

July 25, 2025

Sondra Campbell
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

Subject: **St. Cloud PFAS Investigation Site Sampling Technical Memorandum**
4958 County Road 8 Southeast
St. Cloud, Minnesota 56304
MPCA Site 262120
AECOM Project 60751056

Dear Ms. Campbell,

AECOM Technical Services, Inc. (AECOM) is pleased to submit the results of the per- and polyfluoroalkyl substances (PFAS) investigation activities completed for the above-referenced site (Site) located in St. Cloud, Minnesota.

Project and Site Background

The property consists of an approximately 50-acre parcel identified as parcel 25-00030-1400 by the Sherburne County Assessor's office located approximately 5.5 miles southeast of St. Cloud, Minnesota. The subject property is located northeast of the intersection of 52nd St SE and County Rd 8 SE. The northeast portion of the subject property is developed with a homestead consisting of a single-family home and at least six outbuildings of various sizes including a farm silo. The southwest portion of the subject property is occupied by utility-scale photovoltaic panel solar farm. The northwestern area of the subject property appears to be a grass and tree covered area. A high-voltage utility line crosses the subject property along a southeast-northwest axis.

In 2024, Braun Intertec conducted a groundwater investigation on the subject property and a domestic well sampling and analysis on the subject property and adjoining/nearby properties to assess the presence of potential contaminants including Per- and Polyfluoroalkyl Substances (PFAS). The following is a brief summary their findings:

- The MPCA issued a Notice of Violation (NOV) to Jonny Rooter Sewer and Drain, Inc. (Jonny Rooter) for the land application of wastewater collected from industrial and residential properties to the fields located at the subject property.
- The City of Saint Cloud utilized the southern portion of the subject property to dispose of over one million gallons of wastewater treatment plan (WWTP) biosolids as a soil amendment between 2000 and 2006.
- Fourteen shallow (<5 ft) borings to conduct soil sampling were completed. Various petroleum VOC and Perfluorooctanoic acid (PFOA) were detected in a number of the borings though the results did not exceed Residential/Recreational threshold values.
- Groundwater was encountered less 30 feet below ground surface and the monitored groundwater flow direction was to the south-southwest.
- Concentrations of perfluorooctane sulfonate (PFOS) and PFOA were detected in the four permanent groundwater monitoring wells installed on the subject property.
- Concentration of PFAS compounds were detected in the subject property and sampled adjoining/nearby properties drinking water wells.

Monitoring Well Installation

On May 27-29, 2025, AECOM completed four well installations (MW-5, MW-6, MW-7 and MW-8) which included soil logging and soil sampling, by an AECOM Field Technician, and the use of a hollow-stem auger by subcontractor Thein Well Company. Each monitoring well was installed by advancing the boring up to a maximum depth of 35 ft. below ground surface (bgs). During each well installation, soil was sampled just above the observed water table.

Soil samples were collected in laboratory-provided containers, labeled, packed into coolers with ice, and delivered to the Minneapolis, Minnesota Pace Analytical Services (Pace) laboratory under chain of custody. All analysis was performed at the Pace – Minneapolis, MN laboratory.

Well installation soil samples were analyzed for the following parameters:

- PFAS compounds by EPA Method 1633

The soil analytical lab report from the Pace laboratory is provided in **Appendix C**. Well Logs are included as **Appendix A**. Minnesota Department of Health (MDH) Environmental Well Construction Notification forms and well construction details are provided in **Appendix F**.

Following the completion of each well installation, wells were developed by the drilling subcontractor.

Monitoring Well Sampling

AECOM completed the groundwater sampling at the Site on June 3rd, 2025. **Figure 1** presents the locations of the site monitoring wells. AECOM collected groundwater samples from four of the eight Site wells during the June 2025 sampling event; monitoring wells MW-1, MW-2, MW-3 and MW-4 were not sampled due to an access agreement issue with the property owner. Field measurements including pH, temperature, specific conductivity, ORP, and DO were collected using a flow through cell and a YSI-556 water quality meter at all groundwater locations prior to sampling. Wells were purged via a Monsoon Pro Series pump with HDPE tubing. Groundwater samples were collected once the groundwater stabilization readings indicated well stabilization has been achieved.

Samples were collected in laboratory-provided containers, labeled, packed into coolers with ice, and delivered to the Minneapolis, Minnesota Pace laboratory under chain of custody protocol. All analysis was performed at the Pace – Minneapolis, MN laboratory. Field measurements were recorded on groundwater sampling forms provided in **Appendix B**.

Monitoring well groundwater samples were analyzed for the following parameters:

- PFAS in Water by EPA Method 1633
 - Additionally, as part of Method 1633, Branched, Linear and Total PFAS analysis was completed
- PFAS in Water by EPA Method 1633 TOPS Assay
- Adsorbable Organic Fluorine (AOF)

One duplicate sample, one MS/MSD sample, and one PFAS field blank sample were collected for quality assurance/quality control purposes. Monitoring well analytical results are presented in **Table 1** and **Table 2**. The monitoring well analytical lab report from the Pace laboratory is provided in **Appendix C**.

Domestic Well Sampling

AECOM attempted to collect an outside tap water sample from nine residences with private residential wells in the area surrounding the Site. The list of residential wells AECOM attempted to collect samples from is included in the table below:

Residential Address:	Samples Collected:
1710 54th St. SE St. Cloud, MN 56304	1710-54th-01,
1670 54th St. SE St. Cloud, MN 56304	1670-54th-02, DUP-2
1640 52nd St. SE St. Cloud, MN 56304	1640-52nd-03-House, 1640-52nd-03-Lawn

1833 52nd St SE St. Cloud, MN 56304	1833-52nd-04
5321 county Road 8 SE St. Cloud, MN 56304	5321-County Rd-05
4959 County Road 8 SE St. Cloud, MN 56304	4959-County Rd-06
2053 49th St SE St. Cloud, MN 56304	2053-49th-07
1950 49th St SE St. Cloud, MN 56304	1950-49th-08
1881 49th St. SE St. Cloud, MN 56304	1881-49th-09

The property located at 1640 52nd St. SE had two domestic wells, one for the house and another for the lawn; both were sampled as part of this investigation.

Samples were collected in laboratory-provided containers, labeled, packed into coolers with ice, and delivered to the Minneapolis, Minnesota Pace laboratory under chain of custody. All analysis was performed at the Pace – Minneapolis, MN laboratory.

Domestic groundwater samples were analyzed for the following parameters:

- PFAS in Water by EPA Method 1633
 - Additionally, as part of Method 1633, Branched, Linear and Total PFAS analysis was completed
- PFAS in Water by EPA Method 1633 TOPS Assay

Domestic well analytical results are presented in **Table 3**. The domestic well analytical lab report from the Eurofins laboratory is provided in **Appendix C**.

Sampling Results - Soil Borings

Soil was collected from each of the soil borings from directly above the water table. The depth of the soil samples ranged from 24.5 ft to 25 ft bgs. There were no detections of PFAS compounds above the method detection limit in any of the four soil samples collected. Soil sample results are presented in **Table 1**.

Sampling Results - Monitoring Wells

From the groundwater collected from the Site monitoring wells, exceedances observed above the MDH HRL/HBV are summarized below:

- PFOS was detected above the HRL/HBV of 2.3 nanograms/Liter (ng/L) from samples collected from MW-6 (5.3 ng/L), MW-7 (5.0 ng/L) and MW-8 (3.5 ng/L).
- PFOA was detected above the HRL/HBV of 0.0079 ng/L from samples collected from MW-5 (19 ng/L), MW-6 (55 ng/L), MW-7 (85 ng/L) and MW-8 (49 ng/L).

Results indicate perfluorobutanesulfonic acid (PFBS), perfluorobutanoic acid (PFBA), perfluorohexanesulfonic acid (PFHxS), and perfluorohexanoic acid (PFHxA) were detected in Site monitoring wells below their respective HRLs/HBVs. Detections of perfluoroheptanesulfonic acid (PFHpS), perfluoroheptanoic acid (PFHpA), perfluorononanoic acid (PFNA), perfluoropentanesulfonic acid (PFPeS) and perfluoropentanoic acid (PFPA) were observed in sampled domestic wells, but these compounds currently do not have established HRLs/HBVs.

Monitoring well analytical results are presented in **Table 2**. Only PFAS EPA Method 1633 results are presented in **Table 1**, **Table 2**, and **Table 3**.

Sampling Results - Domestic Wells

From the groundwater collected from the ten domestic wells, exceedances observed above the MDH HRL/HBVs are summarized below:

- PFOS was detected above the HRL/HBV of 2.3 ng/L in samples collected from 1640 52nd St. [Lawn] (19 ng/L), 1670 54th St. (17 ng/L), 1710 54th St. (8.0 ng/L), and 4959 Country Rd. 8 (7.9 ng/L).
- PFOA was detected above the HRL/HBV of 0.0079 ng/L in samples collected from 1640 52nd St. [Lawn] (4.3 ng/L), 1670 54th St. (63 ng/L), 1710 54th St. (1.5 ng/L), 1881 49th St. (1.6 ng/L), 4959 Country Rd. 8 (71 ng/L) and 5321 County Rd. 8 (41 ng/L).

Results indicate PFBS, PFBA, PFHxS, and PFHxA were detected in domestic wells below their respective HRLs/HBVs. Detections of PFHpS, PFHpA, PFNA, PFPeS and PFPA were observed in sampled domestic wells, but these compounds currently do not have established HRLs/HBVs.

Domestic well analytical results are presented in **Table 3**. Only PFAS EPA Method 1633 results are presented in **Table 1**, **Table 2**, and **Table 3**.

Investigation Derived Waste

Soil cuttings were containerized, profiled, and transported off-Site for landfill disposal as non-hazardous waste. All purge water generated from the monitoring wells was containerized, profiled, and transported off-Site for landfill disposal as non-hazardous waste. AECOM assisted with coordination of waste handling and disposal. Soil cuttings and purge water investigation derived waste was picked up by Clean Harbors on June 27, 2025. Waste management and disposal forms are included in **Appendix E**.

Conclusions

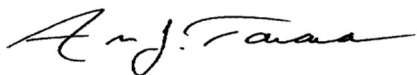
Monitoring well groundwater sampling data indicates that the monitoring well water onsite exceeds regulatory levels for PFOA in all four sampled monitoring wells and PFOS in three monitoring wells. Wells that indicated exceedances are located north, east and south of the Site.

Domestic well sampling data indicates that six of the ten residential wells sampled exceed regulatory levels, with exceedances of both PFOS and PFAS in four of those wells.

Recommendations

Based on the results of the FY25 sampling, AECOM recommends semi-annual sampling of the Site exterior monitoring well network of four installed monitoring wells and continued annual receptor sampling of the residential wells surrounding the site. This sampling plan will track the contaminant plume and continue to monitor any migration of contamination, as well as determine if additional residential wells in the area are impacted. Due to time limitations at the end of FY25, AECOM was unable to complete the PFAS forensic analysis included as part of the original work order, which included branched linear data analysis, principal component analysis (PCA), and hierarchical clustering (R statistical software). It is recommended that the forensic analysis is completed, and if the data set would benefit, use Positive Matrix Factorization (PMF) analysis using EPA PMF 5.0. AECOM recommends the newly installed wells be surveyed in order to obtain all data necessary to accurately confirm groundwater flow direction at the Site.

Kind regards,



Drew Tarara
Project Manager
AECOM
E: andrew.tarara@aecom.com



Nathan Pukal
Project Geologist
AECOM
E: nathan.pukal@aecom.com

Enclosed:

Figure 1 – Site Layout Map

Figure 2 – Residential Well Sampling Map

Table 1 – Analytical Results for PFAS Compounds from Well Installation Soil Samples

Table 2 – Analytical Results for PFAS Compounds from Monitoring Wells

Table 3 – Analytical Results for PFAS Compounds from Domestic Wells

Appendix A – Soil Boring Logs and Field Notes

Appendix B – Groundwater Sampling Information Forms

Appendix C – Laboratory Analytical Reports

Appendix D – Photo Log

Appendix E – Waste Management and Disposal Forms

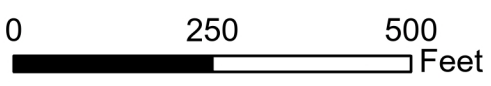
Appendix F – Well and Boring Construction Records

Figures



Figure 1
Wells Installed in FY24 and FY25

St. Cloud PFAS Forensics
Minnesota Pollution Control Agency



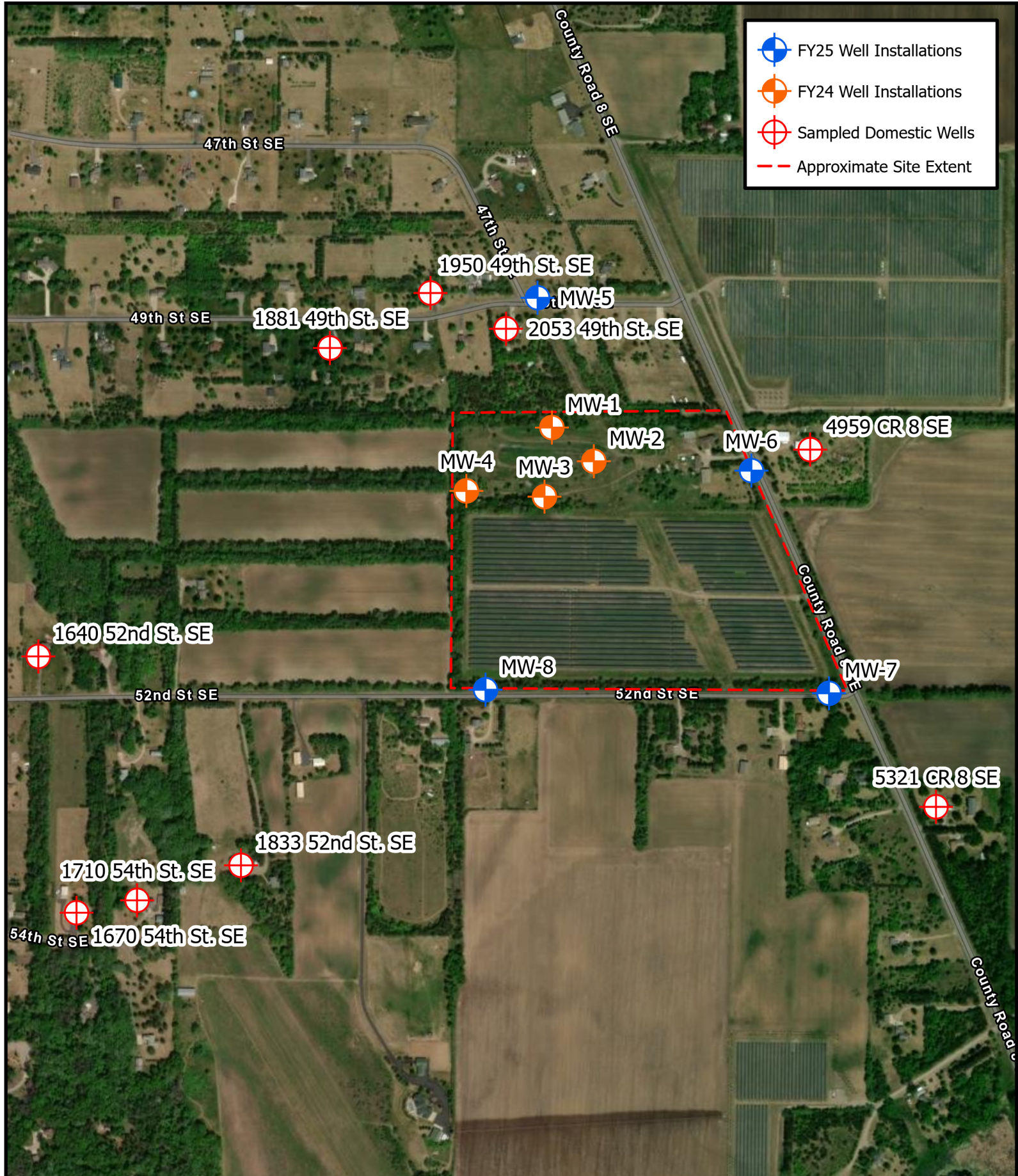
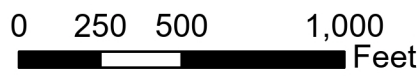


Figure 2
Monitoring and Domestic Wells

St. Cloud PFAS Forensics
Minnesota Pollution Control Agency



Tables

Table 1
Soil Sample Analytical Results- PFAS Compounds
St. Cloud, MN
Minnesota Pollution Control Agency

Sample Location		MW-5	MW-6	MW-7	MW-8
Sample ID		MW5-24.5-052725	MW6-25-052925	MW7-24.5-052825	MW8-25-052825
Sample Depth		25-5'	25'	25-5'	25'
Sample Date		05/27/2025	05/29/2025	05/28/2025	05/28/2025
Compounds	MPCA SRV (ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
11CI-PF3OUdS	NE	< 0.79	< 0.80	< 0.78	< 0.79
3:3 FTCA	NE	< 0.98	< 1.0	< 0.98	< 0.98
4:2 FTS	NE	< 0.79	< 0.80	< 0.78	< 0.79
5:3 FTCA	NE	< 4.9	< 5.0	< 4.9	< 4.9
6:2 FTS	NE	< 0.79	< 0.80	< 0.78	< 0.79
7:3 FTCA	NE	< 4.9	< 5.0	< 4.9	< 4.9
8:2 FTS	NE	< 0.79	< 0.80	< 0.78	< 0.79
9CI-PF3ONS	NE	< 0.79	< 0.80	< 0.78	< 0.79
ADONA	NE	< 0.79	< 0.80	< 0.78	< 0.79
HFPO-DA	970	< 0.79	< 0.80	< 0.78	< 0.79
NEtFOSAA	NE	< 0.20	< 0.20	< 0.20	< 0.20
NEtFOSA	NE	< 0.20	< 0.20	< 0.20	< 0.20
NEtFOSE	NE	< 2.0	< 2.0	< 2.0	< 2.0
NFDHA	NE	< 0.39	< 0.40	< 0.39	< 0.39
NMeFOSAA	NE	< 0.20	< 0.20	< 0.20	< 0.20
NMeFOSA	NE	< 0.20	< 0.20	< 0.20	< 0.20
NMeFOSE	NE	< 2.0	< 2.0	< 2.0	< 2.0
PFBS	14,000	< 0.20	< 0.20	< 0.20	< 0.20
PFDA	0.36	< 0.20	< 0.20	< 0.20	< 0.20
PFHxA	24,000	< 0.20	< 0.20	< 0.20	< 0.20
PFBA	220,000	< 0.79	< 0.80	< 0.78	< 0.79
PFDS	NE	< 0.20	< 0.20	< 0.20	< 0.20
PFDoS	NE	< 0.20	< 0.20	< 0.20	< 0.20
PFEESA	NE	< 0.39	< 0.40	< 0.39	< 0.39
PFHpS	NE	< 0.20	< 0.20	< 0.20	< 0.20
PFMBA	NE	< 0.39	< 0.40	< 0.39	< 0.39
PFMPA	NE	< 0.39	< 0.40	< 0.39	< 0.39
PFNS	NE	< 0.20	< 0.20	< 0.20	< 0.20
PFOSA	NE	< 0.20	< 0.20	< 0.20	< 0.20
PFPeA	NE	< 0.39	< 0.40	< 0.39	< 0.39
PFPeS	NE	< 0.20	< 0.20	< 0.20	< 0.20
PFDoA	NE	< 0.20	< 0.20	< 0.20	< 0.20
PFHpA	NE	< 0.20	< 0.20	< 0.20	< 0.20
PFHxS	0.072*	< 0.20	< 0.20	< 0.20	< 0.20
PFNA	NE	< 0.20	< 0.20	< 0.20	< 0.20
PFOS	8	< 0.20	< 0.20	< 0.20	< 0.20
PFOA	0.86	< 0.20	< 0.20	< 0.20	< 0.20
PFTeDA	NE	< 0.20	< 0.20	< 0.20	< 0.20
PFTTrDA	NE	< 0.20	< 0.20	< 0.20	< 0.20
PFUnA	NE	< 0.20	< 0.20	< 0.20	< 0.20

Notes:

< = Less than Laboratory Reporting Limit

BOLD Text indicates result is above reporting limit

RED TEXT = Concentration exceeds

MPCA = Minnesota Pollution Control Agency

Com-Ind SRVs - Commercial-

Industrial Soil Reference Values

(March 2025)

NE = Not Established

* = Laboratory reporting limit is greater
than established soil standard (Com-
Ind SRV)

µg/kg = micrograms per kilogram

Table 2
Monitoring Wells Analytical Results- PFAS Compounds
St. Cloud, MN
Minnesota Pollution Control Agency

Sample Location		MW-5	MW-6	MW-7	MW-8
Sample ID		MW5-24.5-052725	MW6-25-052925	MW7-24.5-052825	MW8-25-052825
Sample Date		06/03/2025	06/03/2025	06/03/2025	06/03/2025
Compounds	MPCA HRL/HBV (ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)
11CI-PF3OUdS	NE	<0.40	<0.37	<0.37	<0.37
8:2 FTS	NE	<0.79	<0.74	<0.75	<0.74
4:2 FTS	NE	<0.79	<0.74	<0.75	<0.74
6:2 FTS	NE	<0.79	<0.74	<0.75	<0.74
7:3 FTCA	NE	<2.0	<1.8	<1.9	<1.8
5:3 FTCA	NE	<2.2	<2.1	<2.1	<2.1
3:3 FTCA	NE	<0.79	<0.74	<0.75	<0.74
DONA	NE	<0.40	<0.37	<0.37	<0.37
9CI-PF3ONS	NE	<0.40	<0.37	<0.37	<0.37
HFPO-DA	NE	<1.1	<1.0	<1.0	<1.0
NEtFOSA	NE	<0.40	<0.37	<0.37	<0.37
NEtFOSE	NE	<3.2	<2.9	<3.0	<3.0
NEtFOSAA	NE	<0.40	<0.37	<0.37	<0.37
NMeFOSA	NE	<0.40	<0.37	<0.37	<0.37
NMeFOSE	NE	<2.0	<1.8	<1.9	<1.8
NMeFOSAA	NE	<0.40	<0.37	<0.37	<0.37
NFDHA	NE	<0.40	<0.37	<0.37	<0.37
PFEESA	NE	<0.40	<0.37	<0.37	<0.37
PFMPA	NE	<0.40	<0.37	<0.37	<0.37
PFMBA	NE	<0.40	<0.37	<0.37	<0.37
PFBS	100	7.4	11	14	20
PFBA	7,000	28	47	33	21
PFDS	NE	<0.40	<0.37	<0.37	<0.37
PFDA	NE	<0.40	<0.37	<0.37	<0.37
PFDoS	NE	<0.48	<0.44	<0.45	<0.44
PFDoA	NE	<0.40	<0.37	<0.37	<0.37
PFHpS	NE	<0.40	0.60 J	0.69 J	0.38 J
PFHpA	NE	11	19	24	24
PFHxS	47	8.9	15	18	7.3
PFHxA	200	16	25	25	24
PFNS	NE	<0.40	<0.37	<0.37	<0.37
PFNA	NE	0.69 J	<0.37	0.56 J	0.47 J
PFOSA	NE	<0.40	<0.37	<0.37	<0.37
PFOS	2.3	1.8	5.3	5.0	3.5
PFOA	0.0079	19	55	85	49
PFPeS	NE	0.64 J	0.86 J	1.0	0.59
PFPA	NE	17	30	26	22
PFTeDA	NE	<0.40	<0.37	<0.37	<0.37
PFTTrDA	NE	<0.40	<0.37	<0.37	<0.37
PFUnA	NE	<0.40	<0.37	<0.37	<0.37

Notes:

< = Less than Laboratory Reporting Limit

BOLD Text indicates result is above reporting limit

RED TEXT = Concentration exceeds the HRL/HBV

HRL = Health Risk Limit

HBV = Health Based Value

* = Laboratory reporting limit is greater than established groundwater standard (HRL/HBV)

ng/L= Nanograms per liter

Table 3
Domestic Wells Analytical Results- PFAS Compounds
St. Cloud, MN
Minnesota Pollution Control Agency

Sample ID		1640-52nd-03-House	1640-52nd-03-Lawn	1670-54th-02	1710-54th-01	1833-52nd-04	1881-49th-09	1950-49th-08	2053-49th-07	4959-County Rd-06	5321-County Rd-05
Sample Date		06/04/2025	06/04/2025	06/04/2025	06/04/2025	06/04/2025	06/04/2025	06/04/2025	06/04/2025	06/04/2025	06/04/2025
Compounds	MPCA HRL/HBV (ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)
11CI-PF3OUdS	NE	<0.44	<0.39	<0.36	<0.38	<0.38	<0.36	<0.37	<0.37	<0.37	<0.38
8:2 FTS	NE	<0.87	<0.79	<0.72	<0.76	<0.77	<0.73	<0.73	<0.75	<0.75	<0.76
4:2 FTS	NE	<0.87	<0.79	<0.72	<0.76	<0.77	<0.73	<0.73	<0.75	<0.75	<0.76
6:2 FTS	NE	<0.87	<0.79	<0.72	<0.76	<0.77	<0.73	<0.73	<0.75	<0.75	<0.76
7:3 FTCA	NE	<2.2	<2.0	<1.8	<1.9	<1.9	<1.8	<1.8	<1.9	<1.9	<1.9
5:3 FTCA	NE	<2.4	<2.2	<2.0	<2.1	<2.1	<2.0	<2.1	<2.1	<2.1	<2.1
3:3 FTCA	NE	<0.87	<0.79	<0.72	<0.76	<0.77	<0.73	<0.73	<0.75	<0.75	<0.76
DONA	NE	<0.44	<0.39	<0.36	<0.38	<0.38	<0.36	<0.37	<0.37	<0.37	<0.38
9CI-PF3ONS	NE	<0.44	<0.39	<0.36	<0.38	<0.38	<0.36	<0.37	<0.37	<0.37	<0.38
HFPO-DA	NE	<1.2	<1.1	<1.0	<1.1	<1.1	<1.0	<1.0	<1.0	<1.0	<1.1
NEiFOSA	NE	<0.44	<0.39	<0.36	<0.38	<0.38	<0.36	<0.37	<0.37	<0.37	<0.38
NEiFOSE	NE	<3.5	<3.2	<2.9	<3.0	<3.1	<2.9	<2.9	<3.0	<3.0	<3.0
NEiFOSAA	NE	<0.44	<0.39	<0.36	<0.38	<0.38	<0.36	<0.37	<0.37	<0.37	<0.38
NMeFOSA	NE	<0.44	<0.39	<0.36	<0.38	<0.38	<0.36	<0.37	<0.37	<0.37	<0.38
NMeFOSE	NE	<2.2	<2.0	<1.8	<1.9	<1.9	<1.8	<1.8	<1.9	<1.9	<1.9
NMeFOSAA	NE	<0.44	<0.39	<0.36	<0.38	<0.38	<0.36	<0.37	<0.37	<0.37	<0.38
NFDHA	NE	<0.44	<0.39	<0.36	<0.38	<0.38	<0.36	<0.37	<0.37	<0.37	<0.38
PFEESA	NE	<0.44	<0.39	<0.36	<0.38	<0.38	<0.36	<0.37	<0.37	<0.37	<0.38
PFMPA	NE	<0.44	<0.39	<0.36	<0.38	<0.38	<0.36	<0.37	<0.37	<0.37	<0.38
PFMBA	NE	<0.44	<0.39	<0.36	<0.38	<0.38	<0.36	<0.37	<0.37	<0.37	<0.38
PFBS	100	0.53 J	4.5	22	15	1.7	4.3	4.4	0.57 J	11	8.3
PFBA	7,000	3.4 J	13	33	13	6.1	16	18	5.7	49	16
PFDS	NE	<0.44	<0.39	<0.36	<0.38	<0.38	<0.36	<0.37	<0.37	<0.37	<0.38
PFDA	NE	<0.44	<0.39	<0.36	<0.38	<0.38	<0.36	<0.37	<0.37	<0.37	<0.38
PFDoS	NE	<0.52	<0.47	<0.43	<0.45	<0.46	<0.44	<0.44	<0.45	<0.45	<0.45
PFDoA	NE	<0.44	<0.39	<0.36	<0.38	<0.38	<0.36	<0.37	<0.37	<0.37	<0.38
PFFHpS	NE	<0.44	<0.39	1.1 J	<0.38	<0.38	<0.36	<0.37	<0.37	0.88 J	<0.38
PFFHpA	NE	<0.70	3.3	21	3.3	<0.61	2.1	<0.59	<0.60	20	13
PFFHxS	47	<0.70	5.1	17	19	<0.61	1.6	<0.59	<0.60	16	9.6
PFFHxA	200	<0.44	4.8	29	16	<0.38	4.2	1.6	<0.37	26	12
PFNS	NE	<0.44	<0.39	<0.36	<0.38	<0.38	<0.36	<0.37	<0.37	<0.37	<0.38
PFNA	NE	<0.44	<0.39	0.76 J	<0.38	<0.38	<0.36	<0.37	<0.37	0.60 J	<0.38
PFOSA	NE	<0.44	<0.39	<0.36	<0.38	<0.38	<0.36	<0.37	<0.37	<0.37	<0.38
PFOS	2.3	<1.1	19	17	8.0	<1.0	<0.95	<0.96	<0.97	7.9	1.8
PFOA	0.0079	<0.78	4.3	63	1.5	<0.69	1.6	<0.66	<0.67	71	41
PFPeS	NE	<0.44	0.43 J	1.1	9.2	<0.38	0.38 J	<0.37	<0.37	0.85 J	0.65 J
PFPA	NE	<0.52	4.4	32	12	<0.46	4.7	2.5	<0.45	29	11
PFTeDA	NE	<0.44	<0.39	<0.36	<0.38	<0.38	<0.36	<0.37	<0.37	<0.37	<0.38
PFTTrDA	NE	<0.44	<0.39	<0.36	<0.38	<0.38	<0.36	<0.37	<0.37	<0.37	<0.38
PFUnA	NE	<0.44	<0.39	<0.36	<0.38	<0.38	<0.36	<0.37	<0.37	<0.37	<0.38

Notes:

< = Less than the Method Detection Limit

BOLD Text indicates result is above reporting limit

RED TEXT = Concentration exceeds the HRL/HBV

HRL = Health Risk Limit

HBV = Health Based Value

* = Laboratory reporting limit is greater than established groundwater standard (HRL/HBV)

ng/L= Nanograms per liter

J = Result is less than the report limit but greater than or equal to the method detection limit and the concentration is an approximate value

Appendix A

Well Drilling Environmental Boring Logs

CLIENT: MPCA			JOB NO.: 60751036		LOCATION: St. Cloud, MN 52nd St. SE	
PROJECT: St. Cloud PFAS Forensics			DRILLING METHOD: Hollow Stem Auger			BORING NO. MW 8
LOGGED BY: GG		CHECKED BY:	SAMPLING METHOD: Geoprobe tube - Grab			SHEET 2 OF 2
DRILLING CONTR: Thien Well Company						
DRILLER: Greg		EQUIP:	WATER LEVEL 30.41			DRILLING
BORING DEPTH: 35' bgs						
GROUND SURFACE ELEVATION:			TIME 0715			START TIME
DATUM:			DATE 5/29/25			FINISH TIME 1700
COMMENTS:			CASING DEPTH			DATE 5/28/25
UNIQUE ID: 888246						

SAMPLE ID	SAMPLE TYPE	USCS	DEPTH IN FEET	SOIL/ROCK GRAPH	SURFACE CONDITIONS:	
					LITHOLOGIC DESCRIPTION	
SAMPLE TAKEN @ 25' BGS			16		15 - 20 SAA (See previous page) grain size coarser at 20'	
			17			
			18		20 - 25 Sand with gravel, fine to coarse, gravel (13%), 2-5mm, dry, light brown, trace Fe staining, fine (10%), medium (37%), coarse (50%), well sorted subangular to rounded	
			19			
			20			
			21			
			22		25 - 29 SAA	
			23			
			24		Sandy	
			25		29 - 30 Silt, firm, low plasticity, dry, chocolate brown, trace gravel (4%), fine sand (20%), silt (76%)	
SET WELL @ 30' BGS			26		30 - 32 SAA	
			27			
			28		32 - 35 Clay, trace cobbles (2%), very stiff, not plastic, dark grey, dry	
			29			
					REFUSAL @ 35' bgs	

CLIENT: MPCA		JOB NO.: 60751056		LOCATION: St. Cloud, MN	
PROJECT: St. Cloud PFAS Forensics		DRILLING METHOD: Hollow-Stem Auger			BORING NO. MW8
LOGGED BY: GG	CHECKED BY:	SAMPLING METHOD: Geoprobe tube - Grab			SHEET 1 OF 2
DRILLING CONTR.: Thein Well Company					
DRILLER: Greg	EQUIP.: Geoprobe	WATER LEVEL			DRILLING
BORING DEPTH: 35' bgs		TIME			START
GROUND SURFACE ELEVATION:		DATE			FINISH
DATUM:		CASING DEPTH			TIME
COMMENTS:		DATE			DATE
UNIQUE ID: 888246		5/28/25			

SAMPLE ID	SAMPLE TYPE	USCS	DEPTH IN FEET	SOIL/ROCK GRAPH	SURFACE CONDITIONS:
					LITHOLOGIC DESCRIPTION
			1		0-1 Topsoil, trace organics (roots), dark brown
			2		
			3		1-5 Sand, moist, light brown, fine to coarse, well sorted, subangular to subrounded, fine (40%), medium (40%), coarse (20%)
			4		
			5		5-6 SAA
			6		
			7		6-10 Sand, moist, light brown, well sorted, fine to coarse, subangular to subrounded, fine (20%), medium (45%), coarse (35%)
			8		
			9		10-12 SAA
			10		
			11		12-15 Sand with gravel, fine to coarse, gravel (15%) 2-4cm, small cobble @ 13', fine (10%), medium (40%), coarse (35%), subangular to rounded, dry, light brown, some light grey
			12		
			13		
			14		

CLIENT: MPCA		JOB NO.: 60751056	LOCATION: St. Cloud, MN 52nd St. SE	
PROJECT: St. Cloud PFAS Forensics		DRILLING METHOD: Halfw-Stem Auger		BORING NO. MW7
LOGGED BY: GG	CHECKED BY:	SAMPLING METHOD: Geoprobe tube - Grab		SHEET 1 OF 3
DRILLING CONTR: Therion Well Company				
DRILLER: Greg	EQUIP: Geoprobe	WATER LEVEL 27.12		DRILLING
BORING DEPTH: 35' bgs				START TIME 0800
GROUND SURFACE ELEVATION:		TIME 0710	DATE 5/29/25	
DATUM:		DATE 5/29/25	DATE	
COMMENTS: UNIQUE ID: 888247		CASING DEPTH	DATE 5/28/25	

SAMPLE ID	SAMPLE TYPE	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	SURFACE CONDITIONS:
					LITHOLOGIC DESCRIPTION
			1		0-1 Topsoil, trace organics (roots), dark brown
			2		1-5 Sand, well sorted, moist, chocolate brown, trace gravel (3%), fine (27%), medium (50%), coarse (20%), subangular to subrounded
			3		
			4		
			5		5-7 SAA, small cobble @ 7 ft
			6		
			7		7-10 Sand, well sorted, moist, light brown, subangular to subrounded, fine (20%), medium (40%), coarse (40%)
			8		
			9		10-12 SAA
			10		
			11		12-14 Sand with gravel, gravel (15%), well sorted, dry, subangular to rounded, light brown, fine (15%), medium (30%), coarse (40%), gravel: 2cm - 4cm
			12		
			13		14-15 Sand, well sorted, moist, light brown, trace gravel (4%), fine (25%), medium (40%), coarse (31%), subangular to rounded
			14		

CLIENT: MPCA		JOB NO.: 60751056	LOCATION: St. Cloud, MN 52nd St. SE	
PROJECT: St. Cloud PFAS Forensics		DRILLING METHOD: Hollow Stem Auger		BORING NO. MW7
LOGGED BY: GG	CHECKED BY:	SAMPLING METHOD: Geoprobe tube - Grab		SHEET 2 OF 3
DRILLING CONTR.: Therion Well Company				DRILLING
DRILLER: Greg	EQUIP.: Geoprobe	WATER LEVEL		START TIME
BORING DEPTH: 35' bgs	GROUND SURFACE ELEVATION:			FINISH TIME
DATUM:		TIME		DATE
COMMENTS: UNIQUE ID: 888247		DATE		DATE
		CASING DEPTH		

SAMPLE ID	SAMPLE TYPE	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	SURFACE CONDITIONS:
					LITHOLOGIC DESCRIPTION
80% recovery Suspected water table @ 25' 50% recovery			16		15-16 SAA (see previous page)
			17		16-18 Sand, well sorted, light brown, moist, trace gravel (3%), subangular to subrounded, fine (7%), medium (40%), coarse (50%)
			18		
			19		18-20 Sand with gravel, gravel (15%): 2 to 6 cm, fine to coarse sand, subangular to subrounded, light brown, fine (10%), medium (25%), coarse (50%), well sorted, dry
			20		
			21		20-25 SAA, some orange and red coloring
			22		
			23		25-30 Gravel with sand, wet, light brown to orange, gravel - fine (20%), medium (50%), coarse (20%), sand 10% - medium (5%), coarse (5%), subrounded to rounded, small cobble (10 cm) at 30', well sorted
			24		
			25		
			26		
			27		
			28		
			29		

CLIENT: MPCA				JOB NO.: 60751856		LOCATION: St. Cloud, MN 52nd St. SE			
PROJECT: St. Cloud PFAS Forensics				DRILLING METHOD: Hollow - Stem Auger				BORING NO. MW7	
LOGGED BY: GG		CHECKED BY:		SAMPLING METHOD: Geoprobe tube - Grab				SHEET 3 OF 3	
DRILLING CONTR.: Thien Well Company									
DRILLER: Greg		EQUIP.: Geoprobe							
BORING DEPTH: 35' bgs				WATER LEVEL				DRILLING	
GROUND SURFACE ELEVATION:				TIME				START TIME	
DATUM:				DATE				FINISH TIME 1145	
COMMENTS: UNIQUE ID: 888247				CASING DEPTH				DATE 5/28/25	

SAMPLE ID	SAMPLE TYPE	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	SURFACE CONDITIONS:	
					LITHOLOGIC DESCRIPTION	
			31		30-34.5 SAA (see previous page)	
			32		34.5 - 35 Silt, soft, low plasticity, light brown, trace fine sand (3%)	
			33			
			34		E.O.B. NO REFUSAL	
			35		REACHED DEPTH OF 35' BGS	
			36			
			37			
			38			
			39			
			40			
			41			
			42			
			43			
			44			

CLIENT: MPCA		JOB NO.: 60751056	LOCATION: St. Cloud, MN County Rd. 8	
PROJECT: St. Cloud PFAS Forensics		DRILLING METHOD: Hollow-Stem Auger		BORING NO. MW6
LOGGED BY: GG	CHECKED BY:	SAMPLING METHOD: Geoprobe tube - Grab		SHEET 1 OF 3
DRILLING CONTR.: Thien Well Company				
DRILLER: Greg	EQUIP.: Geoprobe	WATER LEVEL 27.50		DRILLING
BORING DEPTH: 35' bgs				START TIME 0800
GROUND SURFACE ELEVATION:		TIME 1100	DATE 5/29/25	
DATUM:		DATE 5/29/25	DATE	
COMMENTS: UNIQUE ID: 888244		CASING DEPTH		

SAMPLE ID	SAMPLE TYPE	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	SURFACE CONDITIONS:
					LITHOLOGIC DESCRIPTION
			1		0-3 Topsoil, trace organics (roots), dark brown
			2		3-4 Sand, trace silt (4%), poorly sorted, fine to medium, fine (80%), medium (16%), chocolate brown, moist, subangular to subrounded
			3		
			4		
			5		4-5 Sand, fine to medium, poorly sorted, moist, chocolate brown, subangular to subrounded, fine (75%), medium (25%)
			6		
			7		
			8		5-6 SAA
			9		
			10		6-7 Sand, fine to coarse, well sorted, moist, light brown, subangular to rounded, fine (15%), medium (50%), coarse (35%)
			11		
			12		7-9.5 Sand, fine to coarse, well sorted, moist, with gravel, subangular to subrounded, gravel (12%), 1-4cm, light brown, fine (10%), medium (40%), coarse (32%)
			13		
			14		



SAMPLE ID	SAMPLE TYPE	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	SURFACE CONDITIONS:
					LITHOLOGIC DESCRIPTION
Per driller's "dove rock" NO RECOVERY 50% Recovery			16		9.5-10 Sand with gravel, gravel (15%) 2-5 cm, moist, light brown, subangular to rounded, fine (10%), medium (30%), coarse (45%), well sorted
			17		
			18		
			19		10-12 Sand, well sorted, moist, light brown, trace gravel (2%), subangular to subrounded, fine (15%), medium (50%), coarse (33%)
			20		
			21		
			22		12-14 Sand with gravel, gravel (10%) 1-4 cm, moist, light brown, well sorted, fine (10%), medium (40%), coarse (40%) subangular to rounded
			23		
			24		14-15 Sand with gravel, gravel (15%) 2-5 cm, moist, light brown, well sorted, subangular to subrounded, fine (10%), medium (35%), coarse (40%)
			25		
		26		15-20 NO RECOVERY. Gr 5/29/25	
		27		20-25 Sand with gravel, gravelly sand, ^{Sandy gravel} gravel (30%), well sorted, dry subangular to rounded, light brown, orange (Fe staining), fine (5%), medium (5%), coarse (30%)	
		28			
		29		25-30 SAA, wet	

CLIENT: MPCA				JOB NO.: 60TS1056		LOCATION: St. Cloud, MN County Rd. 8			
PROJECT: St. Cloud PFAS Forensics				DRILLING METHOD: Hollow-Stem Auger				BORING NO. MW6	
LOGGED BY: GG		CHECKED BY:						SHEET 3 OF 3	
DRILLING CONTR.: Thien Well Company									
DRILLER: Greg		EQUIP.: Geoprobe							
BORING DEPTH: 35' bgs				SAMPLING METHOD: Geoprobe tube - Grab				DRILLING	
GROUND SURFACE ELEVATION:				WATER LEVEL				START TIME	FINISH TIME
DATUM:				TIME					1110
COMMENTS: UNIQUE ID: 888244				DATE				DATE	DATE
				CASING DEPTH					5/29/25

SAMPLE ID	SAMPLE TYPE	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	SURFACE CONDITIONS:	
					LITHOLOGIC DESCRIPTION	
			31		30-35 Gravel with sand, sand (coarse 10%), well sorted, subangular to rounded, light brown, gravel - fine (10%), medium (30%), coarse (50%), well sorted E.O.B. 35' BGS NO REFUSAL	
			32			
			33			
			34			
			35			
			36			
			37			
			38			
			39			
			40			
			41			
			42			
			43			
			44			

CLIENT: MPCA		JOB NO.: 60751956		LOCATION: St. Cloud, MN	
PROJECT: St. Cloud PFAS Forensics		DRILLING METHOD: Hollow Stem Auger			BORING NO. MWS
LOGGED BY: GG	CHECKED BY:	SAMPLING METHOD: Geoprobe tube - grab			SHEET 1 OF 3
DRILLING CONTR.: Thein Well Company					
DRILLER: Greg	EQUIP.: Geoprobe	WATER LEVEL 27.03			START TIME 0950
BORING DEPTH: 35' bgs					TIME 0700
GROUND SURFACE ELEVATION:		DATE 5/27/25			DATE
DATUM:		CASING DEPTH			
COMMENTS: 49th St. SE		UNIQUE ID: 888245		DATE 5/27/25	

SAMPLE ID	SAMPLE TYPE	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	SURFACE CONDITIONS:
					LITHOLOGIC DESCRIPTION
			1		0-2 Topsoil, trace organics, dark brown
			2		2-5 Sand, medium to fine, poorly sorted, subangular to subrounded, medium - 50%, fine - 50%, light brown, dry
			3		
			4		
			5		5-10 Sand, fine to coarse, well sorted, subrounded to rounded, small pebbles (4-5cm) 5%, fine (30%), medium (30%), fine (35%), dry, light brown
			6		
			7		
			8		
			9		
			10		10-11 SAA
			11		11-13 Sand, medium to fine, poorly sorted, subangular to subrounded, medium (20%), fine (80%), dry, light brown
			12		
			13		13-15 Sand with gravel, gravel (15%), well sorted, fine (20%), medium (30%), coarse (35%), dry, light brown
			14		

CLIENT: MPCA		JOB NO.: 60751056		LOCATION: St. Cloud, MN 49th St. SE	
PROJECT: St. Cloud PFAS Forebays		DRILLING METHOD: Hollow-Stem Auger			BORING NO. MW5
LOGGED BY: GG	CHECKED BY:	SAMPLING METHOD: Geoprobe tube - Grab			SHEET 2 OF 3
DRILLING CONTR.: Thien Well Company					
DRILLER: Greg	EQUIP.: Geoprobe	WATER LEVEL			DRILLING
BORING DEPTH: 35' bgs					TIME
GROUND SURFACE ELEVATION:		DATE	DATE	TIME	
DATUM:		CASING DEPTH	DATE		
COMMENTS: UNIQUE ID: 888245					

SAMPLE ID	SAMPLE TYPE	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	SURFACE CONDITIONS:	
					LITHOLOGIC DESCRIPTION	
30% recovery			16		15-20 Sand with gravel, gravel (15%), 4-6 cm in diameter, fine to coarse sand, well sorted, fine (15%), medium (45%), coarse (30%) dry, light brown, subrounded to rounded	
			17			
			18			
			19			
			20			
			21			
			22			
			23			
			24			
			25			
Tube was stuck in auger for 20'-25'. Will attempt different method to reach depth			26		20-25 Sand with gravel, gravel (10%), sand medium to fine, poorly sorted, medium (70%), fine (20%), moist last foot of core, light brown, subangular to subrounded	
			27			
			28			
			29			
			30			
water table around 24.5'			25		25-29 Sand, wet, well sorted, subangular to subrounded, dark brown to light yellow, fine (20%), medium (25%), coarse (60%)	
			26			
			27			
			28			
			29			
70% recovery			29		29-30 Sand, wet, well sorted, subangular to subrounded, light brown, fine (40%), medium (40%), coarse (20%)	
			30			

CLIENT: MPCA		JOB NO.: 60751056		LOCATION: St. Cloud, MN 49th St. SE	
PROJECT: St. Cloud PFAS Forensics		DRILLING METHOD: Hollow-Stem Auger			BORING NO. MWS
LOGGED BY: GG	CHECKED BY:	SAMPLING METHOD: Geoprobe tube - Grab			SHEET 3 OF 3
DRILLING CONTR.: Thien Well Company					
DRILLER: Greg	EQUIP: Geoprobe	WATER LEVEL			DRILLING
BORING DEPTH: 35' bgs					
GROUND SURFACE ELEVATION:		TIME			START TIME
DATUM:		DATE			FINISH TIME
COMMENTS:		CASING DEPTH			DATE
UNIQUE ID: 888245					5/27/25

SAMPLE ID	SAMPLE TYPE	U.S.C.S.	DEPTH IN FEET	SOIL/ROCK GRAPH	SURFACE CONDITIONS:	
					LITHOLOGIC DESCRIPTION	
			31		30-32 Sandy gravel, well sorted, subrounded to rounded, wet, light brown, gravel 75%, fine gravel (25%), medium gravel (25%), coarse gravel (25%), sand: medium (5%), coarse (20%)	
			32		32-33 Sandy silt, silt 80%, moist, brown, medium firm, sand-fine (18%), medium (2%), no plasticity	
			33		33-34.5 Sand, well sorted, wet, fine to coarse, fine (10%), medium (20%), coarse (70%), brown	
			34		34.5-35 Clayey silt, silt (70%), clay (15%), trace coarse sand (5%), moist, brown, firm, low plasticity	
			35		E.O.B. NO REFUSAL	
			36			
			37			
			38			
			39			
			40			
			41			
			42			
			43			
			44			

Appendix B

Groundwater Sampling Forms



WELL SAMPLING INFORMATION FORM

Unique Well Number 888246 Weather: 60°F cloudy
Samplers Charlie B.IIS Project _____
Sample ID number MW-8 Date sampled 6/3/25
Sample ID number (DUP) Dup-1 Sample Time 1615
Sample ID number (MS/MSD) _____ Sample Time (DUP) 0000
Sample Time (MS/MSD) _____
Describe sampling point (including well name) Stick up

MONITORING WELL INFORMATION:

Depth to Water (prior to sampling) = 30.38 feet to c
Date/Time (for initial water level msmt) 6/3/25 1505
DTW (after sampling, hydra only) = _____ feet to c
Date /Time (post-sampling, hydra only) _____
One Well Volume Calculations
[(Water Column Height) × 3.14 × (diameter ÷ 2 ÷ 12)²] × 7.48
Total depth (bot of screen) = 31.80 feet bgs
Water Column Height (tot depth – DTW + 2 ft) = _____ ft
Well diameter = 2 inches
Volume of water in well = _____ gallons
Three Well Volumes = _____ gallons
2-Inch Well: H × 0.16; 4-Inch Well: H × 0.65; 6-Inch Well: H × 1.47

PURGING INFORMATION:

Purging method: Passive _____ Submersible pump X Peristaltic _____ Other _____
Tubing type: HDPE _____ Poly _____ Other _____
At least 3 well volumes evacuated before sampling, totaling _____ gallons
Actual gallons purged prior to sample collection _____ gallons

SAMPLING INFORMATION

Sampling method: Bag _____ Submersible pump X Peristaltic _____ Other _____
Date Hydrasleeve Deployed _____ Date Hydrasleeve Retrieved _____
Other sampling observations (color/odor/etc) _____
Chemical Analysis PFAS TDS Cations/Anions Alkalinity TOC Other (specify below)

FIELD STABILIZATION

Military time	pH	Temp [°C]	Temperature corrected conductance [umhos/cm]	ORP	Dissolved Oxygen	Depth to Water (ft)	Cumulative volume of water removed [gal.]
1535	7.46	14.28	464	202.4	8.18	—	0.05
1540	7.47	15.05	454	163.4	7.97	—	0.10
1545	7.33	12.67	454	149.3	7.81	—	0.20
1550	7.20	12.15	453	134.8	8.27	—	0.30
1555	7.18	11.47	452	118.3	8.44	—	0.40
1600	7.16	11.34	455	105.9	8.23	—	0.50
1605	7.17	11.53	449	101.2	8.49	—	0.60
1610	7.15	11.63	449	100.2	8.51	—	0.70
1615	7.15	11.65	447	99.9	8.51	—	0.80

Sampled

OTHER NOTES (including if hydrasleeve had to be deployed more than once and issues there)

water level below top of pump



WELL SAMPLING INFORMATION FORM

Unique Well Number

988245

Samplers

Charlie B.115

Sample ID number

MW-5

Sample ID number (DUP)

Sample ID number (MS/MSD)

Weather:

57°F cloudy

Project

St. Cloud PFAS Forensics

Date sampled

6/3/25

Sample Time

Sample Time (DUP)

Sample Time (MS/MSD)

Describe sampling point (including well name)

Stick up MW-5

MONITORING WELL INFORMATION:

Depth to Water (prior to sampling) =

27.01

feet to c

Date/Time (for initial water level msmt)

6/3/25 1130

DTW (after sampling, hydra only) =

feet to c

Date /Time (post-sampling, hydra only)

One Well Volume Calculations

$$[(\text{Water Column Height}) \times 3.14 \times (\text{diameter} + 2 + 12)^2] \times 7.48$$

Total depth (bot of screen) =

36.06

feet bgs

Water Column Height (tot depth - DTW + 2 ft) =

ft

Well diameter =

2

inches

Volume of water in well =

gallons

Three Well Volumes =

gallons

2-Inch Well: $H \times 0.16$; 4-Inch Well: $H \times 0.65$; 6-Inch Well: $H \times 1.47$

PURGING INFORMATION:

Purging method:

Passive

Submersible pump

X

Peristaltic

Other

Tubing type:

HDPE

Poly

Other

At least 3 well volumes evacuated before sampling, totaling

gallons

Actual gallons purged prior to sample collection

gallons

SAMPLING INFORMATION

Sampling method:

Bag

Submersible pump

X

Peristaltic

Other

Date Hydrasleeve Deployed

Date Hydrasleeve Retrieved

Other sampling observations (color/odor/etc)

Chemical Analysis

PFAS

TDS

Cations/Anions

Alkalinity

TOC

Other (specify below)

FIELD STABILIZATION

Military time	pH	Temp [°C]	Temperature corrected conductance [umhos/cm]	ORP	Dissolved Oxygen	Depth to Water (ft)	Cumulative volume of water removed [gal.]
1155	6.97	11.31	660	72.6	6.31	27.02	0.5
1200	6.83	11.52	665	93.5	5.79	27.02	0.7
1205	6.91	11.95	660	94.9	5.88	27.02	0.9
1210	6.99	12.10	658	95.9	5.86	27.02	1.1
1215	7.06	12.27	656	98.1	6.07	27.02	1.2
1220	7.07	12.28	656	99.1	6.13	27.02	1.4
1225	7.09	12.36	656	99.9	6.99	27.02	1.5

OTHER NOTES (including if hydrasleeve had to be deployed more than once and issues there)



WELL SAMPLING INFORMATION FORM

Unique Well Number 888244
Samplers Charlie B. HS
Sample ID number MW-6
Sample ID number (DUP) _____
Sample ID number (MS/MSD) _____

Weather: 60°F cloudy
Project _____
Date sampled 6/3/25
Sample Time 1330
Sample Time (DUP) _____
Sample Time (MS/MSD) _____

Describe sampling point (including well name) _____

MONITORING WELL INFORMATION:

Depth to Water (prior to sampling) = 27.45 feet to c
Date/Time (for initial water level msmt) 6/3/25 1300
DTW (after sampling, hydra only) = _____ feet to c
Date /Time (post-sampling, hydra only) _____

One Well Volume Calculations

$[(\text{Water Column Height}) \times 3.14 \times (\text{diameter} \div 2 \div 12)^2] \times 7.48$

Total depth (bot of screen) = 36.18 feet bgs
Water Column Height (tot depth - DTW + 2 ft) = _____ ft
Well diameter = _____ inches
Volume of water in well = _____ gallons
Three Well Volumes = _____ gallons
2-Inch Well: $H \times 0.16$; 4-Inch Well: $H \times 0.65$; 6-Inch Well: $H \times 1.47$

PURGING INFORMATION:

Purging method: Passive _____ Submersible pump X Peristaltic _____ Other _____
Tubing type: HDPE _____ Poly _____ Other _____
At least 3 well volumes evacuated before sampling, totaling _____ gallons
Actual gallons purged prior to sample collection _____ gallons

SAMPLING INFORMATION

Sampling method: Bag _____ Submersible pump X Peristaltic _____ Other _____
Date Hydrasleeve Deployed _____ Date Hydrasleeve Retrieved _____
Other sampling observations (color/odor/etc) _____

Chemical Analysis PFAS TDS Cations/Anions Alkalinity TOC Other (specify below)

FIELD STABILIZATION

Military time	pH	Temp [°C]	Temperature corrected conductance [umhos/cm]	ORP	Dissolved Oxygen	Depth to Water (ft)	Cumulative volume of water removed [gal.]
1305	7.18	11.31	829	168.6	8.55	27.49	0.1
1310	7.13	10.45	825	161.6	8.30	27.50	0.2
1315	7.10	10.64	824	152.6	8.18	27.50	0.3
1320	7.07	10.94	803	149.8	8.01	27.50	0.4
1325	7.04	10.97	809	144.3	8.11	27.50	0.5
1330	7.04	10.98	810	140.4	8.00	27.50	0.6
sampled							

OTHER NOTES (including if hydrasleeve had to be deployed more than once and issues there)



WELL SAMPLING INFORMATION FORM

Unique Well Number 888 247 Weather: 60°F cloudy
Samplers Charlie B. HS Project _____
Sample ID number MW-7 Date sampled 6/13/25
Sample ID number (DUP) _____ Sample Time 1440
Sample ID number (MS/MSD) _____ Sample Time (DUP) _____
Sample Time (MS/MSD) _____

Describe sampling point (including well name) _____

MONITORING WELL INFORMATION:

Depth to Water (prior to sampling) = 27.10 feet to c
Date/Time (for initial water level msmt) 6/13/25 1355
DTW (after sampling, hydra only) = _____ feet to c
Date /Time (post-sampling, hydra only) _____
One Well Volume Calculations
[(Water Column Height) × 3.14 × (diameter ÷ 2 ÷ 12)²] × 7.48
Total depth (bot of screen) = 36.43 feet bgs
Water Column Height (tot depth – DTW + 2 ft) = _____ ft
Well diameter = 2 inches
Volume of water in well = _____ gallons
Three Well Volumes = _____ gallons
2-Inch Well: H × 0.16; 4-Inch Well: H × 0.65; 6-Inch Well: H × 1.47

PURGING INFORMATION:

Purging method: Passive _____ Submersible pump X Peristaltic _____ Other _____
Tubing type: HDPE _____ Poly _____ Other _____
At least 3 well volumes evacuated before sampling, totaling _____ gallons
Actual gallons purged prior to sample collection _____ gallons

SAMPLING INFORMATION

Sampling method: Bag _____ Submersible pump X Peristaltic _____ Other _____
Date Hydrasleeve Deployed _____ Date Hydrasleeve Retrieved _____
Other sampling observations (color/odor/etc) _____

Chemical Analysis PFAS TDS Cations/Anions Alkalinity TOC Other (specify below)

FIELD STABILIZATION

Military time	pH	Temp [°C]	Temperature corrected conductance [umhos/cm]	ORP	Dissolved Oxygen	Depth to Water (ft)	Cumulative volume of water removed [gal.]
1400	7.36	12.71	773	222.4	9.12	27.11	0.1
1405	7.21	11.91	770	223.8	8.63	27.13	0.2
1410	7.18	11.40	767	216.8	8.47	27.13	0.3
1415	7.13	11.70	767	204.4	8.29	27.13	0.4
1420	7.10	11.61	765	192.9	8.19	27.13	0.5
1425	7.08	11.90	765	180.3	8.11	27.13	0.6
1430	7.07	11.71	767	166.0	8.05	27.13	0.7
1435	7.06	11.91	768	157.7	7.94	27.13	0.8
1440	7.05	11.87	768	161.1	7.86	27.13	0.9

Sampled

OTHER NOTES (including if hydrasleeve had to be deployed more than once and issues there)

Appendix C

Laboratory Analytical Reports



ANALYTICAL REPORT

PREPARED FOR

Attn: Nathan Pukal
AECOM
800 LaSalle Avenue
Suite 500
Minneapolis, Minnesota 55402

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JOB DESCRIPTION

PFAS TOP ASSAY

JOB NUMBER

410-226305-1

Eurofins Lancaster Laboratories Environment Testing, LLC

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Authorized for release by
Nicole Brown, Project Manager
Nicole.Brown@et.eurofinsus.com
(717)471-3265

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Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
 - Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



Table of Contents

Cover Page 1

Table of Contents 4

Definitions/Glossary 5

Case Narrative 6

Detection Summary 7

Client Sample Results 25

Surrogate Summary 135

Isotope Dilution Summary 136

QC Sample Results 144

QC Association Summary 169

Lab Chronicle 174

Certification Summary 180

Method Summary 181

Sample Summary 182

Chain of Custody 183

Receipt Checklists 193

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

Definitions/Glossary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
cn	Refer to Case Narrative for further detail
I	Value is EMPC (estimated maximum possible concentration).
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: AECOM
Project: PFAS TOP ASSAY

Job ID: 410-226305-1

Job ID: 410-226305-1

Eurofins Lancaster Laboratories Environment

Job Narrative 410-226305-1

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 6/7/2025 10:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.3°C and 3.4°C.

LCMS

Method 1633_BLT: Analyte Total PFNA was marked as non-detect for sample 4959-County Rd-06 (410-226305-1) due to a detection below RL and failing ion ratio.

Method 1633_BLT: The transition mass ratio for Total PFHxS in sample 5321-County Rd-05 (410-226305-11) in analytical batch 410-665837 was outside of the established ratio limits. However, analyst judgment was used to positively identify the analyte. The analyte is flagged appropriately to identify this exceedance.

Method 1633_BLT: The transition mass ratio for Total PFOS in sample MW-6 (410-226305-16) in analytical batch 410-665837 was outside of the established ratio limits. However, analyst judgment was used to positively identify the analyte. The analyte is flagged appropriately to identify this exceedance.

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

PFAS

Method 1633_Final - Pre-Treatment: The transition mass ratio for Perfluorooctanesulfonic acid (PFOS) in sample 4959-County Rd-06 (410-226305-1) in analytical batch 410-656521 was outside of the established ratio limits. However, analyst judgment was used to positively identify the analyte. The analyte is flagged appropriately to identify this exceedance.

Method 1633_Final - Pre-Treatment: The labeled isotopes ¹³C₂-PFTeDA are outside QC acceptance limits. Since the recovery in sample MW-5 (410-226305-15) is greater than 5%, and the signal to noise ratio is greater than 10:1, the data is reported.

Method 1633_Final - Pre-Treatment: The transition mass ratio for Perfluorooctanesulfonic acid (PFOS) in sample 5321-County Rd-05 (410-226305-11), MW-5 (410-226305-15), MW-6 (410-226305-16) and MW-7 (410-226305-17) in analytical batch 410-656521 was outside of the established ratio limits. However, analyst judgment was used to positively identify the analyte. The analyte is flagged appropriately to identify this exceedance.

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

Detection Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 4959-County Rd-06

Lab Sample ID: 410-226305-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	60		20	5.5	ng/L	1			1633 TOPS	Post-Treatment
Perfluoropentanoic acid (PFPA)	41		10	3.0	ng/L	1			1633 TOPS	Post-Treatment
Perfluorohexanoic acid (PFHxA)	40		10	2.5	ng/L	1			1633 TOPS	Post-Treatment
Perfluoroheptanoic acid (PFHpA)	52		10	4.0	ng/L	1			1633 TOPS	Post-Treatment
Perfluorooctanoic acid (PFOA)	100		10	4.5	ng/L	1			1633 TOPS	Post-Treatment
Perfluorononanoic acid (PFNA)	10		10	2.5	ng/L	1			1633 TOPS	Post-Treatment
Perfluorobutanesulfonic acid (PFBS)	12		10	2.5	ng/L	1			1633 TOPS	Post-Treatment
Perfluorohexanesulfonic acid (PFHxS)	17		10	4.0	ng/L	1			1633 TOPS	Post-Treatment
Perfluorooctanesulfonic acid (PFOS)	10	I	10	6.5	ng/L	1			1633 TOPS	Post-Treatment
Perfluorobutanoic acid (PFBA)	44		2.9	0.79	ng/L	1			1633_BLT	Total/NA
Perfluoropentanoic acid (PFPeA)	24		1.4	0.43	ng/L	1			1633_BLT	Total/NA
Perfluorohexanoic acid (PFHxA)	22		1.4	0.36	ng/L	1			1633_BLT	Total/NA
Perfluoroheptanoic acid (PFHpA)	17		1.4	0.58	ng/L	1			1633_BLT	Total/NA
Perfluorobutanesulfonic acid (PFBS)	9.6		1.4	0.36	ng/L	1			1633_BLT	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.74	J	1.4	0.36	ng/L	1			1633_BLT	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.85	J	1.4	0.36	ng/L	1			1633_BLT	Total/NA
Br-Perfluorooctanoic acid (Br-PFOA)	3.9		1.4	0.65	ng/L	1			1633_BLT	Total/NA
L-Perfluorooctanoic acid (L-PFOA)	49		1.4	0.65	ng/L	1			1633_BLT	Total/NA
Total PFOA	53		1.4	0.36	ng/L	1			1633_BLT	Total/NA
L-Perfluorononanoic acid (L-PFNA)	0.50	J I	1.4	0.36	ng/L	1			1633_BLT	Total/NA
Total PFNA	0.68	J I cn	1.4	0.36	ng/L	1			1633_BLT	Total/NA
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	1.2	J	1.4	0.58	ng/L	1			1633_BLT	Total/NA
L-Perfluorohexanesulfonic acid (L-PFHxS)	12		1.4	0.58	ng/L	1			1633_BLT	Total/NA
Total PFHxS	13		1.4	0.58	ng/L	1			1633_BLT	Total/NA
Br-Perfluorooctanesulfonic acid (PFOS)	6.4		1.4	0.36	ng/L	1			1633_BLT	Total/NA
Total PFOS	7.1		1.4	0.36	ng/L	1			1633_BLT	Total/NA
Perfluorobutanoic acid (PFBA)	49		3.0	0.82	ng/L	1			1633	Pre-Treatment
Perfluoropentanoic acid (PFPA)	29		1.5	0.45	ng/L	1			1633	Pre-Treatment
Perfluorohexanoic acid (PFHxA)	26		1.5	0.37	ng/L	1			1633	Pre-Treatment
Perfluoroheptanoic acid (PFHpA)	20		1.5	0.60	ng/L	1			1633	Pre-Treatment
Perfluorooctanoic acid (PFOA)	71		1.5	0.67	ng/L	1			1633	Pre-Treatment
Perfluorononanoic acid (PFNA)	0.60	J	1.5	0.37	ng/L	1			1633	Pre-Treatment
Perfluorobutanesulfonic acid (PFBS)	11		1.5	0.37	ng/L	1			1633	Pre-Treatment
Perfluoropentanesulfonic acid (PFPeS)	0.85	J	1.5	0.37	ng/L	1			1633	Pre-Treatment

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 4959-County Rd-06 (Continued)

Lab Sample ID: 410-226305-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	16		1.5	0.60	ng/L	1		1633	Pre-Treatment
Perfluoroheptanesulfonic acid (PFHpS)	0.88	J	1.5	0.37	ng/L	1		1633	Pre-Treatment
Perfluorooctanesulfonic acid (PFOS)	7.9	I cn	1.5	0.97	ng/L	1		1633	Pre-Treatment
Total PFCA	110				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorobutanoic acid (PFBA)	11				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoroheptanoic acid (PFHpA)	32				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorohexanoic acid (PFHxA)	14				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorononanoic acid (PFNA)	9.7				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorooctanoic acid (PFOA)	31				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoropentanoic acid (PFPA)	12				ng/L	1		Total PFCA-Dif	Total/NA
Total PFCA	200	J	500	0.20	ng/L	1		Total PFCA-Sum	Pre-Treatment
Total PFCA	300	J	500	0.20	ng/L	1		Total PFCA-Sum	Post-Treatment

Client Sample ID: 2053-49th-07

Lab Sample ID: 410-226305-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPA)	8.9	J	10	3.0	ng/L	1		1633 TOPS	Post-Treatment
Perfluorohexanoic acid (PFHxA)	16		10	2.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluoroheptanoic acid (PFHpA)	27		10	4.0	ng/L	1		1633 TOPS	Post-Treatment
Perfluorooctanoic acid (PFOA)	23		10	4.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluorononanoic acid (PFNA)	11		10	2.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluorobutanoic acid (PFBA)	5.0		3.0	0.84	ng/L	1		1633_BLT	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.53	J	1.5	0.38	ng/L	1		1633_BLT	Total/NA
Perfluorobutanoic acid (PFBA)	5.7		3.0	0.82	ng/L	1		1633	Pre-Treatment
Perfluorobutanesulfonic acid (PFBS)	0.57	J	1.5	0.37	ng/L	1		1633	Pre-Treatment
Total PFCA	80				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorobutanoic acid (PFBA)	0.00				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoroheptanoic acid (PFHpA)	27				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorohexanoic acid (PFHxA)	16				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorononanoic acid (PFNA)	11				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorooctanoic acid (PFOA)	23				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoropentanoic acid (PFPA)	8.9				ng/L	1		Total PFCA-Dif	Total/NA
Total PFCA	5.7	J	500	0.20	ng/L	1		Total PFCA-Sum	Pre-Treatment
Total PFCA	86	J	500	0.20	ng/L	1		Total PFCA-Sum	Post-Treatment

Client Sample ID: 1950-49th-08

Lab Sample ID: 410-226305-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPA)	8.2	J	9.8	3.0	ng/L	1		1633 TOPS	Post-Treatment
Perfluorohexanoic acid (PFHxA)	10		9.8	2.5	ng/L	1		1633 TOPS	Post-Treatment

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1950-49th-08 (Continued)

Lab Sample ID: 410-226305-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	16		9.8	3.9	ng/L	1		1633 TOPS	Post-Treatment
Perfluorooctanoic acid (PFOA)	14		9.8	4.4	ng/L	1		1633 TOPS	Post-Treatment
Perfluorobutanesulfonic acid (PFBS)	4.5	J	9.8	2.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluorobutanoic acid (PFBA)	17		2.8	0.77	ng/L	1		1633_BLT	Total/NA
Perfluoropentanoic acid (PFPeA)	2.0		1.4	0.42	ng/L	1		1633_BLT	Total/NA
Perfluorohexanoic acid (PFHxA)	1.2	J	1.4	0.35	ng/L	1		1633_BLT	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.5		1.4	0.35	ng/L	1		1633_BLT	Total/NA
Perfluorobutanoic acid (PFBA)	18		2.9	0.81	ng/L	1		1633	Pre-Treatment
Perfluoropentanoic acid (PFPA)	2.5		1.5	0.44	ng/L	1		1633	Pre-Treatment
Perfluorohexanoic acid (PFHxA)	1.6		1.5	0.37	ng/L	1		1633	Pre-Treatment
Perfluorobutanesulfonic acid (PFBS)	4.4		1.5	0.37	ng/L	1		1633	Pre-Treatment
Total PFCA	26				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorobutanoic acid (PFBA)	0.00				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoroheptanoic acid (PFHpA)	16				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorohexanoic acid (PFHxA)	8.6				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorononanoic acid (PFNA)	0.00				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorooctanoic acid (PFOA)	14				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoropentanoic acid (PFPA)	5.7				ng/L	1		Total PFCA-Dif	Total/NA
Total PFCA	22	J	500	0.20	ng/L	1		Total PFCA-Sum	Pre-Treatment
Total PFCA	48	J	500	0.20	ng/L	1		Total PFCA-Sum	Post-Treatment

Client Sample ID: 1881-49th-09

Lab Sample ID: 410-226305-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	22		20	5.4	ng/L	1		1633 TOPS	Post-Treatment
Perfluoropentanoic acid (PFPA)	9.8	J	9.9	3.0	ng/L	1		1633 TOPS	Post-Treatment
Perfluorohexanoic acid (PFHxA)	12		9.9	2.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluoroheptanoic acid (PFHpA)	15		9.9	4.0	ng/L	1		1633 TOPS	Post-Treatment
Perfluorooctanoic acid (PFOA)	16		9.9	4.4	ng/L	1		1633 TOPS	Post-Treatment
Perfluorobutanesulfonic acid (PFBS)	4.7	J	9.9	2.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluorohexanesulfonic acid (PFHxS)	13		9.9	4.0	ng/L	1		1633 TOPS	Post-Treatment
Perfluorooctanesulfonic acid (PFOS)	37		9.9	6.4	ng/L	1		1633 TOPS	Post-Treatment
Perfluorobutanoic acid (PFBA)	14		2.9	0.81	ng/L	1		1633_BLT	Total/NA
Perfluoropentanoic acid (PFPeA)	3.9		1.5	0.44	ng/L	1		1633_BLT	Total/NA
Perfluorohexanoic acid (PFHxA)	3.3		1.5	0.37	ng/L	1		1633_BLT	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.9		1.5	0.59	ng/L	1		1633_BLT	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.7		1.5	0.37	ng/L	1		1633_BLT	Total/NA
L-Perfluorooctanoic acid (L-PFOA)	0.91	J	1.5	0.66	ng/L	1		1633_BLT	Total/NA
Total PFOA	1.5		1.5	0.37	ng/L	1		1633_BLT	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1881-49th-09 (Continued)

Lab Sample ID: 410-226305-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
L-Perfluorohexanesulfonic acid (L-PFHxS)	1.2	J	1.5	0.59	ng/L		1		1633_BLT	Total/NA
Total PFHxS	1.5		1.5	0.59	ng/L		1		1633_BLT	Total/NA
Perfluorobutanoic acid (PFBA)	16		2.9	0.80	ng/L		1		1633	Pre-Treatment
Perfluoropentanoic acid (PFPA)	4.7		1.5	0.44	ng/L		1		1633	Pre-Treatment
Perfluorohexanoic acid (PFHxA)	4.2		1.5	0.36	ng/L		1		1633	Pre-Treatment
Perfluoroheptanoic acid (PFHpA)	2.1		1.5	0.58	ng/L		1		1633	Pre-Treatment
Perfluorooctanoic acid (PFOA)	1.6		1.5	0.65	ng/L		1		1633	Pre-Treatment
Perfluorobutanesulfonic acid (PFBS)	4.3		1.5	0.36	ng/L		1		1633	Pre-Treatment
Perfluoropentanesulfonic acid (PFPeS)	0.38	J	1.5	0.36	ng/L		1		1633	Pre-Treatment
Perfluorohexanesulfonic acid (PFHxS)	1.6		1.5	0.58	ng/L		1		1633	Pre-Treatment
Total PFCA	46				ng/L		1		Total PFCA-Dif	Total/NA
Perfluorobutanoic acid (PFBA)	6.1				ng/L		1		Total PFCA-Dif	Total/NA
Perfluoroheptanoic acid (PFHpA)	13				ng/L		1		Total PFCA-Dif	Total/NA
Perfluorohexanoic acid (PFHxA)	8.3				ng/L		1		Total PFCA-Dif	Total/NA
Perfluorononanoic acid (PFNA)	0.00				ng/L		1		Total PFCA-Dif	Total/NA
Perfluorooctanoic acid (PFOA)	15				ng/L		1		Total PFCA-Dif	Total/NA
Perfluoropentanoic acid (PFPA)	5.1				ng/L		1		Total PFCA-Dif	Total/NA
Total PFCA	29	J	500	0.20	ng/L		1		Total PFCA-Sum	Pre-Treatment
Total PFCA	75	J	500	0.20	ng/L		1		Total PFCA-Sum	Post-Treatment

Client Sample ID: DUP-02

Lab Sample ID: 410-226305-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	39		20	5.5	ng/L		1		1633 TOPS	Post-Treatment
Perfluoropentanoic acid (PFPA)	37		10	3.0	ng/L		1		1633 TOPS	Post-Treatment
Perfluorohexanoic acid (PFHxA)	35		10	2.5	ng/L		1		1633 TOPS	Post-Treatment
Perfluoroheptanoic acid (PFHpA)	28		10	4.0	ng/L		1		1633 TOPS	Post-Treatment
Perfluorooctanoic acid (PFOA)	73		10	4.5	ng/L		1		1633 TOPS	Post-Treatment
Perfluorobutanesulfonic acid (PFBS)	22		10	2.5	ng/L		1		1633 TOPS	Post-Treatment
Perfluorohexanesulfonic acid (PFHxS)	22		10	4.0	ng/L		1		1633 TOPS	Post-Treatment
Perfluorooctanesulfonic acid (PFOS)	52		10	6.5	ng/L		1		1633 TOPS	Post-Treatment
Perfluorobutanoic acid (PFBA)	30		3.1	0.84	ng/L		1		1633_BLT	Total/NA
Perfluoropentanoic acid (PFPeA)	29		1.5	0.46	ng/L		1		1633_BLT	Total/NA
Perfluorohexanoic acid (PFHxA)	26		1.5	0.38	ng/L		1		1633_BLT	Total/NA
Perfluoroheptanoic acid (PFHpA)	18		1.5	0.61	ng/L		1		1633_BLT	Total/NA
Perfluorobutanesulfonic acid (PFBS)	19		1.5	0.38	ng/L		1		1633_BLT	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: DUP-02 (Continued)

Lab Sample ID: 410-226305-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanesulfonic acid (PFPeS)	1.1	J	1.5	0.38	ng/L	1		1633_BLT	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.84	J	1.5	0.38	ng/L	1		1633_BLT	Total/NA
Br-Perfluorooctanoic acid (Br-PFOA)	3.7		1.5	0.69	ng/L	1		1633_BLT	Total/NA
L-Perfluorooctanoic acid (L-PFOA)	45		1.5	0.69	ng/L	1		1633_BLT	Total/NA
Total PFOA	49		1.5	0.38	ng/L	1		1633_BLT	Total/NA
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	1.4	J	1.5	0.61	ng/L	1		1633_BLT	Total/NA
L-Perfluorohexanesulfonic acid (L-PFHxS)	11		1.5	0.61	ng/L	1		1633_BLT	Total/NA
Total PFHxS	12		1.5	0.61	ng/L	1		1633_BLT	Total/NA
Br-Perfluorooctanesulfonic acid (PFOS)	4.2		1.5	0.38	ng/L	1		1633_BLT	Total/NA
L-Perfluorooctanesulfonic acid (PFOS)	2.4		1.5	1.0	ng/L	1		1633_BLT	Total/NA
Total PFOS	6.6		1.5	0.38	ng/L	1		1633_BLT	Total/NA
Perfluorobutanoic acid (PFBA)	32		3.0	0.83	ng/L	1		1633	Pre-Treatment
Perfluoropentanoic acid (PFPA)	32		1.5	0.45	ng/L	1		1633	Pre-Treatment
Perfluorohexanoic acid (PFHxA)	28		1.5	0.38	ng/L	1		1633	Pre-Treatment
Perfluoroheptanoic acid (PFHpA)	20		1.5	0.60	ng/L	1		1633	Pre-Treatment
Perfluorooctanoic acid (PFOA)	62		1.5	0.68	ng/L	1		1633	Pre-Treatment
Perfluorononanoic acid (PFNA)	0.67	J	1.5	0.38	ng/L	1		1633	Pre-Treatment
Perfluorobutanesulfonic acid (PFBS)	22		1.5	0.38	ng/L	1		1633	Pre-Treatment
Perfluoropentanesulfonic acid (PFPeS)	1.2	J	1.5	0.38	ng/L	1		1633	Pre-Treatment
Perfluorohexanesulfonic acid (PFHxS)	16		1.5	0.60	ng/L	1		1633	Pre-Treatment
Perfluoroheptanesulfonic acid (PFHpS)	0.97	J	1.5	0.38	ng/L	1		1633	Pre-Treatment
Perfluorooctanesulfonic acid (PFOS)	18		1.5	0.98	ng/L	1		1633	Pre-Treatment
Total PFCA	37				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorobutanoic acid (PFBA)	6.6				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoroheptanoic acid (PFHpA)	7.9				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorohexanoic acid (PFHxA)	7.2				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorononanoic acid (PFNA)	0.00				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorooctanoic acid (PFOA)	11				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoropentanoic acid (PFPA)	4.9				ng/L	1		Total PFCA-Dif	Total/NA
Total PFCA	170	J	500	0.20	ng/L	1		Total PFCA-Sum	Pre-Treatment
Total PFCA	210	J	500	0.20	ng/L	1		Total PFCA-Sum	Post-Treatment

Client Sample ID: 1710-54th-01

Lab Sample ID: 410-226305-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPA)	19		10	3.0	ng/L	1		1633 TOPS	Post-Treatment

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1710-54th-01 (Continued)

Lab Sample ID: 410-226305-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	24		10	2.5	ng/L	1			1633 TOPS	Post-Treatment
Perfluoroheptanoic acid (PFHpA)	12		10	4.0	ng/L	1			1633 TOPS	Post-Treatment
Perfluorooctanoic acid (PFOA)	11		10	4.5	ng/L	1			1633 TOPS	Post-Treatment
Perfluorobutanesulfonic acid (PFBS)	15		10	2.5	ng/L	1			1633 TOPS	Post-Treatment
Perfluoropentanesulfonic acid (PFPeS)	12		10	2.5	ng/L	1			1633 TOPS	Post-Treatment
Perfluorohexanesulfonic acid (PFHxS)	31		10	4.0	ng/L	1			1633 TOPS	Post-Treatment
Perfluorooctanesulfonic acid (PFOS)	45		10	6.5	ng/L	1			1633 TOPS	Post-Treatment
Perfluorobutanoic acid (PFBA)	12		3.2	0.87	ng/L	1			1633_BLT	Total/NA
Perfluoropentanoic acid (PFPeA)	11		1.6	0.48	ng/L	1			1633_BLT	Total/NA
Perfluorohexanoic acid (PFHxA)	13		1.6	0.40	ng/L	1			1633_BLT	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.9		1.6	0.63	ng/L	1			1633_BLT	Total/NA
Perfluorobutanesulfonic acid (PFBS)	14		1.6	0.40	ng/L	1			1633_BLT	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	8.9		1.6	0.40	ng/L	1			1633_BLT	Total/NA
L-Perfluorooctanoic acid (L-PFOA)	0.89	J	1.6	0.71	ng/L	1			1633_BLT	Total/NA
Total PFOA	1.4	J	1.6	0.40	ng/L	1			1633_BLT	Total/NA
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	4.7		1.6	0.63	ng/L	1			1633_BLT	Total/NA
L-Perfluorohexanesulfonic acid (L-PFHxS)	11		1.6	0.63	ng/L	1			1633_BLT	Total/NA
Total PFHxS	16		1.6	0.63	ng/L	1			1633_BLT	Total/NA
Perfluorobutanoic acid (PFBA)	13		3.0	0.83	ng/L	1			1633	Pre-Treatment
Perfluoropentanoic acid (PFPA)	12		1.5	0.45	ng/L	1			1633	Pre-Treatment
Perfluorohexanoic acid (PFHxA)	16		1.5	0.38	ng/L	1			1633	Pre-Treatment
Perfluoroheptanoic acid (PFHpA)	3.3		1.5	0.60	ng/L	1			1633	Pre-Treatment
Perfluorooctanoic acid (PFOA)	1.5		1.5	0.68	ng/L	1			1633	Pre-Treatment
Perfluorobutanesulfonic acid (PFBS)	15		1.5	0.38	ng/L	1			1633	Pre-Treatment
Perfluoropentanesulfonic acid (PFPeS)	9.2		1.5	0.38	ng/L	1			1633	Pre-Treatment
Perfluorohexanesulfonic acid (PFHxS)	19		1.5	0.60	ng/L	1			1633	Pre-Treatment
Perfluorooctanesulfonic acid (PFOS)	8.0		1.5	0.98	ng/L	1			1633	Pre-Treatment
Total PFCA	20				ng/L	1			Total PFCA-Dif	Total/NA
Perfluorobutanoic acid (PFBA)	0.00				ng/L	1			Total PFCA-Dif	Total/NA
Perfluoroheptanoic acid (PFHpA)	8.6				ng/L	1			Total PFCA-Dif	Total/NA
Perfluorohexanoic acid (PFHxA)	8.1				ng/L	1			Total PFCA-Dif	Total/NA
Perfluorononanoic acid (PFNA)	0.00				ng/L	1			Total PFCA-Dif	Total/NA
Perfluorooctanoic acid (PFOA)	9.4				ng/L	1			Total PFCA-Dif	Total/NA
Perfluoropentanoic acid (PFPA)	7.2				ng/L	1			Total PFCA-Dif	Total/NA
Total PFCA	46	J	500	0.20	ng/L	1			Total PFCA-Sum	Pre-Treatment

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1710-54th-01 (Continued)

Lab Sample ID: 410-226305-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total PFCA	66	J	500	0.20	ng/L	1		Total PFCA-Sum	Post-Treatment

Client Sample ID: 1670-54th-02

Lab Sample ID: 410-226305-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	39		20	5.4	ng/L	1		1633 TOPS	Post-Treatment
Perfluoropentanoic acid (PFPA)	36		9.8	2.9	ng/L	1		1633 TOPS	Post-Treatment
Perfluorohexanoic acid (PFHxA)	32		9.8	2.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluoroheptanoic acid (PFHpA)	26		9.8	3.9	ng/L	1		1633 TOPS	Post-Treatment
Perfluorooctanoic acid (PFOA)	74		9.8	4.4	ng/L	1		1633 TOPS	Post-Treatment
Perfluorobutanesulfonic acid (PFBS)	23		9.8	2.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluorohexanesulfonic acid (PFHxS)	19		9.8	3.9	ng/L	1		1633 TOPS	Post-Treatment
Perfluorooctanesulfonic acid (PFOS)	47		9.8	6.4	ng/L	1		1633 TOPS	Post-Treatment
Perfluorobutanoic acid (PFBA)	28		2.9	0.81	ng/L	1		1633_BLT	Total/NA
Perfluoropentanoic acid (PFPeA)	25		1.5	0.44	ng/L	1		1633_BLT	Total/NA
Perfluorohexanoic acid (PFHxA)	23		1.5	0.37	ng/L	1		1633_BLT	Total/NA
Perfluoroheptanoic acid (PFHpA)	17		1.5	0.59	ng/L	1		1633_BLT	Total/NA
Perfluorobutanesulfonic acid (PFBS)	18		1.5	0.37	ng/L	1		1633_BLT	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.81	J	1.5	0.37	ng/L	1		1633_BLT	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.79	J	1.5	0.37	ng/L	1		1633_BLT	Total/NA
Br-Perfluorooctanoic acid (Br-PFOA)	3.7		1.5	0.66	ng/L	1		1633_BLT	Total/NA
L-Perfluorooctanoic acid (L-PFOA)	41		1.5	0.66	ng/L	1		1633_BLT	Total/NA
Total PFOA	44		1.5	0.37	ng/L	1		1633_BLT	Total/NA
L-Perfluorononanoic acid (L-PFNA)	0.50	J	1.5	0.37	ng/L	1		1633_BLT	Total/NA
Total PFNA	0.57	J	1.5	0.37	ng/L	1		1633_BLT	Total/NA
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	1.3	J	1.5	0.59	ng/L	1		1633_BLT	Total/NA
L-Perfluorohexanesulfonic acid (L-PFHxS)	10		1.5	0.59	ng/L	1		1633_BLT	Total/NA
Total PFHxS	11		1.5	0.59	ng/L	1		1633_BLT	Total/NA
Br-Perfluorooctanesulfonic acid (PFOS)	3.8		1.5	0.37	ng/L	1		1633_BLT	Total/NA
L-Perfluorooctanesulfonic acid (PFOS)	2.0		1.5	0.95	ng/L	1		1633_BLT	Total/NA
Total PFOS	5.8		1.5	0.37	ng/L	1		1633_BLT	Total/NA
Perfluorobutanoic acid (PFBA)	33		2.9	0.79	ng/L	1		1633	Pre-Treatment
Perfluoropentanoic acid (PFPA)	32		1.4	0.43	ng/L	1		1633	Pre-Treatment
Perfluorohexanoic acid (PFHxA)	29		1.4	0.36	ng/L	1		1633	Pre-Treatment
Perfluoroheptanoic acid (PFHpA)	21		1.4	0.57	ng/L	1		1633	Pre-Treatment
Perfluorooctanoic acid (PFOA)	63		1.4	0.65	ng/L	1		1633	Pre-Treatment

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1670-54th-02 (Continued)

Lab Sample ID: 410-226305-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid (PFNA)	0.76	J	1.4	0.36	ng/L	1		1633	Pre-Treatment
Perfluorobutanesulfonic acid (PFBS)	22		1.4	0.36	ng/L	1		1633	Pre-Treatment
Perfluoropentanesulfonic acid (PFPeS)	1.1	J	1.4	0.36	ng/L	1		1633	Pre-Treatment
Perfluorohexanesulfonic acid (PFHxS)	17		1.4	0.57	ng/L	1		1633	Pre-Treatment
Perfluoroheptanesulfonic acid (PFHpS)	1.1	J	1.4	0.36	ng/L	1		1633	Pre-Treatment
Perfluorooctanesulfonic acid (PFOS)	17		1.4	0.93	ng/L	1		1633	Pre-Treatment
Total PFCA	28				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorobutanoic acid (PFBA)	6.7				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoroheptanoic acid (PFHpA)	5.4				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorohexanoic acid (PFHxA)	3.5				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorononanoic acid (PFNA)	0.00				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorooctanoic acid (PFOA)	11				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoropentanoic acid (PFPA)	3.7				ng/L	1		Total PFCA-Dif	Total/NA
Total PFCA	180	J	500	0.20	ng/L	1		Total PFCA-Sum	Pre-Treatment
Total PFCA	210	J	500	0.20	ng/L	1		Total PFCA-Sum	Post-Treatment

Client Sample ID: 1640-52nd-03-Lawn

Lab Sample ID: 410-226305-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	18	J	20	5.4	ng/L	1		1633 TOPS	Post-Treatment
Perfluoropentanoic acid (PFPA)	8.7	J	9.9	3.0	ng/L	1		1633 TOPS	Post-Treatment
Perfluorohexanoic acid (PFHxA)	12		9.9	2.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluoroheptanoic acid (PFHpA)	14		9.9	4.0	ng/L	1		1633 TOPS	Post-Treatment
Perfluorooctanoic acid (PFOA)	14		9.9	4.4	ng/L	1		1633 TOPS	Post-Treatment
Perfluorobutanesulfonic acid (PFBS)	4.7	J	9.9	2.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluorobutanoic acid (PFBA)	8.5		3.1	0.86	ng/L	1		1633_BLT	Total/NA
Perfluoropentanoic acid (PFPeA)	2.4		1.6	0.47	ng/L	1		1633_BLT	Total/NA
Perfluorohexanoic acid (PFHxA)	2.7		1.6	0.39	ng/L	1		1633_BLT	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.9		1.6	0.62	ng/L	1		1633_BLT	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.5		1.6	0.39	ng/L	1		1633_BLT	Total/NA
Br-Perfluorooctanoic acid (Br-PFOA)	0.81	J	1.6	0.70	ng/L	1		1633_BLT	Total/NA
L-Perfluorooctanoic acid (L-PFOA)	1.7		1.6	0.70	ng/L	1		1633_BLT	Total/NA
Total PFOA	2.5		1.6	0.39	ng/L	1		1633_BLT	Total/NA
L-Perfluorohexanesulfonic acid (L-PFHxS)	1.3	J	1.6	0.62	ng/L	1		1633_BLT	Total/NA
Total PFHxS	1.4	J	1.6	0.62	ng/L	1		1633_BLT	Total/NA
Perfluorobutanoic acid (PFBA)	13		3.2	0.87	ng/L	1		1633	Pre-Treatment
Perfluoropentanoic acid (PFPA)	4.4		1.6	0.47	ng/L	1		1633	Pre-Treatment
Perfluorohexanoic acid (PFHxA)	4.8		1.6	0.39	ng/L	1		1633	Pre-Treatment

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1640-52nd-03-Lawn (Continued)

Lab Sample ID: 410-226305-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	3.3		1.6	0.63	ng/L	1		1633	Pre-Treatment
Perfluorooctanoic acid (PFOA)	4.3		1.6	0.71	ng/L	1		1633	Pre-Treatment
Perfluorobutanesulfonic acid (PFBS)	4.5		1.6	0.39	ng/L	1		1633	Pre-Treatment
Perfluoropentanesulfonic acid (PFPeS)	0.43	J	1.6	0.39	ng/L	1		1633	Pre-Treatment
Perfluorohexanesulfonic acid (PFHxS)	5.1		1.6	0.63	ng/L	1		1633	Pre-Treatment
Perfluorooctanesulfonic acid (PFOS)	19		1.6	1.0	ng/L	1		1633	Pre-Treatment
Total PFCA	37				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorobutanoic acid (PFBA)	4.9				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoroheptanoic acid (PFHpA)	10				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorohexanoic acid (PFHxA)	6.8				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorononanoic acid (PFNA)	0.00				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorooctanoic acid (PFOA)	9.3				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoropentanoic acid (PFPA)	4.3				ng/L	1		Total PFCA-Dif	Total/NA
Total PFCA	30	J	500	0.20	ng/L	1		Total PFCA-Sum	Pre-Treatment
Total PFCA	67	J	500	0.20	ng/L	1		Total PFCA-Sum	Post-Treatment

Client Sample ID: 1640-52nd-03-House

Lab Sample ID: 410-226305-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	8.7	J	10	2.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluoroheptanoic acid (PFHpA)	13		10	4.0	ng/L	1		1633 TOPS	Post-Treatment
Perfluorooctanoic acid (PFOA)	14		10	4.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluorobutanoic acid (PFBA)	2.9	J	3.3	0.92	ng/L	1		1633_BLT	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.46	J	1.7	0.42	ng/L	1		1633_BLT	Total/NA
Perfluorobutanoic acid (PFBA)	3.4	J	3.5	0.96	ng/L	1		1633	Pre-Treatment
Perfluorobutanesulfonic acid (PFBS)	0.53	J	1.7	0.44	ng/L	1		1633	Pre-Treatment
Total PFCA	32				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorobutanoic acid (PFBA)	0.00				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoroheptanoic acid (PFHpA)	13				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorohexanoic acid (PFHxA)	8.7				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorononanoic acid (PFNA)	0.00				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorooctanoic acid (PFOA)	14				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoropentanoic acid (PFPA)	0.00				ng/L	1		Total PFCA-Dif	Total/NA
Total PFCA	3.4	J	500	0.20	ng/L	1		Total PFCA-Sum	Pre-Treatment
Total PFCA	36	J	500	0.20	ng/L	1		Total PFCA-Sum	Post-Treatment

Client Sample ID: 1833-52nd-04

Lab Sample ID: 410-226305-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	9.8	J	20	5.4	ng/L	1		1633 TOPS	Post-Treatment

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1833-52nd-04 (Continued)

Lab Sample ID: 410-226305-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	7.4	J	9.8	2.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluoroheptanoic acid (PFHpA)	11		9.8	3.9	ng/L	1		1633 TOPS	Post-Treatment
Perfluorooctanoic acid (PFOA)	13	I	9.8	4.4	ng/L	1		1633 TOPS	Post-Treatment
Perfluorobutanoic acid (PFBA)	5.2		3.0	0.82	ng/L	1		1633_BLT	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.6		1.5	0.37	ng/L	1		1633_BLT	Total/NA
Perfluorobutanoic acid (PFBA)	6.1		3.1	0.84	ng/L	1		1633	Pre-Treatment
Perfluorobutanesulfonic acid (PFBS)	1.7		1.5	0.38	ng/L	1		1633	Pre-Treatment
Total PFCA	35				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorobutanoic acid (PFBA)	3.8				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoroheptanoic acid (PFHpA)	11				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorohexanoic acid (PFHxA)	7.4				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorononanoic acid (PFNA)	0.00				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorooctanoic acid (PFOA)	13				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoropentanoic acid (PFPA)	0.00				ng/L	1		Total PFCA-Dif	Total/NA
Total PFCA	6.1	J	500	0.20	ng/L	1		Total PFCA-Sum	Pre-Treatment
Total PFCA	41	J	500	0.20	ng/L	1		Total PFCA-Sum	Post-Treatment

Client Sample ID: 5321-County Rd-05

Lab Sample ID: 410-226305-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	21		20	5.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluoropentanoic acid (PFPA)	18		10	3.0	ng/L	1		1633 TOPS	Post-Treatment
Perfluorohexanoic acid (PFHxA)	21		10	2.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluoroheptanoic acid (PFHpA)	31		10	4.0	ng/L	1		1633 TOPS	Post-Treatment
Perfluorooctanoic acid (PFOA)	58		10	4.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluorobutanesulfonic acid (PFBS)	8.4	J	10	2.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluorohexanesulfonic acid (PFHxS)	11		10	4.0	ng/L	1		1633 TOPS	Post-Treatment
Perfluorooctanesulfonic acid (PFOS)	10		10	6.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluorobutanoic acid (PFBA)	14		3.0	0.82	ng/L	1		1633_BLT	Total/NA
Perfluoropentanoic acid (PFPeA)	10		1.5	0.45	ng/L	1		1633_BLT	Total/NA
Perfluorohexanoic acid (PFHxA)	10		1.5	0.37	ng/L	1		1633_BLT	Total/NA
Perfluoroheptanoic acid (PFHpA)	11		1.5	0.60	ng/L	1		1633_BLT	Total/NA
Perfluorobutanesulfonic acid (PFBS)	7.6		1.5	0.37	ng/L	1		1633_BLT	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.65	J	1.5	0.37	ng/L	1		1633_BLT	Total/NA
Br-Perfluorooctanoic acid (Br-PFOA)	2.2		1.5	0.67	ng/L	1		1633_BLT	Total/NA
L-Perfluorooctanoic acid (L-PFOA)	31		1.5	0.67	ng/L	1		1633_BLT	Total/NA
Total PFOA	33		1.5	0.37	ng/L	1		1633_BLT	Total/NA
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	0.98	J	1.5	0.60	ng/L	1		1633_BLT	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 5321-County Rd-05 (Continued)

Lab Sample ID: 410-226305-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
L-Perfluorohexanesulfonic acid (L-PFHxS)	6.4		1.5	0.60	ng/L	1		1633_BLT	Total/NA
Total PFHxS	7.4	cn	1.5	0.60	ng/L	1		1633_BLT	Total/NA
Br-Perfluorooctanesulfonic acid (PFOS)	1.8		1.5	0.37	ng/L	1		1633_BLT	Total/NA
Total PFOS	2.3		1.5	0.37	ng/L	1		1633_BLT	Total/NA
Perfluorobutanoic acid (PFBA)	16		3.0	0.83	ng/L	1		1633	Pre-Treatment
Perfluoropentanoic acid (PFPA)	11		1.5	0.45	ng/L	1		1633	Pre-Treatment
Perfluorohexanoic acid (PFHxA)	12		1.5	0.38	ng/L	1		1633	Pre-Treatment
Perfluoroheptanoic acid (PFHpA)	13		1.5	0.61	ng/L	1		1633	Pre-Treatment
Perfluorooctanoic acid (PFOA)	41		1.5	0.68	ng/L	1		1633	Pre-Treatment
Perfluorobutanesulfonic acid (PFBS)	8.3		1.5	0.38	ng/L	1		1633	Pre-Treatment
Perfluoropentanesulfonic acid (PFPeS)	0.65	J	1.5	0.38	ng/L	1		1633	Pre-Treatment
Perfluorohexanesulfonic acid (PFHxS)	9.6		1.5	0.61	ng/L	1		1633	Pre-Treatment
Perfluorooctanesulfonic acid (PFOS)	1.8	I cn	1.5	0.98	ng/L	1		1633	Pre-Treatment
Total PFCA	56				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorobutanoic acid (PFBA)	5.4				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoroheptanoic acid (PFHpA)	18				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorohexanoic acid (PFHxA)	9.2				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorononanoic acid (PFNA)	0.00				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorooctanoic acid (PFOA)	17				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoropentanoic acid (PFPA)	7.1				ng/L	1		Total PFCA-Dif	Total/NA
Total PFCA	93	J	500	0.20	ng/L	1		Total PFCA-Sum	Pre-Treatment
Total PFCA	150	J	500	0.20	ng/L	1		Total PFCA-Sum	Post-Treatment

Client Sample ID: MW-8

Lab Sample ID: 410-226305-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	26		20	5.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluoropentanoic acid (PFPA)	25		10	3.0	ng/L	1		1633 TOPS	Post-Treatment
Perfluorohexanoic acid (PFHxA)	31		10	2.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluoroheptanoic acid (PFHpA)	30		10	4.0	ng/L	1		1633 TOPS	Post-Treatment
Perfluorooctanoic acid (PFOA)	56		10	4.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluorobutanesulfonic acid (PFBS)	19		10	2.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluorohexanesulfonic acid (PFHxS)	8.5	J	10	4.0	ng/L	1		1633 TOPS	Post-Treatment
Perfluorooctanesulfonic acid (PFOS)	8.7	J	10	6.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluorobutanoic acid (PFBA)	19		3.3	0.92	ng/L	1		1633_BLT	Total/NA
Perfluoropentanoic acid (PFPeA)	20		1.7	0.50	ng/L	1		1633_BLT	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-8 (Continued)

Lab Sample ID: 410-226305-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	20		1.7	0.42	ng/L	1		1633_BLT	Total/NA
Perfluoroheptanoic acid (PFHpA)	18		1.7	0.67	ng/L	1		1633_BLT	Total/NA
Perfluorobutanesulfonic acid (PFBS)	17		1.7	0.42	ng/L	1		1633_BLT	Total/NA
Br-Perfluorooctanoic acid (Br-PFOA)	4.1		1.7	0.75	ng/L	1		1633_BLT	Total/NA
L-Perfluorooctanoic acid (L-PFOA)	34		1.7	0.75	ng/L	1		1633_BLT	Total/NA
Total PFOA	38		1.7	0.42	ng/L	1		1633_BLT	Total/NA
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	0.68	J	1.7	0.67	ng/L	1		1633_BLT	Total/NA
L-Perfluorohexanesulfonic acid (L-PFHxS)	5.8		1.7	0.67	ng/L	1		1633_BLT	Total/NA
Total PFHxS	6.5		1.7	0.67	ng/L	1		1633_BLT	Total/NA
Br-Perfluorooctanesulfonic acid (PFOS)	1.8		1.7	0.42	ng/L	1		1633_BLT	Total/NA
L-Perfluorooctanesulfonic acid (PFOS)	9.3		1.7	1.1	ng/L	1		1633_BLT	Total/NA
Total PFOS	11		1.7	0.42	ng/L	1		1633_BLT	Total/NA
Perfluorobutanoic acid (PFBA)	21		3.0	0.81	ng/L	1		1633	Pre-Treatment
Perfluoropentanoic acid (PFPA)	22		1.5	0.44	ng/L	1		1633	Pre-Treatment
Perfluorohexanoic acid (PFHxA)	24		1.5	0.37	ng/L	1		1633	Pre-Treatment
Perfluoroheptanoic acid (PFHpA)	24		1.5	0.59	ng/L	1		1633	Pre-Treatment
Perfluorooctanoic acid (PFOA)	49		1.5	0.67	ng/L	1		1633	Pre-Treatment
Perfluorononanoic acid (PFNA)	0.47	J	1.5	0.37	ng/L	1		1633	Pre-Treatment
Perfluorobutanesulfonic acid (PFBS)	20		1.5	0.37	ng/L	1		1633	Pre-Treatment
Perfluoropentanesulfonic acid (PFPeS)	0.59	J	1.5	0.37	ng/L	1		1633	Pre-Treatment
Perfluorohexanesulfonic acid (PFHxS)	7.3		1.5	0.59	ng/L	1		1633	Pre-Treatment
Perfluoroheptanesulfonic acid (PFHpS)	0.38	J	1.5	0.37	ng/L	1		1633	Pre-Treatment
Perfluorooctanesulfonic acid (PFOS)	3.5		1.5	0.96	ng/L	1		1633	Pre-Treatment
Adsorbable Organic Fluorine (AOF)	6.2		2.0	1.2	ug/L	1		ELLE SOP	Total/NA
Total PFCA	28				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorobutanoic acid (PFBA)	4.8				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoroheptanoic acid (PFHpA)	5.4				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorohexanoic acid (PFHxA)	6.6				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorononanoic acid (PFNA)	0.00				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorooctanoic acid (PFOA)	7.5				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoropentanoic acid (PFPA)	2.7				ng/L	1		Total PFCA-Dif	Total/NA
Total PFCA	140	J	500	0.20	ng/L	1		Total PFCA-Sum	Pre-Treatment
Total PFCA	170	J	500	0.20	ng/L	1		Total PFCA-Sum	Post-Treatment

Client Sample ID: DUP-1

Lab Sample ID: 410-226305-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	25		20	5.4	ng/L	1		1633 TOPS	Post-Treatment

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: DUP-1 (Continued)

Lab Sample ID: 410-226305-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPA)	26		9.8	2.9	ng/L	1		1633 TOPS	Post-Treatment
Perfluorohexanoic acid (PFHxA)	29		9.8	2.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluoroheptanoic acid (PFHpA)	29		9.8	3.9	ng/L	1		1633 TOPS	Post-Treatment
Perfluorooctanoic acid (PFOA)	59		9.8	4.4	ng/L	1		1633 TOPS	Post-Treatment
Perfluorobutanesulfonic acid (PFBS)	18		9.8	2.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluorohexanesulfonic acid (PFHxS)	8.4	J	9.8	3.9	ng/L	1		1633 TOPS	Post-Treatment
Perfluorobutanoic acid (PFBA)	20		3.2	0.87	ng/L	1		1633_BLT	Total/NA
Perfluoropentanoic acid (PFPeA)	19		1.6	0.47	ng/L	1		1633_BLT	Total/NA
Perfluorohexanoic acid (PFHxA)	21		1.6	0.39	ng/L	1		1633_BLT	Total/NA
Perfluoroheptanoic acid (PFHpA)	19		1.6	0.63	ng/L	1		1633_BLT	Total/NA
Perfluorobutanesulfonic acid (PFBS)	17		1.6	0.39	ng/L	1		1633_BLT	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.54	J	1.6	0.39	ng/L	1		1633_BLT	Total/NA
Br-Perfluorooctanoic acid (Br-PFOA)	3.8		1.6	0.71	ng/L	1		1633_BLT	Total/NA
L-Perfluorooctanoic acid (L-PFOA)	34		1.6	0.71	ng/L	1		1633_BLT	Total/NA
Total PFOA	38		1.6	0.39	ng/L	1		1633_BLT	Total/NA
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	0.78	J	1.6	0.63	ng/L	1		1633_BLT	Total/NA
L-Perfluorohexanesulfonic acid (L-PFHxS)	5.3		1.6	0.63	ng/L	1		1633_BLT	Total/NA
Total PFHxS	6.1		1.6	0.63	ng/L	1		1633_BLT	Total/NA
Perfluorobutanoic acid (PFBA)	21		3.2	0.89	ng/L	1		1633	Pre-Treatment
Perfluoropentanoic acid (PFPA)	22		1.6	0.49	ng/L	1		1633	Pre-Treatment
Perfluorohexanoic acid (PFHxA)	25		1.6	0.41	ng/L	1		1633	Pre-Treatment
Perfluoroheptanoic acid (PFHpA)	24		1.6	0.65	ng/L	1		1633	Pre-Treatment
Perfluorooctanoic acid (PFOA)	52		1.6	0.73	ng/L	1		1633	Pre-Treatment
Perfluorobutanesulfonic acid (PFBS)	19		1.6	0.41	ng/L	1		1633	Pre-Treatment
Perfluoropentanesulfonic acid (PFPeS)	0.43	J	1.6	0.41	ng/L	1		1633	Pre-Treatment
Perfluorohexanesulfonic acid (PFHxS)	6.8		1.6	0.65	ng/L	1		1633	Pre-Treatment
Adsorbable Organic Fluorine (AOF)	3.0		2.0	1.2	ug/L	1		ELLE SOP	Total/NA
Total PFCA	24				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorobutanoic acid (PFBA)	3.6				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoroheptanoic acid (PFHpA)	4.8				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorohexanoic acid (PFHxA)	4.1				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorononanoic acid (PFNA)	0.00				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorooctanoic acid (PFOA)	6.6				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoropentanoic acid (PFPA)	3.4				ng/L	1		Total PFCA-Dif	Total/NA
Total PFCA	140	J	500	0.20	ng/L	1		Total PFCA-Sum	Pre-Treatment
Total PFCA	170	J	500	0.20	ng/L	1		Total PFCA-Sum	Post-Treatment

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: Field Blank

Lab Sample ID: 410-226305-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	9.5	J	9.8	2.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluoroheptanoic acid (PFHpA)	15		9.8	3.9	ng/L	1		1633 TOPS	Post-Treatment
Perfluorooctanoic acid (PFOA)	17		9.8	4.4	ng/L	1		1633 TOPS	Post-Treatment
Total NETFOSE	1.9	J	7.4	1.8	ng/L	1		1633_BLT	Total/NA
Total NMeFOSE	1.8	J	7.4	1.8	ng/L	1		1633_BLT	Total/NA
Total PFCA	42				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorobutanoic acid (PFBA)	0.00				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoroheptanoic acid (PFHpA)	15				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorohexanoic acid (PFHxA)	9.5				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorononanoic acid (PFNA)	0.00				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorooctanoic acid (PFOA)	17				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoropentanoic acid (PFPA)	0.00				ng/L	1		Total PFCA-Dif	Total/NA
Total PFCA	42	J	500	0.20	ng/L	1		Total PFCA-Sum	Post-Treatment

Client Sample ID: MW-5

Lab Sample ID: 410-226305-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPA)	23		9.9	3.0	ng/L	1		1633 TOPS	Post-Treatment
Perfluorohexanoic acid (PFHxA)	21		9.9	2.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluoroheptanoic acid (PFHpA)	18		9.9	4.0	ng/L	1		1633 TOPS	Post-Treatment
Perfluorooctanoic acid (PFOA)	27		9.9	4.4	ng/L	1		1633 TOPS	Post-Treatment
Perfluorobutanesulfonic acid (PFBS)	8.0	J	9.9	2.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluorohexanesulfonic acid (PFHxS)	10		9.9	4.0	ng/L	1		1633 TOPS	Post-Treatment
Perfluorobutanoic acid (PFBA)	28		3.2	0.87	ng/L	1		1633_BLT	Total/NA
Perfluoropentanoic acid (PFPeA)	15		1.6	0.48	ng/L	1		1633_BLT	Total/NA
Perfluorohexanoic acid (PFHxA)	14		1.6	0.40	ng/L	1		1633_BLT	Total/NA
Perfluoroheptanoic acid (PFHpA)	9.8		1.6	0.64	ng/L	1		1633_BLT	Total/NA
Perfluorobutanesulfonic acid (PFBS)	7.0		1.6	0.40	ng/L	1		1633_BLT	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.46	J	1.6	0.40	ng/L	1		1633_BLT	Total/NA
Br-Perfluorooctanoic acid (Br-PFOA)	2.1		1.6	0.72	ng/L	1		1633_BLT	Total/NA
L-Perfluorooctanoic acid (L-PFOA)	12		1.6	0.72	ng/L	1		1633_BLT	Total/NA
Total PFOA	14		1.6	0.40	ng/L	1		1633_BLT	Total/NA
L-Perfluorononanoic acid (L-PFNA)	0.51	J	1.6	0.40	ng/L	1		1633_BLT	Total/NA
Total PFNA	0.58	J	1.6	0.40	ng/L	1		1633_BLT	Total/NA
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	0.88	J	1.6	0.64	ng/L	1		1633_BLT	Total/NA
L-Perfluorohexanesulfonic acid (L-PFHxS)	7.4		1.6	0.64	ng/L	1		1633_BLT	Total/NA
Total PFHxS	8.3		1.6	0.64	ng/L	1		1633_BLT	Total/NA
Br-Perfluorooctanesulfonic acid (PFOS)	1.1	J	1.6	0.40	ng/L	1		1633_BLT	Total/NA
Total PFOS	1.4	J	1.6	0.40	ng/L	1		1633_BLT	Total/NA
Perfluorobutanoic acid (PFBA)	28		3.2	0.87	ng/L	1		1633	Pre-Treatment

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-5 (Continued)

Lab Sample ID: 410-226305-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPA)	17		1.6	0.48	ng/L	1		1633	Pre-Treatment
Perfluorohexanoic acid (PFHxA)	16		1.6	0.40	ng/L	1		1633	Pre-Treatment
Perfluoroheptanoic acid (PFHpA)	11		1.6	0.63	ng/L	1		1633	Pre-Treatment
Perfluorooctanoic acid (PFOA)	19		1.6	0.71	ng/L	1		1633	Pre-Treatment
Perfluorononanoic acid (PFNA)	0.69	J	1.6	0.40	ng/L	1		1633	Pre-Treatment
Perfluorobutanesulfonic acid (PFBS)	7.4		1.6	0.40	ng/L	1		1633	Pre-Treatment
Perfluoropentanesulfonic acid (PFPeS)	0.64	J	1.6	0.40	ng/L	1		1633	Pre-Treatment
Perfluorohexanesulfonic acid (PFHxS)	8.9		1.6	0.63	ng/L	1		1633	Pre-Treatment
Perfluorooctanesulfonic acid (PFOS)	1.8	I cn	1.6	1.0	ng/L	1		1633	Pre-Treatment
Adsorbable Organic Fluorine (AOF)	2.7		2.0	1.2	ug/L	1		ELLE SOP	Total/NA
Total PFCA	0.00				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorobutanoic acid (PFBA)	0.00				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoroheptanoic acid (PFHpA)	7.5				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorohexanoic acid (PFHxA)	5.8				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorononanoic acid (PFNA)	0.00				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorooctanoic acid (PFOA)	8.7				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoropentanoic acid (PFPA)	5.6				ng/L	1		Total PFCA-Dif	Total/NA
Total PFCA	92	J	500	0.20	ng/L	1		Total PFCA-Sum	Pre-Treatment
Total PFCA	89	J	500	0.20	ng/L	1		Total PFCA-Sum	Post-Treatment

Client Sample ID: MW-6

Lab Sample ID: 410-226305-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	56		20	5.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluoropentanoic acid (PFPA)	37		10	3.0	ng/L	1		1633 TOPS	Post-Treatment
Perfluorohexanoic acid (PFHxA)	34		10	2.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluoroheptanoic acid (PFHpA)	30		10	4.0	ng/L	1		1633 TOPS	Post-Treatment
Perfluorooctanoic acid (PFOA)	65		10	4.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluorobutanesulfonic acid (PFBS)	11		10	2.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluorohexanesulfonic acid (PFHxS)	16		10	4.0	ng/L	1		1633 TOPS	Post-Treatment
Perfluorobutanoic acid (PFBA)	41		2.9	0.79	ng/L	1		1633_BLT	Total/NA
Perfluoropentanoic acid (PFPeA)	26		1.4	0.43	ng/L	1		1633_BLT	Total/NA
Perfluorohexanoic acid (PFHxA)	20		1.4	0.36	ng/L	1		1633_BLT	Total/NA
Perfluoroheptanoic acid (PFHpA)	15		1.4	0.57	ng/L	1		1633_BLT	Total/NA
Perfluorobutanesulfonic acid (PFBS)	8.4		1.4	0.36	ng/L	1		1633_BLT	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.70	J	1.4	0.36	ng/L	1		1633_BLT	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-6 (Continued)

Lab Sample ID: 410-226305-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Perfluoroheptanesulfonic acid (PFHpS)	0.42	J	1.4	0.36	ng/L	1			1633_BLT	Total/NA
Br-Perfluorooctanoic acid (Br-PFOA)	3.2		1.4	0.64	ng/L	1			1633_BLT	Total/NA
L-Perfluorooctanoic acid (L-PFOA)	33		1.4	0.64	ng/L	1			1633_BLT	Total/NA
Total PFOA	36		1.4	0.36	ng/L	1			1633_BLT	Total/NA
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	0.99	J	1.4	0.57	ng/L	1			1633_BLT	Total/NA
L-Perfluorohexanesulfonic acid (L-PFHxS)	11		1.4	0.57	ng/L	1			1633_BLT	Total/NA
Total PFHxS	12		1.4	0.57	ng/L	1			1633_BLT	Total/NA
Br-Perfluorooctanesulfonic acid (PFOS)	4.2		1.4	0.36	ng/L	1			1633_BLT	Total/NA
Total PFOS	4.4	I cn	1.4	0.36	ng/L	1			1633_BLT	Total/NA
Perfluorobutanoic acid (PFBA)	47		2.9	0.81	ng/L	1			1633	Pre-Treatment
Perfluoropentanoic acid (PFPA)	30		1.5	0.44	ng/L	1			1633	Pre-Treatment
Perfluorohexanoic acid (PFHxA)	25		1.5	0.37	ng/L	1			1633	Pre-Treatment
Perfluoroheptanoic acid (PFHpA)	19		1.5	0.59	ng/L	1			1633	Pre-Treatment
Perfluorooctanoic acid (PFOA)	55		1.5	0.66	ng/L	1			1633	Pre-Treatment
Perfluorobutanesulfonic acid (PFBS)	11		1.5	0.37	ng/L	1			1633	Pre-Treatment
Perfluoropentanesulfonic acid (PFPeS)	0.86	J	1.5	0.37	ng/L	1			1633	Pre-Treatment
Perfluorohexanesulfonic acid (PFHxS)	15		1.5	0.59	ng/L	1			1633	Pre-Treatment
Perfluoroheptanesulfonic acid (PFHpS)	0.60	J	1.5	0.37	ng/L	1			1633	Pre-Treatment
Perfluorooctanesulfonic acid (PFOS)	5.3	I cn	1.5	0.96	ng/L	1			1633	Pre-Treatment
Adsorbable Organic Fluorine (AOF)	4.4		2.0	1.2	ug/L	1			ELLE SOP	Total/NA
Total PFCA	46				ng/L	1			Total PFCA-Dif	Total/NA
Perfluorobutanoic acid (PFBA)	9.3				ng/L	1			Total PFCA-Dif	Total/NA
Perfluoroheptanoic acid (PFHpA)	12				ng/L	1			Total PFCA-Dif	Total/NA
Perfluorohexanoic acid (PFHxA)	8.8				ng/L	1			Total PFCA-Dif	Total/NA
Perfluorononanoic acid (PFNA)	0.00				ng/L	1			Total PFCA-Dif	Total/NA
Perfluorooctanoic acid (PFOA)	10				ng/L	1			Total PFCA-Dif	Total/NA
Perfluoropentanoic acid (PFPA)	6.4				ng/L	1			Total PFCA-Dif	Total/NA
Total PFCA	180	J	500	0.20	ng/L	1			Total PFCA-Sum	Pre-Treatment
Total PFCA	220	J	500	0.20	ng/L	1			Total PFCA-Sum	Post-Treatment

Client Sample ID: MW-7

Lab Sample ID: 410-226305-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPA)	31		10	3.0	ng/L	1			1633 TOPS	Post-Treatment
Perfluorohexanoic acid (PFHxA)	30		10	2.5	ng/L	1			1633 TOPS	Post-Treatment
Perfluoroheptanoic acid (PFHpA)	29		10	4.0	ng/L	1			1633 TOPS	Post-Treatment

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-7 (Continued)

Lab Sample ID: 410-226305-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	88		10	4.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluorobutanesulfonic acid (PFBS)	13		10	2.5	ng/L	1		1633 TOPS	Post-Treatment
Perfluorohexanesulfonic acid (PFHxS)	20		10	4.0	ng/L	1		1633 TOPS	Post-Treatment
Perfluorobutanoic acid (PFBA)	29		3.1	0.85	ng/L	1		1633_BLT	Total/NA
Perfluoropentanoic acid (PFPeA)	23		1.5	0.46	ng/L	1		1633_BLT	Total/NA
Perfluorohexanoic acid (PFHxA)	22		1.5	0.38	ng/L	1		1633_BLT	Total/NA
Perfluoroheptanoic acid (PFHpA)	19		1.5	0.62	ng/L	1		1633_BLT	Total/NA
Perfluorobutanesulfonic acid (PFBS)	11		1.5	0.38	ng/L	1		1633_BLT	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.87	J	1.5	0.38	ng/L	1		1633_BLT	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.62	J	1.5	0.38	ng/L	1		1633_BLT	Total/NA
Br-Perfluorooctanoic acid (Br-PFOA)	4.0		1.5	0.69	ng/L	1		1633_BLT	Total/NA
L-Perfluorooctanoic acid (L-PFOA)	53		1.5	0.69	ng/L	1		1633_BLT	Total/NA
Total PFOA	57		1.5	0.38	ng/L	1		1633_BLT	Total/NA
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	1.6		1.5	0.62	ng/L	1		1633_BLT	Total/NA
L-Perfluorohexanesulfonic acid (L-PFHxS)	13		1.5	0.62	ng/L	1		1633_BLT	Total/NA
Total PFHxS	14		1.5	0.62	ng/L	1		1633_BLT	Total/NA
Br-Perfluorooctanesulfonic acid (PFOS)	3.9		1.5	0.38	ng/L	1		1633_BLT	Total/NA
Total PFOS	4.4		1.5	0.38	ng/L	1		1633_BLT	Total/NA
Perfluorobutanoic acid (PFBA)	33		3.0	0.82	ng/L	1		1633	Pre-Treatment
Perfluoropentanoic acid (PFPA)	26		1.5	0.45	ng/L	1		1633	Pre-Treatment
Perfluorohexanoic acid (PFHxA)	25		1.5	0.37	ng/L	1		1633	Pre-Treatment
Perfluoroheptanoic acid (PFHpA)	24		1.5	0.60	ng/L	1		1633	Pre-Treatment
Perfluorooctanoic acid (PFOA)	85		1.5	0.67	ng/L	1		1633	Pre-Treatment
Perfluorononanoic acid (PFNA)	0.56	J	1.5	0.37	ng/L	1		1633	Pre-Treatment
Perfluorobutanesulfonic acid (PFBS)	14		1.5	0.37	ng/L	1		1633	Pre-Treatment
Perfluoropentanesulfonic acid (PFPeS)	1.0	J	1.5	0.37	ng/L	1		1633	Pre-Treatment
Perfluorohexanesulfonic acid (PFHxS)	18		1.5	0.60	ng/L	1		1633	Pre-Treatment
Perfluoroheptanesulfonic acid (PFHpS)	0.69	J	1.5	0.37	ng/L	1		1633	Pre-Treatment
Perfluorooctanesulfonic acid (PFOS)	5.0	I cn	1.5	0.97	ng/L	1		1633	Pre-Treatment
Adsorbable Organic Fluorine (AOF)	3.0		2.0	1.2	ug/L	1		ELLE SOP	Total/NA
Total PFCA	0.00				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorobutanoic acid (PFBA)	0.00				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoroheptanoic acid (PFHpA)	5.1				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorohexanoic acid (PFHxA)	4.4				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorononanoic acid (PFNA)	0.00				ng/L	1		Total PFCA-Dif	Total/NA
Perfluorooctanoic acid (PFOA)	3.5				ng/L	1		Total PFCA-Dif	Total/NA
Perfluoropentanoic acid (PFPA)	5.1				ng/L	1		Total PFCA-Dif	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-7 (Continued)

Lab Sample ID: 410-226305-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total PFCA	190	J	500	0.20	ng/L	1		Total PFCA-Sum	Pre-Treatment
Total PFCA	180	J	500	0.20	ng/L	1		Total PFCA-Sum	Post-Treatment

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 4959-County Rd-06

Lab Sample ID: 410-226305-1

Date Collected: 06/04/25 11:40

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	60		20	5.5	ng/L		06/18/25 10:41	06/20/25 16:07	1
Perfluoropentanoic acid (PFPA)	41		10	3.0	ng/L		06/18/25 10:41	06/20/25 16:07	1
Perfluorohexanoic acid (PFHxA)	40		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:07	1
Perfluoroheptanoic acid (PFHpA)	52		10	4.0	ng/L		06/18/25 10:41	06/20/25 16:07	1
Perfluorooctanoic acid (PFOA)	100		10	4.5	ng/L		06/18/25 10:41	06/20/25 16:07	1
Perfluorononanoic acid (PFNA)	10		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:07	1
Perfluorodecanoic acid (PFDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:07	1
Perfluoroundecanoic acid (PFUnA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:07	1
Perfluorododecanoic acid (PFDoA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:07	1
Perfluorotridecanoic acid (PFTrDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:07	1
Perfluorotetradecanoic acid (PFTeDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:07	1
Perfluorobutanesulfonic acid (PFBS)	12		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:07	1
Perfluoropentanesulfonic acid (PFPeS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:07	1
Perfluorohexanesulfonic acid (PFHxS)	17		10	4.0	ng/L		06/18/25 10:41	06/20/25 16:07	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:07	1
Perfluorooctanesulfonic acid (PFOS)	10	I	10	6.5	ng/L		06/18/25 10:41	06/20/25 16:07	1
Perfluorononanesulfonic acid (PFNS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:07	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		10	3.0	ng/L		06/18/25 10:41	06/20/25 16:07	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 16:07	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 16:07	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 16:07	1
Perfluorooctanesulfonamide (PFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:07	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:07	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:07	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:07	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:07	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<12		50	12	ng/L		06/18/25 10:41	06/20/25 16:07	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<20		50	20	ng/L		06/18/25 10:41	06/20/25 16:07	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<7.0		10	7.0	ng/L		06/18/25 10:41	06/20/25 16:07	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:07	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:07	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:07	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:07	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:07	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 4959-County Rd-06

Lab Sample ID: 410-226305-1

Date Collected: 06/04/25 11:40

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:07	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:07	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 16:07	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<14		50	14	ng/L		06/18/25 10:41	06/20/25 16:07	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<12		50	12	ng/L		06/18/25 10:41	06/20/25 16:07	1
Perfluorodecanesulfonic acid (PFDS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:07	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	90.5		10 - 130	06/18/25 10:41	06/20/25 16:07	1
13C5-PFPeA	95.2		35 - 150	06/18/25 10:41	06/20/25 16:07	1
13C5-PFHxA	101		55 - 150	06/18/25 10:41	06/20/25 16:07	1
13C4-PFHpA	94.6		55 - 150	06/18/25 10:41	06/20/25 16:07	1
13C9-PFNA	89.2		55 - 140	06/18/25 10:41	06/20/25 16:07	1
13C6-PFDA	94.9		50 - 140	06/18/25 10:41	06/20/25 16:07	1
13C7-PFUnA	96.4		30 - 140	06/18/25 10:41	06/20/25 16:07	1
13C2 PFDoA	88.1		10 - 150	06/18/25 10:41	06/20/25 16:07	1
13C2-PFTeDA	78.7		10 - 130	06/18/25 10:41	06/20/25 16:07	1
13C3-PFBS	90.9		55 - 150	06/18/25 10:41	06/20/25 16:07	1
13C3-PFHxS	94.7		55 - 150	06/18/25 10:41	06/20/25 16:07	1
13C8-PFOS	99.1		45 - 140	06/18/25 10:41	06/20/25 16:07	1
13C8-PFOSA	0.414		0 - 10	06/18/25 10:41	06/20/25 16:07	1
d3-NMeFOSAA	119		45 - 200	06/18/25 10:41	06/20/25 16:07	1
d5-NEtFOSAA	133		10 - 200	06/18/25 10:41	06/20/25 16:07	1
13C2-4:2 FTS	97.9		60 - 200	06/18/25 10:41	06/20/25 16:07	1
13C2-6:2 FTS	107		60 - 200	06/18/25 10:41	06/20/25 16:07	1
13C2-8:2 FTS	100		50 - 200	06/18/25 10:41	06/20/25 16:07	1
13C3-HFPO-DA	92.5		25 - 160	06/18/25 10:41	06/20/25 16:07	1
D7-NMeFOSE	77.1		10 - 150	06/18/25 10:41	06/20/25 16:07	1
D9-NEtFOSE	70.5		10 - 150	06/18/25 10:41	06/20/25 16:07	1
d5-NEtPFOSA	93.8		10 - 130	06/18/25 10:41	06/20/25 16:07	1
d3-NMePFOSA	102		15 - 130	06/18/25 10:41	06/20/25 16:07	1
13C2 PFOA	92.7		40 - 130	06/18/25 10:41	06/20/25 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	75		50 - 150	06/18/25 10:41	06/20/25 16:07	1
M3PFPeA	84		50 - 150	06/18/25 10:41	06/20/25 16:07	1

Method: EPA 1633_BLT - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	44		2.9	0.79	ng/L		07/01/25 14:27	07/02/25 10:46	1
Perfluoropentanoic acid (PFPeA)	24		1.4	0.43	ng/L		07/01/25 14:27	07/02/25 10:46	1
Perfluorohexanoic acid (PFHxA)	22		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Perfluoroheptanoic acid (PFHpA)	17		1.4	0.58	ng/L		07/01/25 14:27	07/02/25 10:46	1
Perfluorodecanoic acid (PFDA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Perfluoroundecanoic acid (PFUnA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Perfluorododecanoic acid (PFDoA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Perfluorotridecanoic acid (PFTTrDA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 4959-County Rd-06

Lab Sample ID: 410-226305-1

Date Collected: 06/04/25 11:40

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeDA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Perfluorobutanesulfonic acid (PFBS)	9.6		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Perfluoropentanesulfonic acid (PFPeS)	0.74	J	1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Perfluoroheptanesulfonic acid (PFHpS)	0.85	J	1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Perfluorodecanesulfonic acid (PFDS)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Perfluorododecanesulfonic acid (PFDoS)	<0.43		1.4	0.43	ng/L		07/01/25 14:27	07/02/25 10:46	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.72		2.9	0.72	ng/L		07/01/25 14:27	07/02/25 10:46	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.72		2.9	0.72	ng/L		07/01/25 14:27	07/02/25 10:46	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.72		2.9	0.72	ng/L		07/01/25 14:27	07/02/25 10:46	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.0		1.4	1.0	ng/L		07/01/25 14:27	07/02/25 10:46	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.72		2.9	0.72	ng/L		07/01/25 14:27	07/02/25 10:46	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.0		7.2	2.0	ng/L		07/01/25 14:27	07/02/25 10:46	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<1.8		7.2	1.8	ng/L		07/01/25 14:27	07/02/25 10:46	1
Br-Perfluorooctanoic acid (Br-PFOA)	3.9		1.4	0.65	ng/L		07/01/25 14:27	07/02/25 10:46	1
L-Perfluorooctanoic acid (L-PFOA)	49		1.4	0.65	ng/L		07/01/25 14:27	07/02/25 10:46	1
Total PFOA	53		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Br-Perfluorononanoic acid (Br-PFNA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
L-Perfluorononanoic acid (L-PFNA)	0.50	J I	1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Total PFNA	0.68	J I cn	1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	1.2	J	1.4	0.58	ng/L		07/01/25 14:27	07/02/25 10:46	1
L-Perfluorohexanesulfonic acid (L-PFHxS)	12		1.4	0.58	ng/L		07/01/25 14:27	07/02/25 10:46	1
Total PFHxS	13		1.4	0.58	ng/L		07/01/25 14:27	07/02/25 10:46	1
Br-Perfluorooctanesulfonic acid (PFOS)	6.4		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 4959-County Rd-06

Lab Sample ID: 410-226305-1

Date Collected: 06/04/25 11:40

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
L-Perfluorooctanesulfonic acid (PFOS)	<0.94		1.4	0.94	ng/L		07/01/25 14:27	07/02/25 10:46	1
Total PFOS	7.1		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Br-N-methylperfluorooctanesulfonamidoacetic acid (Br-NMeFOSAA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
L-N-methylperfluorooctanesulfonamidoacetic acid (L-NMeFOSAA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Total NMeFOSAA	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid (Br-NEtFOSAA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
L-N-ethylperfluorooctanesulfonamidoacetic acid (L-NEtFOSAA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Total NEtFOSAA	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Br-N-ethylperfluorooctane sulfonamide (Br-NEtFOSA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
L-N-ethylperfluorooctane sulfonamide (L-NEtFOSA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Total NEtFOSA	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Br-N-methylperfluorooctane sulfonamide (Br-NMeFOSA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
L-N-methylperfluorooctane sulfonamide (L-NMeFOSA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Total NMeFOSA	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Br-Perfluorooctanesulfonamide (PFOSA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
L-Perfluorooctanesulfonamide (L-PFOSA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Total PFOSA	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 10:46	1
Br-2-(N-ethylperfluoro-1-octanesulfonamido) ethanol (Br-NEtFOSE)	<1.8		7.2	1.8	ng/L		07/01/25 14:27	07/02/25 10:46	1
L-N-ethylperfluorooctane sulfonamidoethanol (L-NEtFOSE)	<2.9		7.2	2.9	ng/L		07/01/25 14:27	07/02/25 10:46	1
Total NEtFOSE	<1.8		7.2	1.8	ng/L		07/01/25 14:27	07/02/25 10:46	1
Br-2-(N-methylperfluoro-1-octanesulfonamido) ethanol (Br-NMeFOSE)	<1.8		7.2	1.8	ng/L		07/01/25 14:27	07/02/25 10:46	1
L-N-methylperfluorooctane sulfonamidoethanol (L-NMeFOSE)	<1.8		7.2	1.8	ng/L		07/01/25 14:27	07/02/25 10:46	1
Total NMeFOSE	<1.8		7.2	1.8	ng/L		07/01/25 14:27	07/02/25 10:46	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	100		5 - 130				07/01/25 14:27	07/02/25 10:46	1
13C5 PFPeA	107		40 - 130				07/01/25 14:27	07/02/25 10:46	1
13C5 PFHxA	98		40 - 130				07/01/25 14:27	07/02/25 10:46	1
13C4 PFHpA	98		40 - 130				07/01/25 14:27	07/02/25 10:46	1
13C8 PFOA	97		40 - 130				07/01/25 14:27	07/02/25 10:46	1
13C9 PFNA	99		40 - 130				07/01/25 14:27	07/02/25 10:46	1
13C6 PFDA	91		40 - 130				07/01/25 14:27	07/02/25 10:46	1
13C7 PFUnA	81		30 - 130				07/01/25 14:27	07/02/25 10:46	1
13C2 PFDoA	80		10 - 130				07/01/25 14:27	07/02/25 10:46	1
13C2 PFTeDA	68		10 - 130				07/01/25 14:27	07/02/25 10:46	1
13C3 PFBS	97		40 - 135				07/01/25 14:27	07/02/25 10:46	1
13C3 PFHxS	102		40 - 130				07/01/25 14:27	07/02/25 10:46	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 4959-County Rd-06

Lab Sample ID: 410-226305-1

Date Collected: 06/04/25 11:40

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	101		40 - 130	07/01/25 14:27	07/02/25 10:46	1
13C8 FOSA	92		40 - 130	07/01/25 14:27	07/02/25 10:46	1
d3-NMeFOSAA	100		40 - 170	07/01/25 14:27	07/02/25 10:46	1
d5-NEtFOSAA	97		25 - 135	07/01/25 14:27	07/02/25 10:46	1
13C2 4:2 FTS	96		40 - 200	07/01/25 14:27	07/02/25 10:46	1
13C2 6:2 FTS	104		40 - 200	07/01/25 14:27	07/02/25 10:46	1
13C2 8:2 FTS	95		40 - 300	07/01/25 14:27	07/02/25 10:46	1
13C3 HFPO-DA	97		40 - 130	07/01/25 14:27	07/02/25 10:46	1
d7-N-MeFOSE-M	72		10 - 130	07/01/25 14:27	07/02/25 10:46	1
d9-N-EtFOSE-M	62		10 - 130	07/01/25 14:27	07/02/25 10:46	1
d5-NEtPFOSA	56		10 - 130	07/01/25 14:27	07/02/25 10:46	1
d3-NMePFOSA	57		10 - 130	07/01/25 14:27	07/02/25 10:46	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	49		3.0	0.82	ng/L		06/11/25 06:46	06/12/25 19:25	1
Perfluoropentanoic acid (PFPA)	29		1.5	0.45	ng/L		06/11/25 06:46	06/12/25 19:25	1
Perfluorohexanoic acid (PFHxA)	26		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:25	1
Perfluoroheptanoic acid (PFHpA)	20		1.5	0.60	ng/L		06/11/25 06:46	06/12/25 19:25	1
Perfluorooctanoic acid (PFOA)	71		1.5	0.67	ng/L		06/11/25 06:46	06/12/25 19:25	1
Perfluorononanoic acid (PFNA)	0.60 J		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:25	1
Perfluorodecanoic acid (PFDA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:25	1
Perfluoroundecanoic acid (PFUnA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:25	1
Perfluorododecanoic acid (PFDoA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:25	1
Perfluorotridecanoic acid (PFTriDA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:25	1
Perfluorotetradecanoic acid (PFTeDA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:25	1
Perfluorobutanesulfonic acid (PFBS)	11		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:25	1
Perfluoropentanesulfonic acid (PFPeS)	0.85 J		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:25	1
Perfluorohexanesulfonic acid (PFHxS)	16		1.5	0.60	ng/L		06/11/25 06:46	06/12/25 19:25	1
Perfluoroheptanesulfonic acid (PFHpS)	0.88 J		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:25	1
Perfluorooctanesulfonic acid (PFOS)	7.9 I cn		1.5	0.97	ng/L		06/11/25 06:46	06/12/25 19:25	1
Perfluorononanesulfonic acid (PFNS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:25	1
Perfluorodecanesulfonic acid (PFDS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:25	1
Perfluorododecanesulfonic acid (PFDoS)	<0.45		1.5	0.45	ng/L		06/11/25 06:46	06/12/25 19:25	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.75		3.0	0.75	ng/L		06/11/25 06:46	06/12/25 19:25	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.75		3.0	0.75	ng/L		06/11/25 06:46	06/12/25 19:25	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.75		3.0	0.75	ng/L		06/11/25 06:46	06/12/25 19:25	1
Perfluorooctanesulfonamide (PFOSA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:25	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:25	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:25	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 4959-County Rd-06

Lab Sample ID: 410-226305-1

Date Collected: 06/04/25 11:40

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:25	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<1.9		7.5	1.9	ng/L		06/11/25 06:46	06/12/25 19:25	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<3.0		7.5	3.0	ng/L		06/11/25 06:46	06/12/25 19:25	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.0		1.5	1.0	ng/L		06/11/25 06:46	06/12/25 19:25	1
4,8-Dioxo-3H-perfluorononanoic acid (DONA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:25	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:25	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:25	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:25	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:25	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:25	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:25	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.75		3.0	0.75	ng/L		06/11/25 06:46	06/12/25 19:25	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.1		7.5	2.1	ng/L		06/11/25 06:46	06/12/25 19:25	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<1.9		7.5	1.9	ng/L		06/11/25 06:46	06/12/25 19:25	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	93.9		5 - 130	06/11/25 06:46	06/12/25 19:25	1
13C5-PFPeA	88.9		40 - 130	06/11/25 06:46	06/12/25 19:25	1
13C5-PFHxA	86.5		40 - 130	06/11/25 06:46	06/12/25 19:25	1
13C4-PFHpA	88.9		40 - 130	06/11/25 06:46	06/12/25 19:25	1
13C8-PFOA	93.4		40 - 130	06/11/25 06:46	06/12/25 19:25	1
13C9-PFNA	87.7		40 - 130	06/11/25 06:46	06/12/25 19:25	1
13C6-PFDA	89.8		40 - 130	06/11/25 06:46	06/12/25 19:25	1
13C7-PFUnA	94.3		30 - 130	06/11/25 06:46	06/12/25 19:25	1
13C2-PFTeDA	80.4		10 - 130	06/11/25 06:46	06/12/25 19:25	1
13C3-PFBS	94.9		40 - 135	06/11/25 06:46	06/12/25 19:25	1
13C3-PFHxS	91.4		40 - 130	06/11/25 06:46	06/12/25 19:25	1
13C8-PFOS	90.6		40 - 130	06/11/25 06:46	06/12/25 19:25	1
13C8-PFOSA	77.8		40 - 130	06/11/25 06:46	06/12/25 19:25	1
d3-NMeFOSAA	86.3		40 - 170	06/11/25 06:46	06/12/25 19:25	1
d5-NEtFOSAA	73.0		25 - 135	06/11/25 06:46	06/12/25 19:25	1
13C2-4:2 FTS	109		40 - 200	06/11/25 06:46	06/12/25 19:25	1
13C2-6:2 FTS	95.5		40 - 200	06/11/25 06:46	06/12/25 19:25	1
13C2-8:2 FTS	80.7		40 - 300	06/11/25 06:46	06/12/25 19:25	1
13C3-HFPO-DA	80.1		40 - 130	06/11/25 06:46	06/12/25 19:25	1
D7-NMeFOSE	78.3		10 - 130	06/11/25 06:46	06/12/25 19:25	1
D9-NEtFOSE	79.5		10 - 130	06/11/25 06:46	06/12/25 19:25	1
d5-NEtPFOSA	69.3		10 - 130	06/11/25 06:46	06/12/25 19:25	1
d3-NMePFOSA	73.8		10 - 130	06/11/25 06:46	06/12/25 19:25	1
13C2 PFDoA	95.3		10 - 130	06/11/25 06:46	06/12/25 19:25	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 4959-County Rd-06

Lab Sample ID: 410-226305-1

Date Collected: 06/04/25 11:40

Matrix: Water

Date Received: 06/07/25 10:35

Method: TAL SOP Total PFCA-Dif - Total PFCA (Treatment Difference)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	110				ng/L			07/03/25 10:24	1
Perfluorobutanoic acid (PFBA)	11				ng/L			07/03/25 10:24	1
Perfluoroheptanoic acid (PFHpA)	32				ng/L			07/03/25 10:24	1
Perfluorohexanoic acid (PFHxA)	14				ng/L			07/03/25 10:24	1
Perfluorononanoic acid (PFNA)	9.7				ng/L			07/03/25 10:24	1
Perfluorooctanoic acid (PFOA)	31				ng/L			07/03/25 10:24	1
Perfluoropentanoic acid (PFPA)	12				ng/L			07/03/25 10:24	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	200	J	500	0.20	ng/L			06/12/25 19:25	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	300	J	500	0.20	ng/L			06/20/25 16:07	1

Client Sample ID: 2053-49th-07

Lab Sample ID: 410-226305-2

Date Collected: 06/04/25 11:50

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<5.5		20	5.5	ng/L		06/18/25 10:41	06/20/25 16:21	1
Perfluoropentanoic acid (PFPA)	8.9	J	10	3.0	ng/L		06/18/25 10:41	06/20/25 16:21	1
Perfluorohexanoic acid (PFHxA)	16		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:21	1
Perfluoroheptanoic acid (PFHpA)	27		10	4.0	ng/L		06/18/25 10:41	06/20/25 16:21	1
Perfluorooctanoic acid (PFOA)	23		10	4.5	ng/L		06/18/25 10:41	06/20/25 16:21	1
Perfluorononanoic acid (PFNA)	11		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:21	1
Perfluorodecanoic acid (PFDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:21	1
Perfluoroundecanoic acid (PFUnA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:21	1
Perfluorododecanoic acid (PFDoA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:21	1
Perfluorotridecanoic acid (PFTrDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:21	1
Perfluorotetradecanoic acid (PFTeDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:21	1
Perfluorobutanesulfonic acid (PFBS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:21	1
Perfluoropentanesulfonic acid (PFPeS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:21	1
Perfluorohexanesulfonic acid (PFHxS)	<4.0		10	4.0	ng/L		06/18/25 10:41	06/20/25 16:21	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:21	1
Perfluorooctanesulfonic acid (PFOS)	<6.5		10	6.5	ng/L		06/18/25 10:41	06/20/25 16:21	1
Perfluorononanesulfonic acid (PFNS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:21	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		10	3.0	ng/L		06/18/25 10:41	06/20/25 16:21	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 16:21	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 16:21	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 16:21	1
Perfluorooctanesulfonamide (PFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:21	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:21	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 2053-49th-07

Lab Sample ID: 410-226305-2

Date Collected: 06/04/25 11:50

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:21	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:21	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:21	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<13		50	13	ng/L		06/18/25 10:41	06/20/25 16:21	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<20		50	20	ng/L		06/18/25 10:41	06/20/25 16:21	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<7.0		10	7.0	ng/L		06/18/25 10:41	06/20/25 16:21	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:21	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:21	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:21	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:21	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:21	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:21	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:21	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 16:21	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<14		50	14	ng/L		06/18/25 10:41	06/20/25 16:21	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<13		50	13	ng/L		06/18/25 10:41	06/20/25 16:21	1
Perfluorodecanesulfonic acid (PFDS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 16:21	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	83.3		10 - 130				06/18/25 10:41	06/20/25 16:21	1
13C5-PFPeA	83.1		35 - 150				06/18/25 10:41	06/20/25 16:21	1
13C5-PFHxA	86.3		55 - 150				06/18/25 10:41	06/20/25 16:21	1
13C4-PFHpA	85.6		55 - 150				06/18/25 10:41	06/20/25 16:21	1
13C9-PFNA	82.0		55 - 140				06/18/25 10:41	06/20/25 16:21	1
13C6-PFDA	90.3		50 - 140				06/18/25 10:41	06/20/25 16:21	1
13C7-PFUnA	84.2		30 - 140				06/18/25 10:41	06/20/25 16:21	1
13C2-PFDoA	78.3		10 - 150				06/18/25 10:41	06/20/25 16:21	1
13C2-PFTeDA	68.6		10 - 130				06/18/25 10:41	06/20/25 16:21	1
13C3-PFBS	87.8		55 - 150				06/18/25 10:41	06/20/25 16:21	1
13C3-PFHxS	86.1		55 - 150				06/18/25 10:41	06/20/25 16:21	1
13C8-PFOS	88.0		45 - 140				06/18/25 10:41	06/20/25 16:21	1
13C8-PFOSA	0.267		0 - 10				06/18/25 10:41	06/20/25 16:21	1
d3-NMeFOSAA	103		45 - 200				06/18/25 10:41	06/20/25 16:21	1
d5-NEtFOSAA	113		10 - 200				06/18/25 10:41	06/20/25 16:21	1
13C2-4:2 FTS	91.1		60 - 200				06/18/25 10:41	06/20/25 16:21	1
13C2-6:2 FTS	99.8		60 - 200				06/18/25 10:41	06/20/25 16:21	1
13C2-8:2 FTS	94.7		50 - 200				06/18/25 10:41	06/20/25 16:21	1
13C3-HFPO-DA	78.6		25 - 160				06/18/25 10:41	06/20/25 16:21	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 2053-49th-07

Lab Sample ID: 410-226305-2

Date Collected: 06/04/25 11:50

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
D7-NMeFOSE	58.3		10 - 150	06/18/25 10:41	06/20/25 16:21	1
D9-NEtFOSE	55.1		10 - 150	06/18/25 10:41	06/20/25 16:21	1
d5-NEtPFOSA	76.2		10 - 130	06/18/25 10:41	06/20/25 16:21	1
d3-NMePFOSA	82.1		15 - 130	06/18/25 10:41	06/20/25 16:21	1
13C2 PFOA	86.1		40 - 130	06/18/25 10:41	06/20/25 16:21	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	67		50 - 150	06/18/25 10:41	06/20/25 16:21	1
M3PFPeA	75		50 - 150	06/18/25 10:41	06/20/25 16:21	1

Method: EPA 1633_BLT - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.0		3.0	0.84	ng/L		07/01/25 14:27	07/02/25 10:59	1
Perfluoropentanoic acid (PFPeA)	<0.46		1.5	0.46	ng/L		07/01/25 14:27	07/02/25 10:59	1
Perfluorohexanoic acid (PFHxA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Perfluoroheptanoic acid (PFHpA)	<0.61		1.5	0.61	ng/L		07/01/25 14:27	07/02/25 10:59	1
Perfluorodecanoic acid (PFDA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Perfluoroundecanoic acid (PFUnA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Perfluorododecanoic acid (PFDoA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Perfluorotridecanoic acid (PFTTrDA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Perfluorotetradecanoic acid (PFTeDA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Perfluorobutanesulfonic acid (PFBS)	0.53 J		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Perfluoropentanesulfonic acid (PFPeS)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Perfluorononanesulfonic acid (PFNS)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Perfluorodecanesulfonic acid (PFDS)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Perfluorododecanesulfonic acid (PFDoS)	<0.46		1.5	0.46	ng/L		07/01/25 14:27	07/02/25 10:59	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.76		3.0	0.76	ng/L		07/01/25 14:27	07/02/25 10:59	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.76		3.0	0.76	ng/L		07/01/25 14:27	07/02/25 10:59	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.76		3.0	0.76	ng/L		07/01/25 14:27	07/02/25 10:59	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.1		1.5	1.1	ng/L		07/01/25 14:27	07/02/25 10:59	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9CI-PF3ONS)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11CI-PF3OUdS)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 2053-49th-07

Lab Sample ID: 410-226305-2

Date Collected: 06/04/25 11:50

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.76		3.0	0.76	ng/L		07/01/25 14:27	07/02/25 10:59	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.1		7.6	2.1	ng/L		07/01/25 14:27	07/02/25 10:59	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<1.9		7.6	1.9	ng/L		07/01/25 14:27	07/02/25 10:59	1
Br-Perfluorooctanoic acid (Br-PFOA)	<0.68		1.5	0.68	ng/L		07/01/25 14:27	07/02/25 10:59	1
L-Perfluorooctanoic acid (L-PFOA)	<0.68		1.5	0.68	ng/L		07/01/25 14:27	07/02/25 10:59	1
Total PFOA	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Br-Perfluorononanoic acid (Br-PFNA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
L-Perfluorononanoic acid (L-PFNA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Total PFNA	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	<0.61		1.5	0.61	ng/L		07/01/25 14:27	07/02/25 10:59	1
L-Perfluorohexanesulfonic acid (L-PFHxS)	<0.61		1.5	0.61	ng/L		07/01/25 14:27	07/02/25 10:59	1
Total PFHxS	<0.61		1.5	0.61	ng/L		07/01/25 14:27	07/02/25 10:59	1
Br-Perfluorooctanesulfonic acid (PFOS)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
L-Perfluorooctanesulfonic acid (PFOS)	<0.99		1.5	0.99	ng/L		07/01/25 14:27	07/02/25 10:59	1
Total PFOS	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Br-N-methylperfluorooctanesulfonamidoacetic acid (Br-NMeFOSAA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
L-N-methylperfluorooctanesulfonamidoacetic acid (L-NMeFOSAA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Total NMeFOSAA	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid (Br-NEtFOSAA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
L-N-ethylperfluorooctanesulfonamidoacetic acid (L-NEtFOSAA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Total NEtFOSAA	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Br-N-ethylperfluorooctane sulfonamide (Br-NEtFOSA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
L-N-ethylperfluorooctane sulfonamide (L-NEtFOSA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Total NEtFOSA	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Br-N-methylperfluorooctane sulfonamide (Br-NMeFOSA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
L-N-methylperfluorooctane sulfonamide (L-NMeFOSA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Total NMeFOSA	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Br-Perfluorooctanesulfonamide (PFOSA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
L-Perfluorooctanesulfonamide (L-PFOSA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Total PFOSA	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 10:59	1
Br-2-(N-ethylperfluoro-1-octanesulfonamido) ethanol (Br-NEtFOSE)	<1.9		7.6	1.9	ng/L		07/01/25 14:27	07/02/25 10:59	1
L-N-ethylperfluorooctane sulfonamidoethanol (L-NEtFOSE)	<3.0		7.6	3.0	ng/L		07/01/25 14:27	07/02/25 10:59	1
Total NEtFOSE	<1.9		7.6	1.9	ng/L		07/01/25 14:27	07/02/25 10:59	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 2053-49th-07

Lab Sample ID: 410-226305-2

Date Collected: 06/04/25 11:50

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Br-2- (N-methylperfluoro-1-octanesulfonami do) ethanol (Br-NMeFOSE)	<1.9		7.6	1.9	ng/L		07/01/25 14:27	07/02/25 10:59	1
L-N-methylperfluorooctane sulfonamidoethanol (L-NMeFOSE)	<1.9		7.6	1.9	ng/L		07/01/25 14:27	07/02/25 10:59	1
Total NMeFOSE	<1.9		7.6	1.9	ng/L		07/01/25 14:27	07/02/25 10:59	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	103		5 - 130				07/01/25 14:27	07/02/25 10:59	1
13C5 PFPeA	108		40 - 130				07/01/25 14:27	07/02/25 10:59	1
13C5 PFHxA	103		40 - 130				07/01/25 14:27	07/02/25 10:59	1
13C4 PFHpA	101		40 - 130				07/01/25 14:27	07/02/25 10:59	1
13C8 PFOA	108		40 - 130				07/01/25 14:27	07/02/25 10:59	1
13C9 PFNA	102		40 - 130				07/01/25 14:27	07/02/25 10:59	1
13C6 PFDA	96		40 - 130				07/01/25 14:27	07/02/25 10:59	1
13C7 PFUnA	87		30 - 130				07/01/25 14:27	07/02/25 10:59	1
13C2 PFDoA	81		10 - 130				07/01/25 14:27	07/02/25 10:59	1
13C2 PFTeDA	70		10 - 130				07/01/25 14:27	07/02/25 10:59	1
13C3 PFBS	105		40 - 135				07/01/25 14:27	07/02/25 10:59	1
13C3 PFHxS	99		40 - 130				07/01/25 14:27	07/02/25 10:59	1
13C8 PFOS	100		40 - 130				07/01/25 14:27	07/02/25 10:59	1
13C8 FOSA	85		40 - 130				07/01/25 14:27	07/02/25 10:59	1
d3-NMeFOSAA	94		40 - 170				07/01/25 14:27	07/02/25 10:59	1
d5-NEtFOSAA	85		25 - 135				07/01/25 14:27	07/02/25 10:59	1
13C2 4:2 FTS	102		40 - 200				07/01/25 14:27	07/02/25 10:59	1
13C2 6:2 FTS	109		40 - 200				07/01/25 14:27	07/02/25 10:59	1
13C2 8:2 FTS	96		40 - 300				07/01/25 14:27	07/02/25 10:59	1
13C3 HFPO-DA	103		40 - 130				07/01/25 14:27	07/02/25 10:59	1
d7-N-MeFOSE-M	66		10 - 130				07/01/25 14:27	07/02/25 10:59	1
d9-N-EtFOSE-M	60		10 - 130				07/01/25 14:27	07/02/25 10:59	1
d5-NEtPFOSA	55		10 - 130				07/01/25 14:27	07/02/25 10:59	1
d3-NMePFOSA	58		10 - 130				07/01/25 14:27	07/02/25 10:59	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.7		3.0	0.82	ng/L		06/11/25 06:46	06/12/25 19:39	1
Perfluoropentanoic acid (PFPA)	<0.45		1.5	0.45	ng/L		06/11/25 06:46	06/12/25 19:39	1
Perfluorohexanoic acid (PFHxA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:39	1
Perfluoroheptanoic acid (PFHpA)	<0.60		1.5	0.60	ng/L		06/11/25 06:46	06/12/25 19:39	1
Perfluorooctanoic acid (PFOA)	<0.67		1.5	0.67	ng/L		06/11/25 06:46	06/12/25 19:39	1
Perfluorononanoic acid (PFNA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:39	1
Perfluorodecanoic acid (PFDA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:39	1
Perfluoroundecanoic acid (PFUnA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:39	1
Perfluorododecanoic acid (PFDoA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:39	1
Perfluorotridecanoic acid (PFTTrDA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:39	1
Perfluorotetradecanoic acid (PFTeDA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:39	1
Perfluorobutanesulfonic acid (PFBS)	0.57 J		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:39	1
Perfluoropentanesulfonic acid (PFPeS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:39	1
Perfluorohexanesulfonic acid (PFHxS)	<0.60		1.5	0.60	ng/L		06/11/25 06:46	06/12/25 19:39	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 2053-49th-07

Lab Sample ID: 410-226305-2

Date Collected: 06/04/25 11:50

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic acid (PFHpS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:39	1
Perfluorooctanesulfonic acid (PFOS)	<0.97		1.5	0.97	ng/L		06/11/25 06:46	06/12/25 19:39	1
Perfluorononanesulfonic acid (PFNS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:39	1
Perfluorodecanesulfonic acid (PFDS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:39	1
Perfluorododecanesulfonic acid (PFDoS)	<0.45		1.5	0.45	ng/L		06/11/25 06:46	06/12/25 19:39	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.75		3.0	0.75	ng/L		06/11/25 06:46	06/12/25 19:39	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.75		3.0	0.75	ng/L		06/11/25 06:46	06/12/25 19:39	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.75		3.0	0.75	ng/L		06/11/25 06:46	06/12/25 19:39	1
Perfluorooctanesulfonamide (PFOSA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:39	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:39	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:39	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:39	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<1.9		7.5	1.9	ng/L		06/11/25 06:46	06/12/25 19:39	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<3.0		7.5	3.0	ng/L		06/11/25 06:46	06/12/25 19:39	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.0		1.5	1.0	ng/L		06/11/25 06:46	06/12/25 19:39	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:39	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:39	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:39	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:39	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:39	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:39	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:39	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.75		3.0	0.75	ng/L		06/11/25 06:46	06/12/25 19:39	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.1		7.5	2.1	ng/L		06/11/25 06:46	06/12/25 19:39	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<1.9		7.5	1.9	ng/L		06/11/25 06:46	06/12/25 19:39	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	89.4		5 - 130				06/11/25 06:46	06/12/25 19:39	1
13C5-PFPeA	85.2		40 - 130				06/11/25 06:46	06/12/25 19:39	1
13C5-PFHxA	83.4		40 - 130				06/11/25 06:46	06/12/25 19:39	1
13C4-PFHpA	86.9		40 - 130				06/11/25 06:46	06/12/25 19:39	1
13C8-PFOA	86.2		40 - 130				06/11/25 06:46	06/12/25 19:39	1
13C9-PFNA	85.3		40 - 130				06/11/25 06:46	06/12/25 19:39	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 2053-49th-07

Lab Sample ID: 410-226305-2

Date Collected: 06/04/25 11:50

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-PFDA	82.8		40 - 130	06/11/25 06:46	06/12/25 19:39	1
13C7-PFUnA	94.5		30 - 130	06/11/25 06:46	06/12/25 19:39	1
13C2-PFTeDA	82.8		10 - 130	06/11/25 06:46	06/12/25 19:39	1
13C3-PFBS	88.8		40 - 135	06/11/25 06:46	06/12/25 19:39	1
13C3-PFHxS	83.4		40 - 130	06/11/25 06:46	06/12/25 19:39	1
13C8-PFOS	86.7		40 - 130	06/11/25 06:46	06/12/25 19:39	1
13C8-PFOSA	73.9		40 - 130	06/11/25 06:46	06/12/25 19:39	1
d3-NMeFOSAA	76.0		40 - 170	06/11/25 06:46	06/12/25 19:39	1
d5-NEtFOSAA	68.5		25 - 135	06/11/25 06:46	06/12/25 19:39	1
13C2-4:2 FTS	96.1		40 - 200	06/11/25 06:46	06/12/25 19:39	1
13C2-6:2 FTS	91.2		40 - 200	06/11/25 06:46	06/12/25 19:39	1
13C2-8:2 FTS	79.6		40 - 300	06/11/25 06:46	06/12/25 19:39	1
13C3-HFPO-DA	83.3		40 - 130	06/11/25 06:46	06/12/25 19:39	1
D7-NMeFOSE	73.5		10 - 130	06/11/25 06:46	06/12/25 19:39	1
D9-NEtFOSE	75.9		10 - 130	06/11/25 06:46	06/12/25 19:39	1
d5-NEtPFOSA	65.7		10 - 130	06/11/25 06:46	06/12/25 19:39	1
d3-NMePFOSA	69.4		10 - 130	06/11/25 06:46	06/12/25 19:39	1
13C2 PFDoA	86.5		10 - 130	06/11/25 06:46	06/12/25 19:39	1

Method: TAL SOP Total PFCA-Dif - Total PFCA (Treatment Difference)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	80				ng/L			07/03/25 10:24	1
Perfluorobutanoic acid (PFBA)	0.00				ng/L			07/03/25 10:24	1
Perfluoroheptanoic acid (PFHpA)	27				ng/L			07/03/25 10:24	1
Perfluorohexanoic acid (PFHxA)	16				ng/L			07/03/25 10:24	1
Perfluorononanoic acid (PFNA)	11				ng/L			07/03/25 10:24	1
Perfluorooctanoic acid (PFOA)	23				ng/L			07/03/25 10:24	1
Perfluoropentanoic acid (PFPA)	8.9				ng/L			07/03/25 10:24	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	5.7	J	500	0.20	ng/L			06/12/25 19:39	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	86	J	500	0.20	ng/L			06/20/25 16:21	1

Client Sample ID: 1950-49th-08

Lab Sample ID: 410-226305-3

Date Collected: 06/04/25 12:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<5.4		20	5.4	ng/L		06/18/25 10:41	06/20/25 16:35	1
Perfluoropentanoic acid (PFPA)	8.2	J	9.8	3.0	ng/L		06/18/25 10:41	06/20/25 16:35	1
Perfluorohexanoic acid (PFHxA)	10		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 16:35	1
Perfluoroheptanoic acid (PFHpA)	16		9.8	3.9	ng/L		06/18/25 10:41	06/20/25 16:35	1
Perfluorooctanoic acid (PFOA)	14		9.8	4.4	ng/L		06/18/25 10:41	06/20/25 16:35	1
Perfluorononanoic acid (PFNA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 16:35	1
Perfluorodecanoic acid (PFDA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 16:35	1
Perfluoroundecanoic acid (PFUnA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 16:35	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1950-49th-08

Lab Sample ID: 410-226305-3

Date Collected: 06/04/25 12:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid (PFDoA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 16:35	1
Perfluorotridecanoic acid (PFTrDA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 16:35	1
Perfluorotetradecanoic acid (PFTeDA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 16:35	1
Perfluorobutanesulfonic acid (PFBS)	4.5	J	9.8	2.5	ng/L		06/18/25 10:41	06/20/25 16:35	1
Perfluoropentanesulfonic acid (PFPeS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 16:35	1
Perfluorohexanesulfonic acid (PFHxS)	<3.9		9.8	3.9	ng/L		06/18/25 10:41	06/20/25 16:35	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 16:35	1
Perfluorooctanesulfonic acid (PFOS)	<6.4		9.8	6.4	ng/L		06/18/25 10:41	06/20/25 16:35	1
Perfluorononanesulfonic acid (PFNS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 16:35	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		9.8	3.0	ng/L		06/18/25 10:41	06/20/25 16:35	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 16:35	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 16:35	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 16:35	1
Perfluorooctanesulfonamide (PFOSA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 16:35	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 16:35	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 16:35	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 16:35	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 16:35	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<12		49	12	ng/L		06/18/25 10:41	06/20/25 16:35	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<20		49	20	ng/L		06/18/25 10:41	06/20/25 16:35	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<6.9		9.8	6.9	ng/L		06/18/25 10:41	06/20/25 16:35	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 16:35	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 16:35	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 16:35	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 16:35	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 16:35	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 16:35	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 16:35	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 16:35	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<14		49	14	ng/L		06/18/25 10:41	06/20/25 16:35	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<12		49	12	ng/L		06/18/25 10:41	06/20/25 16:35	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1950-49th-08

Lab Sample ID: 410-226305-3

Date Collected: 06/04/25 12:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanesulfonic acid (PFDS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 16:35	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	93.4		10 - 130				06/18/25 10:41	06/20/25 16:35	1
13C5-PFPeA	90.7		35 - 150				06/18/25 10:41	06/20/25 16:35	1
13C5-PFHxA	99.9		55 - 150				06/18/25 10:41	06/20/25 16:35	1
13C4-PFHpA	95.5		55 - 150				06/18/25 10:41	06/20/25 16:35	1
13C9-PFNA	90.1		55 - 140				06/18/25 10:41	06/20/25 16:35	1
13C6-PFDA	99.9		50 - 140				06/18/25 10:41	06/20/25 16:35	1
13C7-PFUnA	95.3		30 - 140				06/18/25 10:41	06/20/25 16:35	1
13C2 PFDoA	83.6		10 - 150				06/18/25 10:41	06/20/25 16:35	1
13C2-PFTeDA	77.1		10 - 130				06/18/25 10:41	06/20/25 16:35	1
13C3-PFBS	92.9		55 - 150				06/18/25 10:41	06/20/25 16:35	1
13C3-PFHxS	95.5		55 - 150				06/18/25 10:41	06/20/25 16:35	1
13C8-PFOS	98.4		45 - 140				06/18/25 10:41	06/20/25 16:35	1
13C8-PFOSA	0.316		0 - 10				06/18/25 10:41	06/20/25 16:35	1
d3-NMeFOSAA	113		45 - 200				06/18/25 10:41	06/20/25 16:35	1
d5-NEtFOSAA	134		10 - 200				06/18/25 10:41	06/20/25 16:35	1
13C2-4:2 FTS	96.8		60 - 200				06/18/25 10:41	06/20/25 16:35	1
13C2-6:2 FTS	109		60 - 200				06/18/25 10:41	06/20/25 16:35	1
13C2-8:2 FTS	101		50 - 200				06/18/25 10:41	06/20/25 16:35	1
13C3-HFPO-DA	88.7		25 - 160				06/18/25 10:41	06/20/25 16:35	1
D7-NMeFOSE	60.7		10 - 150				06/18/25 10:41	06/20/25 16:35	1
D9-NEtFOSE	58.9		10 - 150				06/18/25 10:41	06/20/25 16:35	1
d5-NEtPFOSA	88.4		10 - 130				06/18/25 10:41	06/20/25 16:35	1
d3-NMePFOSA	94.8		15 - 130				06/18/25 10:41	06/20/25 16:35	1
13C2 PFOA	95.2		40 - 130				06/18/25 10:41	06/20/25 16:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFUnA	76		50 - 150				06/18/25 10:41	06/20/25 16:35	1
M3PFPeA	83		50 - 150				06/18/25 10:41	06/20/25 16:35	1

Method: EPA 1633_BLT - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	17		2.8	0.77	ng/L		07/01/25 14:27	07/02/25 11:13	1
Perfluoropentanoic acid (PFPeA)	2.0		1.4	0.42	ng/L		07/01/25 14:27	07/02/25 11:13	1
Perfluorohexanoic acid (PFHxA)	1.2 J		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
Perfluoroheptanoic acid (PFHpA)	<0.56		1.4	0.56	ng/L		07/01/25 14:27	07/02/25 11:13	1
Perfluorodecanoic acid (PFDA)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
Perfluoroundecanoic acid (PFUnA)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
Perfluorododecanoic acid (PFDoA)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
Perfluorotridecanoic acid (PFTTrDA)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
Perfluorotetradecanoic acid (PFTeDA)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
Perfluorobutanesulfonic acid (PFBS)	3.5		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
Perfluoropentanesulfonic acid (PFPeS)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
Perfluorodecanesulfonic acid (PFDS)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1950-49th-08

Lab Sample ID: 410-226305-3

Date Collected: 06/04/25 12:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	<0.42		1.4	0.42	ng/L		07/01/25 14:27	07/02/25 11:13	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.70		2.8	0.70	ng/L		07/01/25 14:27	07/02/25 11:13	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.70		2.8	0.70	ng/L		07/01/25 14:27	07/02/25 11:13	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.70		2.8	0.70	ng/L		07/01/25 14:27	07/02/25 11:13	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.98		1.4	0.98	ng/L		07/01/25 14:27	07/02/25 11:13	1
4,8-Dioxo-3H-perfluorononanoic acid (DONA)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.70		2.8	0.70	ng/L		07/01/25 14:27	07/02/25 11:13	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.0		7.0	2.0	ng/L		07/01/25 14:27	07/02/25 11:13	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<1.7		7.0	1.7	ng/L		07/01/25 14:27	07/02/25 11:13	1
Br-Perfluorooctanoic acid (Br-PFOA)	<0.63		1.4	0.63	ng/L		07/01/25 14:27	07/02/25 11:13	1
L-Perfluorooctanoic acid (L-PFOA)	<0.63		1.4	0.63	ng/L		07/01/25 14:27	07/02/25 11:13	1
Total PFOA	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
Br-Perfluorononanoic acid (Br-PFNA)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
L-Perfluorononanoic acid (L-PFNA)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
Total PFNA	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	<0.56		1.4	0.56	ng/L		07/01/25 14:27	07/02/25 11:13	1
L-Perfluorohexanesulfonic acid (L-PFHxS)	<0.56		1.4	0.56	ng/L		07/01/25 14:27	07/02/25 11:13	1
Total PFHxS	<0.56		1.4	0.56	ng/L		07/01/25 14:27	07/02/25 11:13	1
Br-Perfluorooctanesulfonic acid (PFOS)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
L-Perfluorooctanesulfonic acid (PFOS)	<0.91		1.4	0.91	ng/L		07/01/25 14:27	07/02/25 11:13	1
Total PFOS	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
Br-N-methylperfluorooctanesulfonami doacetic acid (Br-NMeFOSAA)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
L-N-methylperfluorooctanesulfonamid oacetic acid (L-NMeFOSAA)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
Total NMeFOSAA	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
Br-N-ethylperfluorooctanesulfonamido acetic acid (Br-NEtFOSAA)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
L-N-ethylperfluorooctanesulfonamido acetic acid (L-NEtFOSAA)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1950-49th-08

Lab Sample ID: 410-226305-3

Date Collected: 06/04/25 12:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total NEtFOSAA	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
Br-N-ethylperfluorooctane sulfonamide (Br-NEtFOSA)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
L-N-ethylperfluorooctane sulfonamide (L-NEtFOSA)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
Total NEtFOSA	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
Br-N-methylperfluorooctane sulfonamide (Br-NMeFOSA)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
L-N-methylperfluorooctane sulfonamide (L-NMeFOSA)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
Total NMeFOSA	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
Br-Perfluorooctanesulfonamide (PFOSA)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
L-Perfluorooctanesulfonamide (L-PFOSA)	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
Total PFOSA	<0.35		1.4	0.35	ng/L		07/01/25 14:27	07/02/25 11:13	1
Br-2-(N-ethylperfluoro-1-octanesulfonamido) ethanol (Br-NEtFOSE)	<1.7		7.0	1.7	ng/L		07/01/25 14:27	07/02/25 11:13	1
L-N-ethylperfluorooctane sulfonamidoethanol (L-NEtFOSE)	<2.8		7.0	2.8	ng/L		07/01/25 14:27	07/02/25 11:13	1
Total NEtFOSE	<1.7		7.0	1.7	ng/L		07/01/25 14:27	07/02/25 11:13	1
Br-2-(N-methylperfluoro-1-octanesulfonamido) ethanol (Br-NMeFOSE)	<1.7		7.0	1.7	ng/L		07/01/25 14:27	07/02/25 11:13	1
L-N-methylperfluorooctane sulfonamidoethanol (L-NMeFOSE)	<1.7		7.0	1.7	ng/L		07/01/25 14:27	07/02/25 11:13	1
Total NMeFOSE	<1.7		7.0	1.7	ng/L		07/01/25 14:27	07/02/25 11:13	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	107		5 - 130				07/01/25 14:27	07/02/25 11:13	1
13C5 PFPeA	111		40 - 130				07/01/25 14:27	07/02/25 11:13	1
13C5 PFHxA	116		40 - 130				07/01/25 14:27	07/02/25 11:13	1
13C4 PFHpA	109		40 - 130				07/01/25 14:27	07/02/25 11:13	1
13C8 PFOA	109		40 - 130				07/01/25 14:27	07/02/25 11:13	1
13C9 PFNA	106		40 - 130				07/01/25 14:27	07/02/25 11:13	1
13C6 PFDA	109		40 - 130				07/01/25 14:27	07/02/25 11:13	1
13C7 PFUnA	104		30 - 130				07/01/25 14:27	07/02/25 11:13	1
13C2 PFDoA	97		10 - 130				07/01/25 14:27	07/02/25 11:13	1
13C2 PFTeDA	86		10 - 130				07/01/25 14:27	07/02/25 11:13	1
13C3 PFBS	109		40 - 135				07/01/25 14:27	07/02/25 11:13	1
13C3 PFHxS	109		40 - 130				07/01/25 14:27	07/02/25 11:13	1
13C8 PFOS	112		40 - 130				07/01/25 14:27	07/02/25 11:13	1
13C8 FOSA	102		40 - 130				07/01/25 14:27	07/02/25 11:13	1
d3-NMeFOSAA	108		40 - 170				07/01/25 14:27	07/02/25 11:13	1
d5-NEtFOSAA	104		25 - 135				07/01/25 14:27	07/02/25 11:13	1
13C2 4:2 FTS	103		40 - 200				07/01/25 14:27	07/02/25 11:13	1
13C2 6:2 FTS	117		40 - 200				07/01/25 14:27	07/02/25 11:13	1
13C2 8:2 FTS	103		40 - 300				07/01/25 14:27	07/02/25 11:13	1
13C3 HFPO-DA	103		40 - 130				07/01/25 14:27	07/02/25 11:13	1
d7-N-MeFOSE-M	72		10 - 130				07/01/25 14:27	07/02/25 11:13	1
d9-N-EtFOSE-M	63		10 - 130				07/01/25 14:27	07/02/25 11:13	1
d5-NEtPFOSA	63		10 - 130				07/01/25 14:27	07/02/25 11:13	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1950-49th-08

Lab Sample ID: 410-226305-3

Date Collected: 06/04/25 12:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMePFOSA	63		10 - 130	07/01/25 14:27	07/02/25 11:13	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	18		2.9	0.81	ng/L		06/11/25 06:46	06/12/25 19:52	1
Perfluoropentanoic acid (PFPA)	2.5		1.5	0.44	ng/L		06/11/25 06:46	06/12/25 19:52	1
Perfluorohexanoic acid (PFHxA)	1.6		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:52	1
Perfluoroheptanoic acid (PFHpA)	<0.59		1.5	0.59	ng/L		06/11/25 06:46	06/12/25 19:52	1
Perfluorooctanoic acid (PFOA)	<0.66		1.5	0.66	ng/L		06/11/25 06:46	06/12/25 19:52	1
Perfluorononanoic acid (PFNA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:52	1
Perfluorodecanoic acid (PFDA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:52	1
Perfluoroundecanoic acid (PFUnA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:52	1
Perfluorododecanoic acid (PFDoA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:52	1
Perfluorotridecanoic acid (PFTrDA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:52	1
Perfluorotetradecanoic acid (PFTeDA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:52	1
Perfluorobutanesulfonic acid (PFBS)	4.4		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:52	1
Perfluoropentanesulfonic acid (PFPeS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:52	1
Perfluorohexanesulfonic acid (PFHxS)	<0.59		1.5	0.59	ng/L		06/11/25 06:46	06/12/25 19:52	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:52	1
Perfluorooctanesulfonic acid (PFOS)	<0.96		1.5	0.96	ng/L		06/11/25 06:46	06/12/25 19:52	1
Perfluorononanesulfonic acid (PFNS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:52	1
Perfluorodecanesulfonic acid (PFDS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:52	1
Perfluorododecanesulfonic acid (PFDoS)	<0.44		1.5	0.44	ng/L		06/11/25 06:46	06/12/25 19:52	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.73		2.9	0.73	ng/L		06/11/25 06:46	06/12/25 19:52	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.73		2.9	0.73	ng/L		06/11/25 06:46	06/12/25 19:52	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.73		2.9	0.73	ng/L		06/11/25 06:46	06/12/25 19:52	1
Perfluorooctanesulfonamide (PFOSA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:52	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:52	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:52	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:52	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:52	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<1.8		7.3	1.8	ng/L		06/11/25 06:46	06/12/25 19:52	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<2.9		7.3	2.9	ng/L		06/11/25 06:46	06/12/25 19:52	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.0		1.5	1.0	ng/L		06/11/25 06:46	06/12/25 19:52	1
4,8-Dioxo-3H-perfluorononanoic acid (DONA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:52	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:52	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:52	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1950-49th-08

Lab Sample ID: 410-226305-3

Date Collected: 06/04/25 12:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:52	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9CI-PF3ONS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:52	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11CI-PF3OUdS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:52	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 19:52	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.73		2.9	0.73	ng/L		06/11/25 06:46	06/12/25 19:52	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.1		7.3	2.1	ng/L		06/11/25 06:46	06/12/25 19:52	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<1.8		7.3	1.8	ng/L		06/11/25 06:46	06/12/25 19:52	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	85.5		5 - 130	06/11/25 06:46	06/12/25 19:52	1
13C5-PFPeA	80.9		40 - 130	06/11/25 06:46	06/12/25 19:52	1
13C5-PFHxA	80.7		40 - 130	06/11/25 06:46	06/12/25 19:52	1
13C4-PFHpA	80.4		40 - 130	06/11/25 06:46	06/12/25 19:52	1
13C8-PFOA	79.3		40 - 130	06/11/25 06:46	06/12/25 19:52	1
13C9-PFNA	83.2		40 - 130	06/11/25 06:46	06/12/25 19:52	1
13C6-PFDA	84.7		40 - 130	06/11/25 06:46	06/12/25 19:52	1
13C7-PFUnA	95.6		30 - 130	06/11/25 06:46	06/12/25 19:52	1
13C2-PFTeDA	84.9		10 - 130	06/11/25 06:46	06/12/25 19:52	1
13C3-PFBS	83.8		40 - 135	06/11/25 06:46	06/12/25 19:52	1
13C3-PFHxS	82.3		40 - 130	06/11/25 06:46	06/12/25 19:52	1
13C8-PFOS	85.6		40 - 130	06/11/25 06:46	06/12/25 19:52	1
13C8-PFOSA	72.2		40 - 130	06/11/25 06:46	06/12/25 19:52	1
d3-NMeFOSAA	84.2		40 - 170	06/11/25 06:46	06/12/25 19:52	1
d5-NEtFOSAA	68.9		25 - 135	06/11/25 06:46	06/12/25 19:52	1
13C2-4:2 FTS	92.1		40 - 200	06/11/25 06:46	06/12/25 19:52	1
13C2-6:2 FTS	85.9		40 - 200	06/11/25 06:46	06/12/25 19:52	1
13C2-8:2 FTS	77.5		40 - 300	06/11/25 06:46	06/12/25 19:52	1
13C3-HFPO-DA	70.9		40 - 130	06/11/25 06:46	06/12/25 19:52	1
D7-NMeFOSE	81.3		10 - 130	06/11/25 06:46	06/12/25 19:52	1
D9-NEtFOSE	79.2		10 - 130	06/11/25 06:46	06/12/25 19:52	1
d5-NEtPFOSA	65.2		10 - 130	06/11/25 06:46	06/12/25 19:52	1
d3-NMePFOSA	70.5		10 - 130	06/11/25 06:46	06/12/25 19:52	1
13C2 PFDoA	93.6		10 - 130	06/11/25 06:46	06/12/25 19:52	1

Method: TAL SOP Total PFCA-Dif - Total PFCA (Treatment Difference)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	26				ng/L			07/03/25 10:24	1
Perfluorobutanoic acid (PFBA)	0.00				ng/L			07/03/25 10:24	1
Perfluoroheptanoic acid (PFHpA)	16				ng/L			07/03/25 10:24	1
Perfluorohexanoic acid (PFHxA)	8.6				ng/L			07/03/25 10:24	1
Perfluorononanoic acid (PFNA)	0.00				ng/L			07/03/25 10:24	1
Perfluorooctanoic acid (PFOA)	14				ng/L			07/03/25 10:24	1
Perfluoropentanoic acid (PFPA)	5.7				ng/L			07/03/25 10:24	1

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1950-49th-08

Lab Sample ID: 410-226305-3

Date Collected: 06/04/25 12:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	22	J	500	0.20	ng/L			06/12/25 19:52	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	48	J	500	0.20	ng/L			06/20/25 16:35	1

Client Sample ID: 1881-49th-09

Lab Sample ID: 410-226305-4

Date Collected: 06/04/25 12:10

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	22		20	5.4	ng/L		06/18/25 10:41	06/20/25 16:48	1
Perfluoropentanoic acid (PFPA)	9.8	J	9.9	3.0	ng/L		06/18/25 10:41	06/20/25 16:48	1
Perfluorohexanoic acid (PFHxA)	12		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 16:48	1
Perfluoroheptanoic acid (PFHpA)	15		9.9	4.0	ng/L		06/18/25 10:41	06/20/25 16:48	1
Perfluorooctanoic acid (PFOA)	16		9.9	4.4	ng/L		06/18/25 10:41	06/20/25 16:48	1
Perfluorononanoic acid (PFNA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 16:48	1
Perfluorodecanoic acid (PFDA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 16:48	1
Perfluoroundecanoic acid (PFUnA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 16:48	1
Perfluorododecanoic acid (PFDoA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 16:48	1
Perfluorotridecanoic acid (PFTrDA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 16:48	1
Perfluorotetradecanoic acid (PFTeDA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 16:48	1
Perfluorobutanesulfonic acid (PFBS)	4.7	J	9.9	2.5	ng/L		06/18/25 10:41	06/20/25 16:48	1
Perfluoropentanesulfonic acid (PFPeS)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 16:48	1
Perfluorohexanesulfonic acid (PFHxS)	13		9.9	4.0	ng/L		06/18/25 10:41	06/20/25 16:48	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 16:48	1
Perfluorooctanesulfonic acid (PFOS)	37		9.9	6.4	ng/L		06/18/25 10:41	06/20/25 16:48	1
Perfluorononanesulfonic acid (PFNS)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 16:48	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		9.9	3.0	ng/L		06/18/25 10:41	06/20/25 16:48	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 16:48	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 16:48	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 16:48	1
Perfluorooctanesulfonamide (PFOSA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 16:48	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 16:48	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 16:48	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 16:48	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 16:48	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<12		49	12	ng/L		06/18/25 10:41	06/20/25 16:48	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1881-49th-09

Lab Sample ID: 410-226305-4

Date Collected: 06/04/25 12:10

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctane sulfonamidoethanol (NETFOSE)	<20		49	20	ng/L		06/18/25 10:41	06/20/25 16:48	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<6.9		9.9	6.9	ng/L		06/18/25 10:41	06/20/25 16:48	1
4,8-Dioxo-3H-perfluorononanoic acid (DONA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 16:48	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 16:48	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 16:48	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 16:48	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 16:48	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 16:48	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 16:48	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 16:48	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<14		49	14	ng/L		06/18/25 10:41	06/20/25 16:48	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<12		49	12	ng/L		06/18/25 10:41	06/20/25 16:48	1
Perfluorodecanesulfonic acid (PFDS)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 16:48	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	94.3		10 - 130	06/18/25 10:41	06/20/25 16:48	1
13C5-PFPeA	94.5		35 - 150	06/18/25 10:41	06/20/25 16:48	1
13C5-PFHxA	100		55 - 150	06/18/25 10:41	06/20/25 16:48	1
13C4-PFHpA	95.0		55 - 150	06/18/25 10:41	06/20/25 16:48	1
13C9-PFNA	92.7		55 - 140	06/18/25 10:41	06/20/25 16:48	1
13C6-PFDA	96.4		50 - 140	06/18/25 10:41	06/20/25 16:48	1
13C7-PFUnA	93.7		30 - 140	06/18/25 10:41	06/20/25 16:48	1
13C2 PFDoA	86.9		10 - 150	06/18/25 10:41	06/20/25 16:48	1
13C2-PFTeDA	74.5		10 - 130	06/18/25 10:41	06/20/25 16:48	1
13C3-PFBS	99.8		55 - 150	06/18/25 10:41	06/20/25 16:48	1
13C3-PFHxS	97.3		55 - 150	06/18/25 10:41	06/20/25 16:48	1
13C8-PFOS	98.0		45 - 140	06/18/25 10:41	06/20/25 16:48	1
13C8-PFOSA	0.346		0 - 10	06/18/25 10:41	06/20/25 16:48	1
d3-NMeFOSAA	112		45 - 200	06/18/25 10:41	06/20/25 16:48	1
d5-NEtFOSAA	126		10 - 200	06/18/25 10:41	06/20/25 16:48	1
13C2-4:2 FTS	100		60 - 200	06/18/25 10:41	06/20/25 16:48	1
13C2-6:2 FTS	115		60 - 200	06/18/25 10:41	06/20/25 16:48	1
13C2-8:2 FTS	98.5		50 - 200	06/18/25 10:41	06/20/25 16:48	1
13C3-HFPO-DA	89.4		25 - 160	06/18/25 10:41	06/20/25 16:48	1
D7-NMeFOSE	67.9		10 - 150	06/18/25 10:41	06/20/25 16:48	1
D9-NEtFOSE	71.2		10 - 150	06/18/25 10:41	06/20/25 16:48	1
d5-NEtPFOSA	83.7		10 - 130	06/18/25 10:41	06/20/25 16:48	1
d3-NMePFOSA	90.6		15 - 130	06/18/25 10:41	06/20/25 16:48	1
13C2 PFOA	94.1		40 - 130	06/18/25 10:41	06/20/25 16:48	1

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1881-49th-09

Lab Sample ID: 410-226305-4

Date Collected: 06/04/25 12:10

Matrix: Water

Date Received: 06/07/25 10:35

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	73		50 - 150	06/18/25 10:41	06/20/25 16:48	1
M3PFPeA	86		50 - 150	06/18/25 10:41	06/20/25 16:48	1

Method: EPA 1633_BLT - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	14		2.9	0.81	ng/L		07/01/25 14:27	07/02/25 11:27	1
Perfluoropentanoic acid (PFPeA)	3.9		1.5	0.44	ng/L		07/01/25 14:27	07/02/25 11:27	1
Perfluorohexanoic acid (PFHxA)	3.3		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Perfluoroheptanoic acid (PFHpA)	1.9		1.5	0.59	ng/L		07/01/25 14:27	07/02/25 11:27	1
Perfluorodecanoic acid (PFDA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Perfluoroundecanoic acid (PFUnA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Perfluorododecanoic acid (PFDoA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Perfluorotridecanoic acid (PFTriDA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Perfluorotetradecanoic acid (PFTeDA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Perfluorobutanesulfonic acid (PFBS)	3.7		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Perfluoropentanesulfonic acid (PFPeS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Perfluorononanesulfonic acid (PFNS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Perfluorodecanesulfonic acid (PFDS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Perfluorododecanesulfonic acid (PFDoS)	<0.44		1.5	0.44	ng/L		07/01/25 14:27	07/02/25 11:27	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.73		2.9	0.73	ng/L		07/01/25 14:27	07/02/25 11:27	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.73		2.9	0.73	ng/L		07/01/25 14:27	07/02/25 11:27	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.73		2.9	0.73	ng/L		07/01/25 14:27	07/02/25 11:27	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.0		1.5	1.0	ng/L		07/01/25 14:27	07/02/25 11:27	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.73		2.9	0.73	ng/L		07/01/25 14:27	07/02/25 11:27	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.1		7.3	2.1	ng/L		07/01/25 14:27	07/02/25 11:27	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<1.8		7.3	1.8	ng/L		07/01/25 14:27	07/02/25 11:27	1
Br-Perfluorooctanoic acid (Br-PFOA)	<0.66		1.5	0.66	ng/L		07/01/25 14:27	07/02/25 11:27	1
L-Perfluorooctanoic acid (L-PFOA)	0.91 J		1.5	0.66	ng/L		07/01/25 14:27	07/02/25 11:27	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1881-49th-09

Lab Sample ID: 410-226305-4

Date Collected: 06/04/25 12:10

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFOA	1.5		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Br-Perfluorononanoic acid (Br-PFNA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
L-Perfluorononanoic acid (L-PFNA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Total PFNA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	<0.59		1.5	0.59	ng/L		07/01/25 14:27	07/02/25 11:27	1
L-Perfluorohexanesulfonic acid (L-PFHxS)	1.2 J		1.5	0.59	ng/L		07/01/25 14:27	07/02/25 11:27	1
Total PFHxS	1.5		1.5	0.59	ng/L		07/01/25 14:27	07/02/25 11:27	1
Br-Perfluorooctanesulfonic acid (PFOS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
L-Perfluorooctanesulfonic acid (PFOS)	<0.96		1.5	0.96	ng/L		07/01/25 14:27	07/02/25 11:27	1
Total PFOS	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Br-N-methylperfluorooctanesulfonamidoacetic acid (Br-NMeFOSAA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
L-N-methylperfluorooctanesulfonamidoacetic acid (L-NMeFOSAA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Total NMeFOSAA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid (Br-NEtFOSAA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
L-N-ethylperfluorooctanesulfonamidoacetic acid (L-NEtFOSAA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Total NEtFOSAA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Br-N-ethylperfluorooctane sulfonamide (Br-NEtFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
L-N-ethylperfluorooctane sulfonamide (L-NEtFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Total NEtFOSA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Br-N-methylperfluorooctane sulfonamide (Br-NMeFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
L-N-methylperfluorooctane sulfonamide (L-NMeFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Total NMeFOSA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Br-Perfluorooctanesulfonamide (PFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
L-Perfluorooctanesulfonamide (L-PFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Total PFOSA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 11:27	1
Br-2-(N-ethylperfluoro-1-octanesulfonamido) ethanol (Br-NEtFOSE)	<1.8		7.3	1.8	ng/L		07/01/25 14:27	07/02/25 11:27	1
L-N-ethylperfluorooctane sulfonamidoethanol (L-NEtFOSE)	<2.9		7.3	2.9	ng/L		07/01/25 14:27	07/02/25 11:27	1
Total NEtFOSE	<1.8		7.3	1.8	ng/L		07/01/25 14:27	07/02/25 11:27	1
Br-2-(N-methylperfluoro-1-octanesulfonamido) ethanol (Br-NMeFOSE)	<1.8		7.3	1.8	ng/L		07/01/25 14:27	07/02/25 11:27	1
L-N-methylperfluorooctane sulfonamidoethanol (L-NMeFOSE)	<1.8		7.3	1.8	ng/L		07/01/25 14:27	07/02/25 11:27	1
Total NMeFOSE	<1.8		7.3	1.8	ng/L		07/01/25 14:27	07/02/25 11:27	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	106		5 - 130				07/01/25 14:27	07/02/25 11:27	1
13C5 PFPeA	113		40 - 130				07/01/25 14:27	07/02/25 11:27	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1881-49th-09

Lab Sample ID: 410-226305-4

Date Collected: 06/04/25 12:10

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFHxA	113		40 - 130	07/01/25 14:27	07/02/25 11:27	1
13C4 PFHpA	107		40 - 130	07/01/25 14:27	07/02/25 11:27	1
13C8 PFOA	107		40 - 130	07/01/25 14:27	07/02/25 11:27	1
13C9 PFNA	109		40 - 130	07/01/25 14:27	07/02/25 11:27	1
13C6 PFDA	105		40 - 130	07/01/25 14:27	07/02/25 11:27	1
13C7 PFUnA	98		30 - 130	07/01/25 14:27	07/02/25 11:27	1
13C2 PFDoA	91		10 - 130	07/01/25 14:27	07/02/25 11:27	1
13C2 PFTeDA	79		10 - 130	07/01/25 14:27	07/02/25 11:27	1
13C3 PFBS	103		40 - 135	07/01/25 14:27	07/02/25 11:27	1
13C3 PFHxS	106		40 - 130	07/01/25 14:27	07/02/25 11:27	1
13C8 PFOS	95		40 - 130	07/01/25 14:27	07/02/25 11:27	1
13C8 FOSA	86		40 - 130	07/01/25 14:27	07/02/25 11:27	1
d3-NMeFOSAA	86		40 - 170	07/01/25 14:27	07/02/25 11:27	1
d5-NEtFOSAA	94		25 - 135	07/01/25 14:27	07/02/25 11:27	1
13C2 4:2 FTS	102		40 - 200	07/01/25 14:27	07/02/25 11:27	1
13C2 6:2 FTS	112		40 - 200	07/01/25 14:27	07/02/25 11:27	1
13C2 8:2 FTS	98		40 - 300	07/01/25 14:27	07/02/25 11:27	1
13C3 HFPO-DA	104		40 - 130	07/01/25 14:27	07/02/25 11:27	1
d7-N-MeFOSE-M	66		10 - 130	07/01/25 14:27	07/02/25 11:27	1
d9-N-EtFOSE-M	60		10 - 130	07/01/25 14:27	07/02/25 11:27	1
d5-NEtPFOSA	52		10 - 130	07/01/25 14:27	07/02/25 11:27	1
d3-NMePFOSA	55		10 - 130	07/01/25 14:27	07/02/25 11:27	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	16		2.9	0.80	ng/L		06/11/25 06:46	06/12/25 20:06	1
Perfluoropentanoic acid (PFPA)	4.7		1.5	0.44	ng/L		06/11/25 06:46	06/12/25 20:06	1
Perfluorohexanoic acid (PFHxA)	4.2		1.5	0.36	ng/L		06/11/25 06:46	06/12/25 20:06	1
Perfluoroheptanoic acid (PFHpA)	2.1		1.5	0.58	ng/L		06/11/25 06:46	06/12/25 20:06	1
Perfluorooctanoic acid (PFOA)	1.6		1.5	0.65	ng/L		06/11/25 06:46	06/12/25 20:06	1
Perfluorononanoic acid (PFNA)	<0.36		1.5	0.36	ng/L		06/11/25 06:46	06/12/25 20:06	1
Perfluorodecanoic acid (PFDA)	<0.36		1.5	0.36	ng/L		06/11/25 06:46	06/12/25 20:06	1
Perfluoroundecanoic acid (PFUnA)	<0.36		1.5	0.36	ng/L		06/11/25 06:46	06/12/25 20:06	1
Perfluorododecanoic acid (PFDoA)	<0.36		1.5	0.36	ng/L		06/11/25 06:46	06/12/25 20:06	1
Perfluorotridecanoic acid (PFTeDA)	<0.36		1.5	0.36	ng/L		06/11/25 06:46	06/12/25 20:06	1
Perfluorotetradecanoic acid (PFTeDA)	<0.36		1.5	0.36	ng/L		06/11/25 06:46	06/12/25 20:06	1
Perfluorobutanesulfonic acid (PFBS)	4.3		1.5	0.36	ng/L		06/11/25 06:46	06/12/25 20:06	1
Perfluoropentanesulfonic acid (PFPeS)	0.38 J		1.5	0.36	ng/L		06/11/25 06:46	06/12/25 20:06	1
Perfluorohexanesulfonic acid (PFHxS)	1.6		1.5	0.58	ng/L		06/11/25 06:46	06/12/25 20:06	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		1.5	0.36	ng/L		06/11/25 06:46	06/12/25 20:06	1
Perfluorooctanesulfonic acid (PFOS)	<0.95		1.5	0.95	ng/L		06/11/25 06:46	06/12/25 20:06	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.5	0.36	ng/L		06/11/25 06:46	06/12/25 20:06	1
Perfluorodecanesulfonic acid (PFDS)	<0.36		1.5	0.36	ng/L		06/11/25 06:46	06/12/25 20:06	1
Perfluorododecanesulfonic acid (PFDoS)	<0.44		1.5	0.44	ng/L		06/11/25 06:46	06/12/25 20:06	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.73		2.9	0.73	ng/L		06/11/25 06:46	06/12/25 20:06	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1881-49th-09

Lab Sample ID: 410-226305-4

Date Collected: 06/04/25 12:10

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.73		2.9	0.73	ng/L		06/11/25 06:46	06/12/25 20:06	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.73		2.9	0.73	ng/L		06/11/25 06:46	06/12/25 20:06	1
Perfluorooctanesulfonamide (PFOSA)	<0.36		1.5	0.36	ng/L		06/11/25 06:46	06/12/25 20:06	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.36		1.5	0.36	ng/L		06/11/25 06:46	06/12/25 20:06	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<0.36		1.5	0.36	ng/L		06/11/25 06:46	06/12/25 20:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.36		1.5	0.36	ng/L		06/11/25 06:46	06/12/25 20:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.36		1.5	0.36	ng/L		06/11/25 06:46	06/12/25 20:06	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<1.8		7.3	1.8	ng/L		06/11/25 06:46	06/12/25 20:06	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<2.9		7.3	2.9	ng/L		06/11/25 06:46	06/12/25 20:06	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.0		1.5	1.0	ng/L		06/11/25 06:46	06/12/25 20:06	1
4,8-Dioxo-3H-perfluorononanoic acid (DONA)	<0.36		1.5	0.36	ng/L		06/11/25 06:46	06/12/25 20:06	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.36		1.5	0.36	ng/L		06/11/25 06:46	06/12/25 20:06	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.36		1.5	0.36	ng/L		06/11/25 06:46	06/12/25 20:06	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.36		1.5	0.36	ng/L		06/11/25 06:46	06/12/25 20:06	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.36		1.5	0.36	ng/L		06/11/25 06:46	06/12/25 20:06	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.36		1.5	0.36	ng/L		06/11/25 06:46	06/12/25 20:06	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.36		1.5	0.36	ng/L		06/11/25 06:46	06/12/25 20:06	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.73		2.9	0.73	ng/L		06/11/25 06:46	06/12/25 20:06	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.0		7.3	2.0	ng/L		06/11/25 06:46	06/12/25 20:06	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<1.8		7.3	1.8	ng/L		06/11/25 06:46	06/12/25 20:06	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	87.1		5 - 130	06/11/25 06:46	06/12/25 20:06	1
13C5-PFPeA	82.9		40 - 130	06/11/25 06:46	06/12/25 20:06	1
13C5-PFHxA	82.5		40 - 130	06/11/25 06:46	06/12/25 20:06	1
13C4-PFHpA	85.3		40 - 130	06/11/25 06:46	06/12/25 20:06	1
13C8-PFOA	85.7		40 - 130	06/11/25 06:46	06/12/25 20:06	1
13C9-PFNA	87.1		40 - 130	06/11/25 06:46	06/12/25 20:06	1
13C6-PFDA	87.1		40 - 130	06/11/25 06:46	06/12/25 20:06	1
13C7-PFUnA	98.5		30 - 130	06/11/25 06:46	06/12/25 20:06	1
13C2-PFTeDA	89.4		10 - 130	06/11/25 06:46	06/12/25 20:06	1
13C3-PFBS	84.8		40 - 135	06/11/25 06:46	06/12/25 20:06	1
13C3-PFHxS	85.6		40 - 130	06/11/25 06:46	06/12/25 20:06	1
13C8-PFOS	82.7		40 - 130	06/11/25 06:46	06/12/25 20:06	1
13C8-PFOSA	72.5		40 - 130	06/11/25 06:46	06/12/25 20:06	1
d3-NMeFOSAA	79.1		40 - 170	06/11/25 06:46	06/12/25 20:06	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1881-49th-09

Lab Sample ID: 410-226305-4

Date Collected: 06/04/25 12:10

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	65.0		25 - 135	06/11/25 06:46	06/12/25 20:06	1
13C2-4:2 FTS	95.6		40 - 200	06/11/25 06:46	06/12/25 20:06	1
13C2-6:2 FTS	88.4		40 - 200	06/11/25 06:46	06/12/25 20:06	1
13C2-8:2 FTS	77.8		40 - 300	06/11/25 06:46	06/12/25 20:06	1
13C3-HFPO-DA	77.7		40 - 130	06/11/25 06:46	06/12/25 20:06	1
D7-NMeFOSE	77.0		10 - 130	06/11/25 06:46	06/12/25 20:06	1
D9-NEtFOSE	73.2		10 - 130	06/11/25 06:46	06/12/25 20:06	1
d5-NEtPFOSA	67.2		10 - 130	06/11/25 06:46	06/12/25 20:06	1
d3-NMePFOSA	71.9		10 - 130	06/11/25 06:46	06/12/25 20:06	1
13C2 PFDoA	88.7		10 - 130	06/11/25 06:46	06/12/25 20:06	1

Method: TAL SOP Total PFCA-Dif - Total PFCA (Treatment Difference)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	46				ng/L			07/03/25 10:24	1
Perfluorobutanoic acid (PFBA)	6.1				ng/L			07/03/25 10:24	1
Perfluoroheptanoic acid (PFHpA)	13				ng/L			07/03/25 10:24	1
Perfluorohexanoic acid (PFHxA)	8.3				ng/L			07/03/25 10:24	1
Perfluorononanoic acid (PFNA)	0.00				ng/L			07/03/25 10:24	1
Perfluorooctanoic acid (PFOA)	15				ng/L			07/03/25 10:24	1
Perfluoropentanoic acid (PFPA)	5.1				ng/L			07/03/25 10:24	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	29	J	500	0.20	ng/L			06/12/25 20:06	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	75	J	500	0.20	ng/L			06/20/25 16:48	1

Client Sample ID: DUP-02

Lab Sample ID: 410-226305-5

Date Collected: 06/04/25 00:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	39		20	5.5	ng/L		06/18/25 10:41	06/20/25 17:02	1
Perfluoropentanoic acid (PFPA)	37		10	3.0	ng/L		06/18/25 10:41	06/20/25 17:02	1
Perfluorohexanoic acid (PFHxA)	35		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:02	1
Perfluoroheptanoic acid (PFHpA)	28		10	4.0	ng/L		06/18/25 10:41	06/20/25 17:02	1
Perfluorooctanoic acid (PFOA)	73		10	4.5	ng/L		06/18/25 10:41	06/20/25 17:02	1
Perfluorononanoic acid (PFNA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:02	1
Perfluorodecanoic acid (PFDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:02	1
Perfluoroundecanoic acid (PFUnA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:02	1
Perfluorododecanoic acid (PFDoA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:02	1
Perfluorotridecanoic acid (PFTriDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:02	1
Perfluorotetradecanoic acid (PFTeDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:02	1
Perfluorobutanesulfonic acid (PFBS)	22		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:02	1
Perfluoropentanesulfonic acid (PFPeS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:02	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: DUP-02

Lab Sample ID: 410-226305-5

Date Collected: 06/04/25 00:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	22		10	4.0	ng/L		06/18/25 10:41	06/20/25 17:02	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:02	1
Perfluorooctanesulfonic acid (PFOS)	52		10	6.5	ng/L		06/18/25 10:41	06/20/25 17:02	1
Perfluorononanesulfonic acid (PFNS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:02	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		10	3.0	ng/L		06/18/25 10:41	06/20/25 17:02	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 17:02	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 17:02	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 17:02	1
Perfluorooctanesulfonamide (PFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:02	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:02	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:02	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:02	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:02	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<13		50	13	ng/L		06/18/25 10:41	06/20/25 17:02	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<20		50	20	ng/L		06/18/25 10:41	06/20/25 17:02	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<7.0		10	7.0	ng/L		06/18/25 10:41	06/20/25 17:02	1
4,8-Dioxo-3H-perfluorononanoic acid (DONA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:02	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:02	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:02	1
Nonfluoro-3,6-dioxahexanoic acid (NFDHA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:02	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:02	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:02	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:02	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 17:02	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<14		50	14	ng/L		06/18/25 10:41	06/20/25 17:02	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<13		50	13	ng/L		06/18/25 10:41	06/20/25 17:02	1
Perfluorodecanesulfonic acid (PFDS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:02	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	93.9		10 - 130				06/18/25 10:41	06/20/25 17:02	1
13C5-PFPeA	94.5		35 - 150				06/18/25 10:41	06/20/25 17:02	1
13C5-PFHxA	97.3		55 - 150				06/18/25 10:41	06/20/25 17:02	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: DUP-02

Lab Sample ID: 410-226305-5

Date Collected: 06/04/25 00:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFHpA	97.4		55 - 150	06/18/25 10:41	06/20/25 17:02	1
13C9-PFNA	95.8		55 - 140	06/18/25 10:41	06/20/25 17:02	1
13C6-PFDA	100		50 - 140	06/18/25 10:41	06/20/25 17:02	1
13C7-PFUnA	100		30 - 140	06/18/25 10:41	06/20/25 17:02	1
13C2 PFDoA	73.6		10 - 150	06/18/25 10:41	06/20/25 17:02	1
13C2-PFTeDA	86.2		10 - 130	06/18/25 10:41	06/20/25 17:02	1
13C3-PFBS	101		55 - 150	06/18/25 10:41	06/20/25 17:02	1
13C3-PFHxS	99.0		55 - 150	06/18/25 10:41	06/20/25 17:02	1
13C8-PFOS	106		45 - 140	06/18/25 10:41	06/20/25 17:02	1
13C8-PFOSA	0.330		0 - 10	06/18/25 10:41	06/20/25 17:02	1
d3-NMeFOSAA	121		45 - 200	06/18/25 10:41	06/20/25 17:02	1
d5-NEtFOSAA	132		10 - 200	06/18/25 10:41	06/20/25 17:02	1
13C2-4:2 FTS	100		60 - 200	06/18/25 10:41	06/20/25 17:02	1
13C2-6:2 FTS	117		60 - 200	06/18/25 10:41	06/20/25 17:02	1
13C2-8:2 FTS	105		50 - 200	06/18/25 10:41	06/20/25 17:02	1
13C3-HFPO-DA	90.8		25 - 160	06/18/25 10:41	06/20/25 17:02	1
D7-NMeFOSE	74.1		10 - 150	06/18/25 10:41	06/20/25 17:02	1
D9-NEtFOSE	79.4		10 - 150	06/18/25 10:41	06/20/25 17:02	1
d5-NEtPFOSA	94.5		10 - 130	06/18/25 10:41	06/20/25 17:02	1
d3-NMePFOSA	100		15 - 130	06/18/25 10:41	06/20/25 17:02	1
13C2 PFOA	99.0		40 - 130	06/18/25 10:41	06/20/25 17:02	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	82		50 - 150	06/18/25 10:41	06/20/25 17:02	1
M3PFPeA	86		50 - 150	06/18/25 10:41	06/20/25 17:02	1

Method: EPA 1633_BLT - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	30		3.1	0.84	ng/L		07/01/25 14:27	07/02/25 11:40	1
Perfluoropentanoic acid (PFPeA)	29		1.5	0.46	ng/L		07/01/25 14:27	07/02/25 11:40	1
Perfluorohexanoic acid (PFHxA)	26		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Perfluoroheptanoic acid (PFHpA)	18		1.5	0.61	ng/L		07/01/25 14:27	07/02/25 11:40	1
Perfluorodecanoic acid (PFDA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Perfluoroundecanoic acid (PFUnA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Perfluorododecanoic acid (PFDoA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Perfluorotridecanoic acid (PFTrDA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Perfluorotetradecanoic acid (PFTeDA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Perfluorobutanesulfonic acid (PFBS)	19		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Perfluoropentanesulfonic acid (PFPeS)	1.1 J		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Perfluoroheptanesulfonic acid (PFHpS)	0.84 J		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Perfluorononanesulfonic acid (PFNS)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Perfluorodecanesulfonic acid (PFDS)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Perfluorododecanesulfonic acid (PFDoS)	<0.46		1.5	0.46	ng/L		07/01/25 14:27	07/02/25 11:40	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.77		3.1	0.77	ng/L		07/01/25 14:27	07/02/25 11:40	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.77		3.1	0.77	ng/L		07/01/25 14:27	07/02/25 11:40	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: DUP-02

Lab Sample ID: 410-226305-5

Date Collected: 06/04/25 00:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.77		3.1	0.77	ng/L		07/01/25 14:27	07/02/25 11:40	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.1		1.5	1.1	ng/L		07/01/25 14:27	07/02/25 11:40	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.77		3.1	0.77	ng/L		07/01/25 14:27	07/02/25 11:40	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.1		7.7	2.1	ng/L		07/01/25 14:27	07/02/25 11:40	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<1.9		7.7	1.9	ng/L		07/01/25 14:27	07/02/25 11:40	1
Br-Perfluorooctanoic acid (Br-PFOA)	3.7		1.5	0.69	ng/L		07/01/25 14:27	07/02/25 11:40	1
L-Perfluorooctanoic acid (L-PFOA)	45		1.5	0.69	ng/L		07/01/25 14:27	07/02/25 11:40	1
Total PFOA	49		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Br-Perfluorononanoic acid (Br-PFNA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
L-Perfluorononanoic acid (L-PFNA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Total PFNA	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	1.4 J		1.5	0.61	ng/L		07/01/25 14:27	07/02/25 11:40	1
L-Perfluorohexanesulfonic acid (L-PFHxS)	11		1.5	0.61	ng/L		07/01/25 14:27	07/02/25 11:40	1
Total PFHxS	12		1.5	0.61	ng/L		07/01/25 14:27	07/02/25 11:40	1
Br-Perfluorooctanesulfonic acid (PFOS)	4.2		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
L-Perfluorooctanesulfonic acid (PFOS)	2.4		1.5	1.0	ng/L		07/01/25 14:27	07/02/25 11:40	1
Total PFOS	6.6		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Br-N-methylperfluorooctanesulfonamide acetic acid (Br-NMeFOSAA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
L-N-methylperfluorooctanesulfonamide acetic acid (L-NMeFOSAA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Total NMeFOSAA	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Br-N-ethylperfluorooctanesulfonamide acetic acid (Br-NEtFOSAA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
L-N-ethylperfluorooctanesulfonamide acetic acid (L-NEtFOSAA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Total NEtFOSAA	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Br-N-ethylperfluorooctane sulfonamide (Br-NEtFOSA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: DUP-02

Lab Sample ID: 410-226305-5

Date Collected: 06/04/25 00:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
L-N-ethylperfluorooctane sulfonamide (L-NEtFOSA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Total NEtFOSA	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Br-N-methylperfluorooctane sulfonamide (Br-NMeFOSA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
L-N-methylperfluorooctane sulfonamide (L-NMeFOSA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Total NMeFOSA	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Br-Perfluorooctanesulfonamide (PFOSA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
L-Perfluorooctanesulfonamide (L-PFOSA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Total PFOSA	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 11:40	1
Br-2-(N-ethylperfluoro-1-octanesulfonamido) ethanol (Br-NEtFOSE)	<1.9		7.7	1.9	ng/L		07/01/25 14:27	07/02/25 11:40	1
L-N-ethylperfluorooctane sulfonamidoethanol (L-NEtFOSE)	<3.1		7.7	3.1	ng/L		07/01/25 14:27	07/02/25 11:40	1
Total NEtFOSE	<1.9		7.7	1.9	ng/L		07/01/25 14:27	07/02/25 11:40	1
Br-2-(N-methylperfluoro-1-octanesulfonamido) ethanol (Br-NMeFOSE)	<1.9		7.7	1.9	ng/L		07/01/25 14:27	07/02/25 11:40	1
L-N-methylperfluorooctane sulfonamidoethanol (L-NMeFOSE)	<1.9		7.7	1.9	ng/L		07/01/25 14:27	07/02/25 11:40	1
Total NMeFOSE	<1.9		7.7	1.9	ng/L		07/01/25 14:27	07/02/25 11:40	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	105		5 - 130				07/01/25 14:27	07/02/25 11:40	1
13C5 PFPeA	106		40 - 130				07/01/25 14:27	07/02/25 11:40	1
13C5 PFHxA	102		40 - 130				07/01/25 14:27	07/02/25 11:40	1
13C4 PFHpA	101		40 - 130				07/01/25 14:27	07/02/25 11:40	1
13C8 PFOA	103		40 - 130				07/01/25 14:27	07/02/25 11:40	1
13C9 PFNA	95		40 - 130				07/01/25 14:27	07/02/25 11:40	1
13C6 PFDA	101		40 - 130				07/01/25 14:27	07/02/25 11:40	1
13C7 PFUnA	92		30 - 130				07/01/25 14:27	07/02/25 11:40	1
13C2 PFDoA	86		10 - 130				07/01/25 14:27	07/02/25 11:40	1
13C2 PFTeDA	79		10 - 130				07/01/25 14:27	07/02/25 11:40	1
13C3 PFBS	102		40 - 135				07/01/25 14:27	07/02/25 11:40	1
13C3 PFHxS	106		40 - 130				07/01/25 14:27	07/02/25 11:40	1
13C8 PFOS	104		40 - 130				07/01/25 14:27	07/02/25 11:40	1
13C8 FOSA	91		40 - 130				07/01/25 14:27	07/02/25 11:40	1
d3-NMeFOSAA	100		40 - 170				07/01/25 14:27	07/02/25 11:40	1
d5-NEtFOSAA	97		25 - 135				07/01/25 14:27	07/02/25 11:40	1
13C2 4:2 FTS	98		40 - 200				07/01/25 14:27	07/02/25 11:40	1
13C2 6:2 FTS	111		40 - 200				07/01/25 14:27	07/02/25 11:40	1
13C2 8:2 FTS	95		40 - 300				07/01/25 14:27	07/02/25 11:40	1
13C3 HFPO-DA	102		40 - 130				07/01/25 14:27	07/02/25 11:40	1
d7-N-MeFOSE-M	67		10 - 130				07/01/25 14:27	07/02/25 11:40	1
d9-N-EtFOSE-M	64		10 - 130				07/01/25 14:27	07/02/25 11:40	1
d5-NEtPFOSA	60		10 - 130				07/01/25 14:27	07/02/25 11:40	1
d3-NMePFOSA	58		10 - 130				07/01/25 14:27	07/02/25 11:40	1

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: DUP-02

Lab Sample ID: 410-226305-5

Date Collected: 06/04/25 00:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	32		3.0	0.83	ng/L		06/11/25 06:46	06/12/25 20:19	1
Perfluoropentanoic acid (PFPA)	32		1.5	0.45	ng/L		06/11/25 06:46	06/12/25 20:19	1
Perfluorohexanoic acid (PFHxA)	28		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:19	1
Perfluoroheptanoic acid (PFHpA)	20		1.5	0.60	ng/L		06/11/25 06:46	06/12/25 20:19	1
Perfluorooctanoic acid (PFOA)	62		1.5	0.68	ng/L		06/11/25 06:46	06/12/25 20:19	1
Perfluorononanoic acid (PFNA)	0.67	J	1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:19	1
Perfluorodecanoic acid (PFDA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:19	1
Perfluoroundecanoic acid (PFUnA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:19	1
Perfluorododecanoic acid (PFDoA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:19	1
Perfluorotridecanoic acid (PFTrDA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:19	1
Perfluorotetradecanoic acid (PFTeDA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:19	1
Perfluorobutanesulfonic acid (PFBS)	22		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:19	1
Perfluoropentanesulfonic acid (PFPeS)	1.2	J	1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:19	1
Perfluorohexanesulfonic acid (PFHxS)	16		1.5	0.60	ng/L		06/11/25 06:46	06/12/25 20:19	1
Perfluoroheptanesulfonic acid (PFHpS)	0.97	J	1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:19	1
Perfluorooctanesulfonic acid (PFOS)	18		1.5	0.98	ng/L		06/11/25 06:46	06/12/25 20:19	1
Perfluorononanesulfonic acid (PFNS)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:19	1
Perfluorodecanesulfonic acid (PFDS)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:19	1
Perfluorododecanesulfonic acid (PFDoS)	<0.45		1.5	0.45	ng/L		06/11/25 06:46	06/12/25 20:19	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.75		3.0	0.75	ng/L		06/11/25 06:46	06/12/25 20:19	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.75		3.0	0.75	ng/L		06/11/25 06:46	06/12/25 20:19	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.75		3.0	0.75	ng/L		06/11/25 06:46	06/12/25 20:19	1
Perfluorooctanesulfonamide (PFOSA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:19	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:19	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:19	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:19	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:19	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<1.9		7.5	1.9	ng/L		06/11/25 06:46	06/12/25 20:19	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<3.0		7.5	3.0	ng/L		06/11/25 06:46	06/12/25 20:19	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.1		1.5	1.1	ng/L		06/11/25 06:46	06/12/25 20:19	1
4,8-Dioxo-3H-perfluorononanoic acid (DONA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:19	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:19	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:19	1
Nonfluoro-3,6-dioxahexanoic acid (NFDHA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:19	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: DUP-02

Lab Sample ID: 410-226305-5

Date Collected: 06/04/25 00:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:19	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:19	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:19	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.75		3.0	0.75	ng/L		06/11/25 06:46	06/12/25 20:19	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.1		7.5	2.1	ng/L		06/11/25 06:46	06/12/25 20:19	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<1.9		7.5	1.9	ng/L		06/11/25 06:46	06/12/25 20:19	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	94.6		5 - 130	06/11/25 06:46	06/12/25 20:19	1
13C5-PFPeA	90.8		40 - 130	06/11/25 06:46	06/12/25 20:19	1
13C5-PFHxA	93.0		40 - 130	06/11/25 06:46	06/12/25 20:19	1
13C4-PFHpA	88.9		40 - 130	06/11/25 06:46	06/12/25 20:19	1
13C8-PFOA	89.2		40 - 130	06/11/25 06:46	06/12/25 20:19	1
13C9-PFNA	87.2		40 - 130	06/11/25 06:46	06/12/25 20:19	1
13C6-PFDA	91.3		40 - 130	06/11/25 06:46	06/12/25 20:19	1
13C7-PFUnA	102		30 - 130	06/11/25 06:46	06/12/25 20:19	1
13C2-PFTeDA	88.7		10 - 130	06/11/25 06:46	06/12/25 20:19	1
13C3-PFBS	93.0		40 - 135	06/11/25 06:46	06/12/25 20:19	1
13C3-PFHxS	87.4		40 - 130	06/11/25 06:46	06/12/25 20:19	1
13C8-PFOS	91.4		40 - 130	06/11/25 06:46	06/12/25 20:19	1
13C8-PFOSA	77.6		40 - 130	06/11/25 06:46	06/12/25 20:19	1
d3-NMeFOSAA	86.2		40 - 170	06/11/25 06:46	06/12/25 20:19	1
d5-NEtFOSAA	72.3		25 - 135	06/11/25 06:46	06/12/25 20:19	1
13C2-4:2 FTS	97.7		40 - 200	06/11/25 06:46	06/12/25 20:19	1
13C2-6:2 FTS	90.7		40 - 200	06/11/25 06:46	06/12/25 20:19	1
13C2-8:2 FTS	77.4		40 - 300	06/11/25 06:46	06/12/25 20:19	1
13C3-HFPO-DA	81.3		40 - 130	06/11/25 06:46	06/12/25 20:19	1
D7-NMeFOSE	74.3		10 - 130	06/11/25 06:46	06/12/25 20:19	1
D9-NEtFOSE	72.2		10 - 130	06/11/25 06:46	06/12/25 20:19	1
d5-NEtPFOSA	69.9		10 - 130	06/11/25 06:46	06/12/25 20:19	1
d3-NMePFOSA	72.4		10 - 130	06/11/25 06:46	06/12/25 20:19	1
13C2 PFDaA	96.9		10 - 130	06/11/25 06:46	06/12/25 20:19	1

Method: TAL SOP Total PFCA-Dif - Total PFCA (Treatment Difference)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	37				ng/L			07/03/25 10:24	1
Perfluorobutanoic acid (PFBA)	6.6				ng/L			07/03/25 10:24	1
Perfluoroheptanoic acid (PFHpA)	7.9				ng/L			07/03/25 10:24	1
Perfluorohexanoic acid (PFHxA)	7.2				ng/L			07/03/25 10:24	1
Perfluorononanoic acid (PFNA)	0.00				ng/L			07/03/25 10:24	1
Perfluorooctanoic acid (PFOA)	11				ng/L			07/03/25 10:24	1
Perfluoropentanoic acid (PFPA)	4.9				ng/L			07/03/25 10:24	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	170	J	500	0.20	ng/L			06/12/25 20:19	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: DUP-02

Lab Sample ID: 410-226305-5

Date Collected: 06/04/25 00:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	210	J	500	0.20	ng/L			06/20/25 17:02	1

Client Sample ID: 1710-54th-01

Lab Sample ID: 410-226305-6

Date Collected: 06/04/25 10:20

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<5.5		20	5.5	ng/L		06/18/25 10:41	06/20/25 17:15	1
Perfluoropentanoic acid (PFPA)	19		10	3.0	ng/L		06/18/25 10:41	06/20/25 17:15	1
Perfluorohexanoic acid (PFHxA)	24		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:15	1
Perfluoroheptanoic acid (PFHpA)	12		10	4.0	ng/L		06/18/25 10:41	06/20/25 17:15	1
Perfluorooctanoic acid (PFOA)	11		10	4.5	ng/L		06/18/25 10:41	06/20/25 17:15	1
Perfluorononanoic acid (PFNA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:15	1
Perfluorodecanoic acid (PFDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:15	1
Perfluoroundecanoic acid (PFUnA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:15	1
Perfluorododecanoic acid (PFDoA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:15	1
Perfluorotridecanoic acid (PFTriDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:15	1
Perfluorotetradecanoic acid (PFTeDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:15	1
Perfluorobutanesulfonic acid (PFBS)	15		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:15	1
Perfluoropentanesulfonic acid (PFPeS)	12		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:15	1
Perfluorohexanesulfonic acid (PFHxS)	31		10	4.0	ng/L		06/18/25 10:41	06/20/25 17:15	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:15	1
Perfluorooctanesulfonic acid (PFOS)	45		10	6.5	ng/L		06/18/25 10:41	06/20/25 17:15	1
Perfluorononanesulfonic acid (PFNS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:15	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		10	3.0	ng/L		06/18/25 10:41	06/20/25 17:15	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 17:15	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 17:15	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 17:15	1
Perfluorooctanesulfonamide (PFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:15	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:15	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:15	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:15	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:15	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<13		50	13	ng/L		06/18/25 10:41	06/20/25 17:15	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<20		50	20	ng/L		06/18/25 10:41	06/20/25 17:15	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<7.0		10	7.0	ng/L		06/18/25 10:41	06/20/25 17:15	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1710-54th-01

Lab Sample ID: 410-226305-6

Date Collected: 06/04/25 10:20

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:15	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:15	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:15	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:15	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:15	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:15	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:15	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 17:15	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<14		50	14	ng/L		06/18/25 10:41	06/20/25 17:15	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<13		50	13	ng/L		06/18/25 10:41	06/20/25 17:15	1
Perfluorodecanesulfonic acid (PFDS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:15	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	69.0		10 - 130	06/18/25 10:41	06/20/25 17:15	1
13C5-PFPeA	69.6		35 - 150	06/18/25 10:41	06/20/25 17:15	1
13C5-PFHxA	76.4		55 - 150	06/18/25 10:41	06/20/25 17:15	1
13C4-PFHpA	72.8		55 - 150	06/18/25 10:41	06/20/25 17:15	1
13C9-PFNA	67.4		55 - 140	06/18/25 10:41	06/20/25 17:15	1
13C6-PFDA	73.8		50 - 140	06/18/25 10:41	06/20/25 17:15	1
13C7-PFUnA	66.5		30 - 140	06/18/25 10:41	06/20/25 17:15	1
13C2 PFDoA	62.6		10 - 150	06/18/25 10:41	06/20/25 17:15	1
13C2-PFTeDA	55.8		10 - 130	06/18/25 10:41	06/20/25 17:15	1
13C3-PFBS	74.3		55 - 150	06/18/25 10:41	06/20/25 17:15	1
13C3-PFHxS	63.7		55 - 150	06/18/25 10:41	06/20/25 17:15	1
13C8-PFOS	75.4		45 - 140	06/18/25 10:41	06/20/25 17:15	1
13C8-PFOSA	0.288		0 - 10	06/18/25 10:41	06/20/25 17:15	1
d3-NMeFOSAA	87.8		45 - 200	06/18/25 10:41	06/20/25 17:15	1
d5-NEtFOSAA	96.6		10 - 200	06/18/25 10:41	06/20/25 17:15	1
13C2-4:2 FTS	78.7		60 - 200	06/18/25 10:41	06/20/25 17:15	1
13C2-6:2 FTS	86.4		60 - 200	06/18/25 10:41	06/20/25 17:15	1
13C2-8:2 FTS	79.3		50 - 200	06/18/25 10:41	06/20/25 17:15	1
13C3-HFPO-DA	68.0		25 - 160	06/18/25 10:41	06/20/25 17:15	1
D7-NMeFOSE	53.4		10 - 150	06/18/25 10:41	06/20/25 17:15	1
D9-NEtFOSE	54.8		10 - 150	06/18/25 10:41	06/20/25 17:15	1
d5-NEtPFOSA	61.8		10 - 130	06/18/25 10:41	06/20/25 17:15	1
d3-NMePFOSA	64.9		15 - 130	06/18/25 10:41	06/20/25 17:15	1
13C2 PFOA	71.3		40 - 130	06/18/25 10:41	06/20/25 17:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	57		50 - 150	06/18/25 10:41	06/20/25 17:15	1
M3PFPeA	64		50 - 150	06/18/25 10:41	06/20/25 17:15	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1710-54th-01

Lab Sample ID: 410-226305-6

Date Collected: 06/04/25 10:20

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	12		3.2	0.87	ng/L		07/01/25 14:27	07/02/25 11:54	1
Perfluoropentanoic acid (PFPeA)	11		1.6	0.48	ng/L		07/01/25 14:27	07/02/25 11:54	1
Perfluorohexanoic acid (PFHxA)	13		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Perfluoroheptanoic acid (PFHpA)	2.9		1.6	0.63	ng/L		07/01/25 14:27	07/02/25 11:54	1
Perfluorodecanoic acid (PFDA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Perfluoroundecanoic acid (PFUnA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Perfluorododecanoic acid (PFDoA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Perfluorotridecanoic acid (PFTrDA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Perfluorotetradecanoic acid (PFTeDA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Perfluorobutanesulfonic acid (PFBS)	14		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Perfluoropentanesulfonic acid (PFPeS)	8.9		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Perfluorononanesulfonic acid (PFNS)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Perfluorodecanesulfonic acid (PFDS)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Perfluorododecanesulfonic acid (PFDoS)	<0.48		1.6	0.48	ng/L		07/01/25 14:27	07/02/25 11:54	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.79		3.2	0.79	ng/L		07/01/25 14:27	07/02/25 11:54	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.79		3.2	0.79	ng/L		07/01/25 14:27	07/02/25 11:54	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.79		3.2	0.79	ng/L		07/01/25 14:27	07/02/25 11:54	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.1		1.6	1.1	ng/L		07/01/25 14:27	07/02/25 11:54	1
4,8-Dioxo-3H-perfluorononanoic acid (DONA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.79		3.2	0.79	ng/L		07/01/25 14:27	07/02/25 11:54	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.2		7.9	2.2	ng/L		07/01/25 14:27	07/02/25 11:54	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<2.0		7.9	2.0	ng/L		07/01/25 14:27	07/02/25 11:54	1
Br-Perfluorooctanoic acid (Br-PFOA)	<0.71		1.6	0.71	ng/L		07/01/25 14:27	07/02/25 11:54	1
L-Perfluorooctanoic acid (L-PFOA)	0.89 J		1.6	0.71	ng/L		07/01/25 14:27	07/02/25 11:54	1
Total PFOA	1.4 J		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Br-Perfluorononanoic acid (Br-PFNA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
L-Perfluorononanoic acid (L-PFNA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Total PFNA	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1710-54th-01

Lab Sample ID: 410-226305-6

Date Collected: 06/04/25 10:20

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	4.7		1.6	0.63	ng/L		07/01/25 14:27	07/02/25 11:54	1
L-Perfluorohexanesulfonic acid (L-PFHxS)	11		1.6	0.63	ng/L		07/01/25 14:27	07/02/25 11:54	1
Total PFHxS	16		1.6	0.63	ng/L		07/01/25 14:27	07/02/25 11:54	1
Br-Perfluorooctanesulfonic acid (PFOS)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
L-Perfluorooctanesulfonic acid (PFOS)	<1.0		1.6	1.0	ng/L		07/01/25 14:27	07/02/25 11:54	1
Total PFOS	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Br-N-methylperfluorooctanesulfonamidoacetic acid (Br-NMeFOSAA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
L-N-methylperfluorooctanesulfonamidoacetic acid (L-NMeFOSAA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Total NMeFOSAA	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid (Br-NEtFOSAA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
L-N-ethylperfluorooctanesulfonamidoacetic acid (L-NEtFOSAA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Total NEtFOSAA	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Br-N-ethylperfluorooctane sulfonamide (Br-NEtFOSA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
L-N-ethylperfluorooctane sulfonamide (L-NEtFOSA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Total NEtFOSA	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Br-N-methylperfluorooctane sulfonamide (Br-NMeFOSA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
L-N-methylperfluorooctane sulfonamide (L-NMeFOSA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Total NMeFOSA	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Br-Perfluorooctanesulfonamide (PFOSA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
L-Perfluorooctanesulfonamide (L-PFOSA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Total PFOSA	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 11:54	1
Br-2-(N-ethylperfluoro-1-octanesulfonamido) ethanol (Br-NEtFOSE)	<2.0		7.9	2.0	ng/L		07/01/25 14:27	07/02/25 11:54	1
L-N-ethylperfluorooctane sulfonamidoethanol (L-NEtFOSE)	<3.2		7.9	3.2	ng/L		07/01/25 14:27	07/02/25 11:54	1
Total NEtFOSE	<2.0		7.9	2.0	ng/L		07/01/25 14:27	07/02/25 11:54	1
Br-2-(N-methylperfluoro-1-octanesulfonamido) ethanol (Br-NMeFOSE)	<2.0		7.9	2.0	ng/L		07/01/25 14:27	07/02/25 11:54	1
L-N-methylperfluorooctane sulfonamidoethanol (L-NMeFOSE)	<2.0		7.9	2.0	ng/L		07/01/25 14:27	07/02/25 11:54	1
Total NMeFOSE	<2.0		7.9	2.0	ng/L		07/01/25 14:27	07/02/25 11:54	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	97		5 - 130				07/01/25 14:27	07/02/25 11:54	1
13C5 PFPeA	98		40 - 130				07/01/25 14:27	07/02/25 11:54	1
13C5 PFHxA	108		40 - 130				07/01/25 14:27	07/02/25 11:54	1
13C4 PFHpA	94		40 - 130				07/01/25 14:27	07/02/25 11:54	1
13C8 PFOA	100		40 - 130				07/01/25 14:27	07/02/25 11:54	1
13C9 PFNA	91		40 - 130				07/01/25 14:27	07/02/25 11:54	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1710-54th-01

Lab Sample ID: 410-226305-6

Date Collected: 06/04/25 10:20

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6 PFDA	90		40 - 130	07/01/25 14:27	07/02/25 11:54	1
13C7 PFUnA	83		30 - 130	07/01/25 14:27	07/02/25 11:54	1
13C2 PFDoA	80		10 - 130	07/01/25 14:27	07/02/25 11:54	1
13C2 PFTeDA	72		10 - 130	07/01/25 14:27	07/02/25 11:54	1
13C3 PFBS	94		40 - 135	07/01/25 14:27	07/02/25 11:54	1
13C3 PFHxS	94		40 - 130	07/01/25 14:27	07/02/25 11:54	1
13C8 PFOS	101		40 - 130	07/01/25 14:27	07/02/25 11:54	1
13C8 FOSA	81		40 - 130	07/01/25 14:27	07/02/25 11:54	1
d3-NMeFOSAA	90		40 - 170	07/01/25 14:27	07/02/25 11:54	1
d5-NEtFOSAA	88		25 - 135	07/01/25 14:27	07/02/25 11:54	1
13C2 4:2 FTS	97		40 - 200	07/01/25 14:27	07/02/25 11:54	1
13C2 6:2 FTS	106		40 - 200	07/01/25 14:27	07/02/25 11:54	1
13C2 8:2 FTS	87		40 - 300	07/01/25 14:27	07/02/25 11:54	1
13C3 HFPO-DA	95		40 - 130	07/01/25 14:27	07/02/25 11:54	1
d7-N-MeFOSE-M	63		10 - 130	07/01/25 14:27	07/02/25 11:54	1
d9-N-EtFOSE-M	59		10 - 130	07/01/25 14:27	07/02/25 11:54	1
d5-NEtPFOSA	53		10 - 130	07/01/25 14:27	07/02/25 11:54	1
d3-NMePFOSA	54		10 - 130	07/01/25 14:27	07/02/25 11:54	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	13		3.0	0.83	ng/L		06/11/25 06:46	06/12/25 20:33	1
Perfluoropentanoic acid (PFPA)	12		1.5	0.45	ng/L		06/11/25 06:46	06/12/25 20:33	1
Perfluorohexanoic acid (PFHxA)	16		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:33	1
Perfluoroheptanoic acid (PFHpA)	3.3		1.5	0.60	ng/L		06/11/25 06:46	06/12/25 20:33	1
Perfluorooctanoic acid (PFOA)	1.5		1.5	0.68	ng/L		06/11/25 06:46	06/12/25 20:33	1
Perfluorononanoic acid (PFNA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:33	1
Perfluorodecanoic acid (PFDA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:33	1
Perfluoroundecanoic acid (PFUnA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:33	1
Perfluorododecanoic acid (PFDoA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:33	1
Perfluorotridecanoic acid (PFTriDA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:33	1
Perfluorotetradecanoic acid (PFTeDA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:33	1
Perfluorobutanesulfonic acid (PFBS)	15		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:33	1
Perfluoropentanesulfonic acid (PFPeS)	9.2		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:33	1
Perfluorohexanesulfonic acid (PFHxS)	19		1.5	0.60	ng/L		06/11/25 06:46	06/12/25 20:33	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:33	1
Perfluorooctanesulfonic acid (PFOS)	8.0		1.5	0.98	ng/L		06/11/25 06:46	06/12/25 20:33	1
Perfluorononanesulfonic acid (PFNS)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:33	1
Perfluorodecanesulfonic acid (PFDS)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:33	1
Perfluorododecanesulfonic acid (PFDoS)	<0.45		1.5	0.45	ng/L		06/11/25 06:46	06/12/25 20:33	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.76		3.0	0.76	ng/L		06/11/25 06:46	06/12/25 20:33	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.76		3.0	0.76	ng/L		06/11/25 06:46	06/12/25 20:33	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.76		3.0	0.76	ng/L		06/11/25 06:46	06/12/25 20:33	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1710-54th-01

Lab Sample ID: 410-226305-6

Date Collected: 06/04/25 10:20

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonamide (PFOSA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:33	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:33	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:33	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:33	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:33	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<1.9		7.6	1.9	ng/L		06/11/25 06:46	06/12/25 20:33	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<3.0		7.6	3.0	ng/L		06/11/25 06:46	06/12/25 20:33	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.1		1.5	1.1	ng/L		06/11/25 06:46	06/12/25 20:33	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:33	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:33	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:33	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:33	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:33	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:33	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 20:33	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.76		3.0	0.76	ng/L		06/11/25 06:46	06/12/25 20:33	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.1		7.6	2.1	ng/L		06/11/25 06:46	06/12/25 20:33	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<1.9		7.6	1.9	ng/L		06/11/25 06:46	06/12/25 20:33	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	90.4		5 - 130	06/11/25 06:46	06/12/25 20:33	1
13C5-PFPeA	83.1		40 - 130	06/11/25 06:46	06/12/25 20:33	1
13C5-PFHxA	83.4		40 - 130	06/11/25 06:46	06/12/25 20:33	1
13C4-PFHpA	83.0		40 - 130	06/11/25 06:46	06/12/25 20:33	1
13C8-PFOA	86.8		40 - 130	06/11/25 06:46	06/12/25 20:33	1
13C9-PFNA	83.8		40 - 130	06/11/25 06:46	06/12/25 20:33	1
13C6-PFDA	89.5		40 - 130	06/11/25 06:46	06/12/25 20:33	1
13C7-PFUnA	99.4		30 - 130	06/11/25 06:46	06/12/25 20:33	1
13C2-PFTeDA	84.0		10 - 130	06/11/25 06:46	06/12/25 20:33	1
13C3-PFBS	91.9		40 - 135	06/11/25 06:46	06/12/25 20:33	1
13C3-PFHxS	88.3		40 - 130	06/11/25 06:46	06/12/25 20:33	1
13C8-PFOS	87.0		40 - 130	06/11/25 06:46	06/12/25 20:33	1
13C8-PFOSA	75.5		40 - 130	06/11/25 06:46	06/12/25 20:33	1
d3-NMeFOSAA	81.9		40 - 170	06/11/25 06:46	06/12/25 20:33	1
d5-NEtFOSAA	66.2		25 - 135	06/11/25 06:46	06/12/25 20:33	1
13C2-4:2 FTS	97.2		40 - 200	06/11/25 06:46	06/12/25 20:33	1
13C2-6:2 FTS	92.7		40 - 200	06/11/25 06:46	06/12/25 20:33	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1710-54th-01

Lab Sample ID: 410-226305-6

Date Collected: 06/04/25 10:20

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-8:2 FTS	82.0		40 - 300	06/11/25 06:46	06/12/25 20:33	1
13C3-HFPO-DA	77.2		40 - 130	06/11/25 06:46	06/12/25 20:33	1
D7-NMeFOSE	74.1		10 - 130	06/11/25 06:46	06/12/25 20:33	1
D9-NEtFOSE	69.2		10 - 130	06/11/25 06:46	06/12/25 20:33	1
d5-NEtPFOSA	66.1		10 - 130	06/11/25 06:46	06/12/25 20:33	1
d3-NMePFOSA	70.1		10 - 130	06/11/25 06:46	06/12/25 20:33	1
13C2 PFDoA	92.9		10 - 130	06/11/25 06:46	06/12/25 20:33	1

Method: TAL SOP Total PFCA-Dif - Total PFCA (Treatment Difference)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	20				ng/L			07/03/25 10:24	1
Perfluorobutanoic acid (PFBA)	0.00				ng/L			07/03/25 10:24	1
Perfluoroheptanoic acid (PFHpA)	8.6				ng/L			07/03/25 10:24	1
Perfluorohexanoic acid (PFHxA)	8.1				ng/L			07/03/25 10:24	1
Perfluorononanoic acid (PFNA)	0.00				ng/L			07/03/25 10:24	1
Perfluorooctanoic acid (PFOA)	9.4				ng/L			07/03/25 10:24	1
Perfluoropentanoic acid (PFPA)	7.2				ng/L			07/03/25 10:24	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	46	J	500	0.20	ng/L			06/12/25 20:33	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	66	J	500	0.20	ng/L			06/20/25 17:15	1

Client Sample ID: 1670-54th-02

Lab Sample ID: 410-226305-7

Date Collected: 06/04/25 10:30

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	39		20	5.4	ng/L		06/18/25 10:41	06/20/25 17:29	1
Perfluoropentanoic acid (PFPA)	36		9.8	2.9	ng/L		06/18/25 10:41	06/20/25 17:29	1
Perfluorohexanoic acid (PFHxA)	32		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 17:29	1
Perfluoroheptanoic acid (PFHpA)	26		9.8	3.9	ng/L		06/18/25 10:41	06/20/25 17:29	1
Perfluorooctanoic acid (PFOA)	74		9.8	4.4	ng/L		06/18/25 10:41	06/20/25 17:29	1
Perfluorononanoic acid (PFNA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 17:29	1
Perfluorodecanoic acid (PFDA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 17:29	1
Perfluoroundecanoic acid (PFUnA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 17:29	1
Perfluorododecanoic acid (PFDoA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 17:29	1
Perfluorotridecanoic acid (PFTriDA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 17:29	1
Perfluorotetradecanoic acid (PFTeDA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 17:29	1
Perfluorobutanesulfonic acid (PFBS)	23		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 17:29	1
Perfluoropentanesulfonic acid (PFPeS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 17:29	1
Perfluorohexanesulfonic acid (PFHxS)	19		9.8	3.9	ng/L		06/18/25 10:41	06/20/25 17:29	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 17:29	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1670-54th-02

Lab Sample ID: 410-226305-7

Date Collected: 06/04/25 10:30

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	47		9.8	6.4	ng/L		06/18/25 10:41	06/20/25 17:29	1
Perfluorononanesulfonic acid (PFNS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 17:29	1
Perfluorododecanesulfonic acid (PFDoS)	<2.9		9.8	2.9	ng/L		06/18/25 10:41	06/20/25 17:29	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 17:29	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 17:29	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 17:29	1
Perfluorooctanesulfonamide (PFOSA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 17:29	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 17:29	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 17:29	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 17:29	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 17:29	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<12		49	12	ng/L		06/18/25 10:41	06/20/25 17:29	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<20		49	20	ng/L		06/18/25 10:41	06/20/25 17:29	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<6.9		9.8	6.9	ng/L		06/18/25 10:41	06/20/25 17:29	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 17:29	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 17:29	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 17:29	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 17:29	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 17:29	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 17:29	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 17:29	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 17:29	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<14		49	14	ng/L		06/18/25 10:41	06/20/25 17:29	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<12		49	12	ng/L		06/18/25 10:41	06/20/25 17:29	1
Perfluorodecanesulfonic acid (PFDS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 17:29	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	87.1		10 - 130				06/18/25 10:41	06/20/25 17:29	1
13C5-PFPeA	89.2		35 - 150				06/18/25 10:41	06/20/25 17:29	1
13C5-PFHxA	96.1		55 - 150				06/18/25 10:41	06/20/25 17:29	1
13C4-PFHpA	94.1		55 - 150				06/18/25 10:41	06/20/25 17:29	1
13C9-PFNA	82.0		55 - 140				06/18/25 10:41	06/20/25 17:29	1
13C6-PFDA	95.6		50 - 140				06/18/25 10:41	06/20/25 17:29	1
13C7-PFUnA	89.4		30 - 140				06/18/25 10:41	06/20/25 17:29	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1670-54th-02

Lab Sample ID: 410-226305-7

Date Collected: 06/04/25 10:30

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDoA	85.8		10 - 150	06/18/25 10:41	06/20/25 17:29	1
13C2-PFTeDA	80.5		10 - 130	06/18/25 10:41	06/20/25 17:29	1
13C3-PFBS	92.0		55 - 150	06/18/25 10:41	06/20/25 17:29	1
13C3-PFHxS	88.1		55 - 150	06/18/25 10:41	06/20/25 17:29	1
13C8-PFOS	97.3		45 - 140	06/18/25 10:41	06/20/25 17:29	1
13C8-PFOSA	0.725		0 - 10	06/18/25 10:41	06/20/25 17:29	1
d3-NMeFOSAA	111		45 - 200	06/18/25 10:41	06/20/25 17:29	1
d5-NEtFOSAA	124		10 - 200	06/18/25 10:41	06/20/25 17:29	1
13C2-4:2 FTS	90.7		60 - 200	06/18/25 10:41	06/20/25 17:29	1
13C2-6:2 FTS	108		60 - 200	06/18/25 10:41	06/20/25 17:29	1
13C2-8:2 FTS	99.1		50 - 200	06/18/25 10:41	06/20/25 17:29	1
13C3-HFPO-DA	86.0		25 - 160	06/18/25 10:41	06/20/25 17:29	1
D7-NMeFOSE	80.2		10 - 150	06/18/25 10:41	06/20/25 17:29	1
D9-NEtFOSE	84.1		10 - 150	06/18/25 10:41	06/20/25 17:29	1
d5-NEtPFOSA	86.7		10 - 130	06/18/25 10:41	06/20/25 17:29	1
d3-NMePFOSA	90.4		15 - 130	06/18/25 10:41	06/20/25 17:29	1
13C2 PFOA	87.6		40 - 130	06/18/25 10:41	06/20/25 17:29	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	75		50 - 150	06/18/25 10:41	06/20/25 17:29	1
M3PPeA	81		50 - 150	06/18/25 10:41	06/20/25 17:29	1

Method: EPA 1633_BLT - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	28		2.9	0.81	ng/L		07/01/25 14:27	07/02/25 12:07	1
Perfluoropentanoic acid (PFPeA)	25		1.5	0.44	ng/L		07/01/25 14:27	07/02/25 12:07	1
Perfluorohexanoic acid (PFHxA)	23		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Perfluoroheptanoic acid (PFHpA)	17		1.5	0.59	ng/L		07/01/25 14:27	07/02/25 12:07	1
Perfluorodecanoic acid (PFDA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Perfluoroundecanoic acid (PFUnA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Perfluorododecanoic acid (PFDoA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Perfluorotridecanoic acid (PFTrDA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Perfluorotetradecanoic acid (PFTeDA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Perfluorobutanesulfonic acid (PFBS)	18		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Perfluoropentanesulfonic acid (PFPeS)	0.81 J		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Perfluoroheptanesulfonic acid (PFHpS)	0.79 J		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Perfluorononanesulfonic acid (PFNS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Perfluorodecanesulfonic acid (PFDS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Perfluorododecanesulfonic acid (PFDoS)	<0.44		1.5	0.44	ng/L		07/01/25 14:27	07/02/25 12:07	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.73		2.9	0.73	ng/L		07/01/25 14:27	07/02/25 12:07	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.73		2.9	0.73	ng/L		07/01/25 14:27	07/02/25 12:07	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.73		2.9	0.73	ng/L		07/01/25 14:27	07/02/25 12:07	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.0		1.5	1.0	ng/L		07/01/25 14:27	07/02/25 12:07	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1670-54th-02

Lab Sample ID: 410-226305-7

Date Collected: 06/04/25 10:30

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.73		2.9	0.73	ng/L		07/01/25 14:27	07/02/25 12:07	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.1		7.3	2.1	ng/L		07/01/25 14:27	07/02/25 12:07	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<1.8		7.3	1.8	ng/L		07/01/25 14:27	07/02/25 12:07	1
Br-Perfluorooctanoic acid (Br-PFOA)	3.7		1.5	0.66	ng/L		07/01/25 14:27	07/02/25 12:07	1
L-Perfluorooctanoic acid (L-PFOA)	41		1.5	0.66	ng/L		07/01/25 14:27	07/02/25 12:07	1
Total PFOA	44		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Br-Perfluorononanoic acid (Br-PFNA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
L-Perfluorononanoic acid (L-PFNA)	0.50	J	1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Total PFNA	0.57	J	1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	1.3	J	1.5	0.59	ng/L		07/01/25 14:27	07/02/25 12:07	1
L-Perfluorohexanesulfonic acid (L-PFHxS)	10		1.5	0.59	ng/L		07/01/25 14:27	07/02/25 12:07	1
Total PFHxS	11		1.5	0.59	ng/L		07/01/25 14:27	07/02/25 12:07	1
Br-Perfluorooctanesulfonic acid (PFOS)	3.8		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
L-Perfluorooctanesulfonic acid (PFOS)	2.0		1.5	0.95	ng/L		07/01/25 14:27	07/02/25 12:07	1
Total PFOS	5.8		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Br-N-methylperfluorooctanesulfonamidoacetic acid (Br-NMeFOSAA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
L-N-methylperfluorooctanesulfonamidoacetic acid (L-NMeFOSAA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Total NMeFOSAA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid (Br-NEtFOSAA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
L-N-ethylperfluorooctanesulfonamidoacetic acid (L-NEtFOSAA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Total NEtFOSAA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Br-N-ethylperfluorooctane sulfonamide (Br-NEtFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
L-N-ethylperfluorooctane sulfonamide (L-NEtFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Total NEtFOSA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1670-54th-02

Lab Sample ID: 410-226305-7

Date Collected: 06/04/25 10:30

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Br-N-methylperfluorooctane sulfonamide (Br-NMeFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
L-N-methylperfluorooctane sulfonamide (L-NMeFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Total NMeFOSA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Br-Perfluorooctanesulfonamide (PFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
L-Perfluorooctanesulfonamide (L-PFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Total PFOSA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:07	1
Br-2-(N-ethylperfluoro-1-octanesulfonamido) ethanol (Br-NEtFOSE)	<1.8		7.3	1.8	ng/L		07/01/25 14:27	07/02/25 12:07	1
L-N-ethylperfluorooctane sulfonamidoethanol (L-NEtFOSE)	<2.9		7.3	2.9	ng/L		07/01/25 14:27	07/02/25 12:07	1
Total NEtFOSE	<1.8		7.3	1.8	ng/L		07/01/25 14:27	07/02/25 12:07	1
Br-2-(N-methylperfluoro-1-octanesulfonamido) ethanol (Br-NMeFOSE)	<1.8		7.3	1.8	ng/L		07/01/25 14:27	07/02/25 12:07	1
L-N-methylperfluorooctane sulfonamidoethanol (L-NMeFOSE)	<1.8		7.3	1.8	ng/L		07/01/25 14:27	07/02/25 12:07	1
Total NMeFOSE	<1.8		7.3	1.8	ng/L		07/01/25 14:27	07/02/25 12:07	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	102		5 - 130				07/01/25 14:27	07/02/25 12:07	1
13C5 PFPeA	111		40 - 130				07/01/25 14:27	07/02/25 12:07	1
13C5 PFHxA	110		40 - 130				07/01/25 14:27	07/02/25 12:07	1
13C4 PFHpA	104		40 - 130				07/01/25 14:27	07/02/25 12:07	1
13C8 PFOA	110		40 - 130				07/01/25 14:27	07/02/25 12:07	1
13C9 PFNA	107		40 - 130				07/01/25 14:27	07/02/25 12:07	1
13C6 PFDA	107		40 - 130				07/01/25 14:27	07/02/25 12:07	1
13C7 PFUnA	102		30 - 130				07/01/25 14:27	07/02/25 12:07	1
13C2 PFDoA	103		10 - 130				07/01/25 14:27	07/02/25 12:07	1
13C2 PFTeDA	93		10 - 130				07/01/25 14:27	07/02/25 12:07	1
13C3 PFBS	100		40 - 135				07/01/25 14:27	07/02/25 12:07	1
13C3 PFHxS	106		40 - 130				07/01/25 14:27	07/02/25 12:07	1
13C8 PFOS	107		40 - 130				07/01/25 14:27	07/02/25 12:07	1
13C8 FOSA	98		40 - 130				07/01/25 14:27	07/02/25 12:07	1
d3-NMeFOSAA	110		40 - 170				07/01/25 14:27	07/02/25 12:07	1
d5-NEtFOSAA	108		25 - 135				07/01/25 14:27	07/02/25 12:07	1
13C2 4:2 FTS	104		40 - 200				07/01/25 14:27	07/02/25 12:07	1
13C2 6:2 FTS	113		40 - 200				07/01/25 14:27	07/02/25 12:07	1
13C2 8:2 FTS	98		40 - 300				07/01/25 14:27	07/02/25 12:07	1
13C3 HFPO-DA	107		40 - 130				07/01/25 14:27	07/02/25 12:07	1
d7-N-MeFOSE-M	79		10 - 130				07/01/25 14:27	07/02/25 12:07	1
d9-N-EtFOSE-M	71		10 - 130				07/01/25 14:27	07/02/25 12:07	1
d5-NEtPFOSA	69		10 - 130				07/01/25 14:27	07/02/25 12:07	1
d3-NMePFOSA	71		10 - 130				07/01/25 14:27	07/02/25 12:07	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	33		2.9	0.79	ng/L		06/11/25 06:46	06/12/25 20:47	1
Perfluoropentanoic acid (PFPA)	32		1.4	0.43	ng/L		06/11/25 06:46	06/12/25 20:47	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1670-54th-02

Lab Sample ID: 410-226305-7

Date Collected: 06/04/25 10:30

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	29		1.4	0.36	ng/L		06/11/25 06:46	06/12/25 20:47	1
Perfluoroheptanoic acid (PFHpA)	21		1.4	0.57	ng/L		06/11/25 06:46	06/12/25 20:47	1
Perfluorooctanoic acid (PFOA)	63		1.4	0.65	ng/L		06/11/25 06:46	06/12/25 20:47	1
Perfluorononanoic acid (PFNA)	0.76	J	1.4	0.36	ng/L		06/11/25 06:46	06/12/25 20:47	1
Perfluorodecanoic acid (PFDA)	<0.36		1.4	0.36	ng/L		06/11/25 06:46	06/12/25 20:47	1
Perfluoroundecanoic acid (PFUnA)	<0.36		1.4	0.36	ng/L		06/11/25 06:46	06/12/25 20:47	1
Perfluorododecanoic acid (PFDoA)	<0.36		1.4	0.36	ng/L		06/11/25 06:46	06/12/25 20:47	1
Perfluorotridecanoic acid (PFTrDA)	<0.36		1.4	0.36	ng/L		06/11/25 06:46	06/12/25 20:47	1
Perfluorotetradecanoic acid (PFTeDA)	<0.36		1.4	0.36	ng/L		06/11/25 06:46	06/12/25 20:47	1
Perfluorobutanesulfonic acid (PFBS)	22		1.4	0.36	ng/L		06/11/25 06:46	06/12/25 20:47	1
Perfluoropentanesulfonic acid (PFPeS)	1.1	J	1.4	0.36	ng/L		06/11/25 06:46	06/12/25 20:47	1
Perfluorohexanesulfonic acid (PFHxS)	17		1.4	0.57	ng/L		06/11/25 06:46	06/12/25 20:47	1
Perfluoroheptanesulfonic acid (PFHpS)	1.1	J	1.4	0.36	ng/L		06/11/25 06:46	06/12/25 20:47	1
Perfluorooctanesulfonic acid (PFOS)	17		1.4	0.93	ng/L		06/11/25 06:46	06/12/25 20:47	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.4	0.36	ng/L		06/11/25 06:46	06/12/25 20:47	1
Perfluorodecanesulfonic acid (PFDS)	<0.36		1.4	0.36	ng/L		06/11/25 06:46	06/12/25 20:47	1
Perfluorododecanesulfonic acid (PFDoS)	<0.43		1.4	0.43	ng/L		06/11/25 06:46	06/12/25 20:47	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.72		2.9	0.72	ng/L		06/11/25 06:46	06/12/25 20:47	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.72		2.9	0.72	ng/L		06/11/25 06:46	06/12/25 20:47	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.72		2.9	0.72	ng/L		06/11/25 06:46	06/12/25 20:47	1
Perfluorooctanesulfonamide (PFOSA)	<0.36		1.4	0.36	ng/L		06/11/25 06:46	06/12/25 20:47	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.36		1.4	0.36	ng/L		06/11/25 06:46	06/12/25 20:47	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<0.36		1.4	0.36	ng/L		06/11/25 06:46	06/12/25 20:47	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.36		1.4	0.36	ng/L		06/11/25 06:46	06/12/25 20:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.36		1.4	0.36	ng/L		06/11/25 06:46	06/12/25 20:47	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<1.8		7.2	1.8	ng/L		06/11/25 06:46	06/12/25 20:47	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<2.9		7.2	2.9	ng/L		06/11/25 06:46	06/12/25 20:47	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.0		1.4	1.0	ng/L		06/11/25 06:46	06/12/25 20:47	1
4,8-Dioxo-3H-perfluorononanoic acid (DONA)	<0.36		1.4	0.36	ng/L		06/11/25 06:46	06/12/25 20:47	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.36		1.4	0.36	ng/L		06/11/25 06:46	06/12/25 20:47	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.36		1.4	0.36	ng/L		06/11/25 06:46	06/12/25 20:47	1
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	<0.36		1.4	0.36	ng/L		06/11/25 06:46	06/12/25 20:47	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.36		1.4	0.36	ng/L		06/11/25 06:46	06/12/25 20:47	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1670-54th-02

Lab Sample ID: 410-226305-7

Date Collected: 06/04/25 10:30

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.36		1.4	0.36	ng/L		06/11/25 06:46	06/12/25 20:47	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFESA)	<0.36		1.4	0.36	ng/L		06/11/25 06:46	06/12/25 20:47	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.72		2.9	0.72	ng/L		06/11/25 06:46	06/12/25 20:47	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.0		7.2	2.0	ng/L		06/11/25 06:46	06/12/25 20:47	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<1.8		7.2	1.8	ng/L		06/11/25 06:46	06/12/25 20:47	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	93.6		5 - 130	06/11/25 06:46	06/12/25 20:47	1
13C5-PFPeA	88.9		40 - 130	06/11/25 06:46	06/12/25 20:47	1
13C5-PFHxA	88.8		40 - 130	06/11/25 06:46	06/12/25 20:47	1
13C4-PFHpA	85.5		40 - 130	06/11/25 06:46	06/12/25 20:47	1
13C8-PFOA	90.5		40 - 130	06/11/25 06:46	06/12/25 20:47	1
13C9-PFNA	87.6		40 - 130	06/11/25 06:46	06/12/25 20:47	1
13C6-PFDA	92.9		40 - 130	06/11/25 06:46	06/12/25 20:47	1
13C7-PFUnA	92.7		30 - 130	06/11/25 06:46	06/12/25 20:47	1
13C2-PFTeDA	78.5		10 - 130	06/11/25 06:46	06/12/25 20:47	1
13C3-PFBS	93.1		40 - 135	06/11/25 06:46	06/12/25 20:47	1
13C3-PFHxS	88.7		40 - 130	06/11/25 06:46	06/12/25 20:47	1
13C8-PFOS	87.9		40 - 130	06/11/25 06:46	06/12/25 20:47	1
13C8-PFOSA	76.5		40 - 130	06/11/25 06:46	06/12/25 20:47	1
d3-NMeFOSAA	78.6		40 - 170	06/11/25 06:46	06/12/25 20:47	1
d5-NEtFOSAA	67.3		25 - 135	06/11/25 06:46	06/12/25 20:47	1
13C2-4:2 FTS	104		40 - 200	06/11/25 06:46	06/12/25 20:47	1
13C2-6:2 FTS	95.5		40 - 200	06/11/25 06:46	06/12/25 20:47	1
13C2-8:2 FTS	79.9		40 - 300	06/11/25 06:46	06/12/25 20:47	1
13C3-HFPO-DA	79.3		40 - 130	06/11/25 06:46	06/12/25 20:47	1
D7-NMeFOSE	73.8		10 - 130	06/11/25 06:46	06/12/25 20:47	1
D9-NEtFOSE	70.4		10 - 130	06/11/25 06:46	06/12/25 20:47	1
d5-NEtPFOSA	62.2		10 - 130	06/11/25 06:46	06/12/25 20:47	1
d3-NMePFOSA	67.9		10 - 130	06/11/25 06:46	06/12/25 20:47	1
13C2 PFDaA	85.8		10 - 130	06/11/25 06:46	06/12/25 20:47	1

Method: TAL SOP Total PFCA-Dif - Total PFCA (Treatment Difference)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	28				ng/L			07/03/25 10:24	1
Perfluorobutanoic acid (PFBA)	6.7				ng/L			07/03/25 10:24	1
Perfluoroheptanoic acid (PFHpA)	5.4				ng/L			07/03/25 10:24	1
Perfluorohexanoic acid (PFHxA)	3.5				ng/L			07/03/25 10:24	1
Perfluorononanoic acid (PFNA)	0.00				ng/L			07/03/25 10:24	1
Perfluorooctanoic acid (PFOA)	11				ng/L			07/03/25 10:24	1
Perfluoropentanoic acid (PFPA)	3.7				ng/L			07/03/25 10:24	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	180	J	500	0.20	ng/L			06/12/25 20:47	1

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1670-54th-02

Lab Sample ID: 410-226305-7

Date Collected: 06/04/25 10:30

Matrix: Water

Date Received: 06/07/25 10:35

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	210	J	500	0.20	ng/L			06/20/25 17:29	1

Client Sample ID: 1640-52nd-03-Lawn

Lab Sample ID: 410-226305-8

Date Collected: 06/04/25 11:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	18	J	20	5.4	ng/L		06/18/25 10:41	06/20/25 17:42	1
Perfluoropentanoic acid (PFPA)	8.7	J	9.9	3.0	ng/L		06/18/25 10:41	06/20/25 17:42	1
Perfluorohexanoic acid (PFHxA)	12		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 17:42	1
Perfluoroheptanoic acid (PFHpA)	14		9.9	4.0	ng/L		06/18/25 10:41	06/20/25 17:42	1
Perfluorooctanoic acid (PFOA)	14		9.9	4.4	ng/L		06/18/25 10:41	06/20/25 17:42	1
Perfluorononanoic acid (PFNA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 17:42	1
Perfluorodecanoic acid (PFDA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 17:42	1
Perfluoroundecanoic acid (PFUnA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 17:42	1
Perfluorododecanoic acid (PFDoA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 17:42	1
Perfluorotridecanoic acid (PFTriDA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 17:42	1
Perfluorotetradecanoic acid (PFTeDA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 17:42	1
Perfluorobutanesulfonic acid (PFBS)	4.7	J	9.9	2.5	ng/L		06/18/25 10:41	06/20/25 17:42	1
Perfluoropentanesulfonic acid (PFPeS)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 17:42	1
Perfluorohexanesulfonic acid (PFHxS)	<4.0		9.9	4.0	ng/L		06/18/25 10:41	06/20/25 17:42	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 17:42	1
Perfluorooctanesulfonic acid (PFOS)	<6.4		9.9	6.4	ng/L		06/18/25 10:41	06/20/25 17:42	1
Perfluorononanesulfonic acid (PFNS)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 17:42	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		9.9	3.0	ng/L		06/18/25 10:41	06/20/25 17:42	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 17:42	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 17:42	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 17:42	1
Perfluorooctanesulfonamide (PFOSA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 17:42	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 17:42	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 17:42	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 17:42	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 17:42	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<12		49	12	ng/L		06/18/25 10:41	06/20/25 17:42	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<20		49	20	ng/L		06/18/25 10:41	06/20/25 17:42	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<6.9		9.9	6.9	ng/L		06/18/25 10:41	06/20/25 17:42	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 17:42	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1640-52nd-03-Lawn

Lab Sample ID: 410-226305-8

Date Collected: 06/04/25 11:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 17:42	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 17:42	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 17:42	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 17:42	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 17:42	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 17:42	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 17:42	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<14		49	14	ng/L		06/18/25 10:41	06/20/25 17:42	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<12		49	12	ng/L		06/18/25 10:41	06/20/25 17:42	1
Perfluorodecanesulfonic acid (PFDS)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 17:42	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	87.9		10 - 130	06/18/25 10:41	06/20/25 17:42	1
13C5-PFPeA	93.2		35 - 150	06/18/25 10:41	06/20/25 17:42	1
13C5-PFHxA	97.2		55 - 150	06/18/25 10:41	06/20/25 17:42	1
13C4-PFHpA	96.7		55 - 150	06/18/25 10:41	06/20/25 17:42	1
13C9-PFNA	90.7		55 - 140	06/18/25 10:41	06/20/25 17:42	1
13C6-PFDA	94.4		50 - 140	06/18/25 10:41	06/20/25 17:42	1
13C7-PFUnA	96.5		30 - 140	06/18/25 10:41	06/20/25 17:42	1
13C2 PFDoA	81.6		10 - 150	06/18/25 10:41	06/20/25 17:42	1
13C2-PFTeDA	70.9		10 - 130	06/18/25 10:41	06/20/25 17:42	1
13C3-PFBS	95.9		55 - 150	06/18/25 10:41	06/20/25 17:42	1
13C3-PFHxS	96.2		55 - 150	06/18/25 10:41	06/20/25 17:42	1
13C8-PFOS	99.1		45 - 140	06/18/25 10:41	06/20/25 17:42	1
13C8-PFOSA	0.299		0 - 10	06/18/25 10:41	06/20/25 17:42	1
d3-NMeFOSAA	116		45 - 200	06/18/25 10:41	06/20/25 17:42	1
d5-NEtFOSAA	121		10 - 200	06/18/25 10:41	06/20/25 17:42	1
13C2-4:2 FTS	100		60 - 200	06/18/25 10:41	06/20/25 17:42	1
13C2-6:2 FTS	111		60 - 200	06/18/25 10:41	06/20/25 17:42	1
13C2-8:2 FTS	101		50 - 200	06/18/25 10:41	06/20/25 17:42	1
13C3-HFPO-DA	84.6		25 - 160	06/18/25 10:41	06/20/25 17:42	1
D7-NMeFOSE	62.2		10 - 150	06/18/25 10:41	06/20/25 17:42	1
D9-NEtFOSE	57.0		10 - 150	06/18/25 10:41	06/20/25 17:42	1
d5-NEtPFOSA	80.6		10 - 130	06/18/25 10:41	06/20/25 17:42	1
d3-NMePFOSA	88.6		15 - 130	06/18/25 10:41	06/20/25 17:42	1
13C2 PFOA	95.2		40 - 130	06/18/25 10:41	06/20/25 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	74		50 - 150	06/18/25 10:41	06/20/25 17:42	1
M3PFPeA	84		50 - 150	06/18/25 10:41	06/20/25 17:42	1

Method: EPA 1633_BLT - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	8.5		3.1	0.86	ng/L		07/01/25 14:27	07/02/25 12:21	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1640-52nd-03-Lawn

Lab Sample ID: 410-226305-8

Date Collected: 06/04/25 11:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	2.4		1.6	0.47	ng/L		07/01/25 14:27	07/02/25 12:21	1
Perfluorohexanoic acid (PFHxA)	2.7		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Perfluoroheptanoic acid (PFHpA)	1.9		1.6	0.62	ng/L		07/01/25 14:27	07/02/25 12:21	1
Perfluorodecanoic acid (PFDA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Perfluoroundecanoic acid (PFUnA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Perfluorododecanoic acid (PFDoA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Perfluorotridecanoic acid (PFTriDA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Perfluorotetradecanoic acid (PFTeDA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Perfluorobutanesulfonic acid (PFBS)	2.5		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Perfluorononanesulfonic acid (PFNS)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Perfluorodecanesulfonic acid (PFDS)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Perfluorododecanesulfonic acid (PFDoS)	<0.47		1.6	0.47	ng/L		07/01/25 14:27	07/02/25 12:21	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.78		3.1	0.78	ng/L		07/01/25 14:27	07/02/25 12:21	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.78		3.1	0.78	ng/L		07/01/25 14:27	07/02/25 12:21	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.78		3.1	0.78	ng/L		07/01/25 14:27	07/02/25 12:21	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.1		1.6	1.1	ng/L		07/01/25 14:27	07/02/25 12:21	1
4,8-Dioxo-3H-perfluorononanoic acid (DONA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.78		3.1	0.78	ng/L		07/01/25 14:27	07/02/25 12:21	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.2		7.8	2.2	ng/L		07/01/25 14:27	07/02/25 12:21	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<1.9		7.8	1.9	ng/L		07/01/25 14:27	07/02/25 12:21	1
Br-Perfluorooctanoic acid (Br-PFOA)	0.81 J		1.6	0.70	ng/L		07/01/25 14:27	07/02/25 12:21	1
L-Perfluorooctanoic acid (L-PFOA)	1.7		1.6	0.70	ng/L		07/01/25 14:27	07/02/25 12:21	1
Total PFOA	2.5		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Br-Perfluorononanoic acid (Br-PFNA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
L-Perfluorononanoic acid (L-PFNA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Total PFNA	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1640-52nd-03-Lawn

Lab Sample ID: 410-226305-8

Date Collected: 06/04/25 11:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	<0.62		1.6	0.62	ng/L		07/01/25 14:27	07/02/25 12:21	1
L-Perfluorohexanesulfonic acid (L-PFHxS)	1.3	J	1.6	0.62	ng/L		07/01/25 14:27	07/02/25 12:21	1
Total PFHxS	1.4	J	1.6	0.62	ng/L		07/01/25 14:27	07/02/25 12:21	1
Br-Perfluorooctanesulfonic acid (PFOS)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
L-Perfluorooctanesulfonic acid (PFOS)	<1.0		1.6	1.0	ng/L		07/01/25 14:27	07/02/25 12:21	1
Total PFOS	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Br-N-methylperfluorooctanesulfonamidoacetic acid (Br-NMeFOSAA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
L-N-methylperfluorooctanesulfonamidoacetic acid (L-NMeFOSAA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Total NMeFOSAA	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid (Br-NEtFOSAA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
L-N-ethylperfluorooctanesulfonamidoacetic acid (L-NEtFOSAA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Total NEtFOSAA	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Br-N-ethylperfluorooctane sulfonamide (Br-NEtFOSA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
L-N-ethylperfluorooctane sulfonamide (L-NEtFOSA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Total NEtFOSA	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Br-N-methylperfluorooctane sulfonamide (Br-NMeFOSA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
L-N-methylperfluorooctane sulfonamide (L-NMeFOSA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Total NMeFOSA	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Br-Perfluorooctanesulfonamide (PFOSA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
L-Perfluorooctanesulfonamide (L-PFOSA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Total PFOSA	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 12:21	1
Br-2-(N-ethylperfluoro-1-octanesulfonamido) ethanol (Br-NEtFOSE)	<1.9		7.8	1.9	ng/L		07/01/25 14:27	07/02/25 12:21	1
L-N-ethylperfluorooctane sulfonamidoethanol (L-NEtFOSE)	<3.1		7.8	3.1	ng/L		07/01/25 14:27	07/02/25 12:21	1
Total NEtFOSE	<1.9		7.8	1.9	ng/L		07/01/25 14:27	07/02/25 12:21	1
Br-2-(N-methylperfluoro-1-octanesulfonamido) ethanol (Br-NMeFOSE)	<1.9		7.8	1.9	ng/L		07/01/25 14:27	07/02/25 12:21	1
L-N-methylperfluorooctane sulfonamidoethanol (L-NMeFOSE)	<1.9		7.8	1.9	ng/L		07/01/25 14:27	07/02/25 12:21	1
Total NMeFOSE	<1.9		7.8	1.9	ng/L		07/01/25 14:27	07/02/25 12:21	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	104		5 - 130				07/01/25 14:27	07/02/25 12:21	1
13C5 PFPeA	103		40 - 130				07/01/25 14:27	07/02/25 12:21	1
13C5 PFHxA	101		40 - 130				07/01/25 14:27	07/02/25 12:21	1
13C4 PFHpA	97		40 - 130				07/01/25 14:27	07/02/25 12:21	1
13C8 PFOA	103		40 - 130				07/01/25 14:27	07/02/25 12:21	1
13C9 PFNA	104		40 - 130				07/01/25 14:27	07/02/25 12:21	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1640-52nd-03-Lawn

Lab Sample ID: 410-226305-8

Date Collected: 06/04/25 11:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6 PFDA	104		40 - 130	07/01/25 14:27	07/02/25 12:21	1
13C7 PFUnA	91		30 - 130	07/01/25 14:27	07/02/25 12:21	1
13C2 PFDoA	88		10 - 130	07/01/25 14:27	07/02/25 12:21	1
13C2 PFTeDA	81		10 - 130	07/01/25 14:27	07/02/25 12:21	1
13C3 PFBS	103		40 - 135	07/01/25 14:27	07/02/25 12:21	1
13C3 PFHxS	98		40 - 130	07/01/25 14:27	07/02/25 12:21	1
13C8 PFOS	105		40 - 130	07/01/25 14:27	07/02/25 12:21	1
13C8 FOSA	93		40 - 130	07/01/25 14:27	07/02/25 12:21	1
d3-NMeFOSAA	99		40 - 170	07/01/25 14:27	07/02/25 12:21	1
d5-NEtFOSAA	97		25 - 135	07/01/25 14:27	07/02/25 12:21	1
13C2 4:2 FTS	99		40 - 200	07/01/25 14:27	07/02/25 12:21	1
13C2 6:2 FTS	115		40 - 200	07/01/25 14:27	07/02/25 12:21	1
13C2 8:2 FTS	97		40 - 300	07/01/25 14:27	07/02/25 12:21	1
13C3 HFPO-DA	101		40 - 130	07/01/25 14:27	07/02/25 12:21	1
d7-N-MeFOSE-M	75		10 - 130	07/01/25 14:27	07/02/25 12:21	1
d9-N-EtFOSE-M	69		10 - 130	07/01/25 14:27	07/02/25 12:21	1
d5-NEtPFOSA	71		10 - 130	07/01/25 14:27	07/02/25 12:21	1
d3-NMePFOSA	72		10 - 130	07/01/25 14:27	07/02/25 12:21	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	13		3.2	0.87	ng/L		06/11/25 06:46	06/12/25 21:00	1
Perfluoropentanoic acid (PFPA)	4.4		1.6	0.47	ng/L		06/11/25 06:46	06/12/25 21:00	1
Perfluorohexanoic acid (PFHxA)	4.8		1.6	0.39	ng/L		06/11/25 06:46	06/12/25 21:00	1
Perfluoroheptanoic acid (PFHpA)	3.3		1.6	0.63	ng/L		06/11/25 06:46	06/12/25 21:00	1
Perfluorooctanoic acid (PFOA)	4.3		1.6	0.71	ng/L		06/11/25 06:46	06/12/25 21:00	1
Perfluorononanoic acid (PFNA)	<0.39		1.6	0.39	ng/L		06/11/25 06:46	06/12/25 21:00	1
Perfluorodecanoic acid (PFDA)	<0.39		1.6	0.39	ng/L		06/11/25 06:46	06/12/25 21:00	1
Perfluoroundecanoic acid (PFUnA)	<0.39		1.6	0.39	ng/L		06/11/25 06:46	06/12/25 21:00	1
Perfluorododecanoic acid (PFDoA)	<0.39		1.6	0.39	ng/L		06/11/25 06:46	06/12/25 21:00	1
Perfluorotridecanoic acid (PFTriDA)	<0.39		1.6	0.39	ng/L		06/11/25 06:46	06/12/25 21:00	1
Perfluorotetradecanoic acid (PFTeDA)	<0.39		1.6	0.39	ng/L		06/11/25 06:46	06/12/25 21:00	1
Perfluorobutanesulfonic acid (PFBS)	4.5		1.6	0.39	ng/L		06/11/25 06:46	06/12/25 21:00	1
Perfluoropentanesulfonic acid (PFPeS)	0.43 J		1.6	0.39	ng/L		06/11/25 06:46	06/12/25 21:00	1
Perfluorohexanesulfonic acid (PFHxS)	5.1		1.6	0.63	ng/L		06/11/25 06:46	06/12/25 21:00	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.39		1.6	0.39	ng/L		06/11/25 06:46	06/12/25 21:00	1
Perfluorooctanesulfonic acid (PFOS)	19		1.6	1.0	ng/L		06/11/25 06:46	06/12/25 21:00	1
Perfluorononanesulfonic acid (PFNS)	<0.39		1.6	0.39	ng/L		06/11/25 06:46	06/12/25 21:00	1
Perfluorodecanesulfonic acid (PFDS)	<0.39		1.6	0.39	ng/L		06/11/25 06:46	06/12/25 21:00	1
Perfluorododecanesulfonic acid (PFDoS)	<0.47		1.6	0.47	ng/L		06/11/25 06:46	06/12/25 21:00	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.79		3.2	0.79	ng/L		06/11/25 06:46	06/12/25 21:00	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.79		3.2	0.79	ng/L		06/11/25 06:46	06/12/25 21:00	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.79		3.2	0.79	ng/L		06/11/25 06:46	06/12/25 21:00	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1640-52nd-03-Lawn

Lab Sample ID: 410-226305-8

Date Collected: 06/04/25 11:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonamide (PFOSA)	<0.39		1.6	0.39	ng/L		06/11/25 06:46	06/12/25 21:00	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.39		1.6	0.39	ng/L		06/11/25 06:46	06/12/25 21:00	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<0.39		1.6	0.39	ng/L		06/11/25 06:46	06/12/25 21:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.39		1.6	0.39	ng/L		06/11/25 06:46	06/12/25 21:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.39		1.6	0.39	ng/L		06/11/25 06:46	06/12/25 21:00	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<2.0		7.9	2.0	ng/L		06/11/25 06:46	06/12/25 21:00	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<3.2		7.9	3.2	ng/L		06/11/25 06:46	06/12/25 21:00	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.1		1.6	1.1	ng/L		06/11/25 06:46	06/12/25 21:00	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<0.39		1.6	0.39	ng/L		06/11/25 06:46	06/12/25 21:00	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.39		1.6	0.39	ng/L		06/11/25 06:46	06/12/25 21:00	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.39		1.6	0.39	ng/L		06/11/25 06:46	06/12/25 21:00	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.39		1.6	0.39	ng/L		06/11/25 06:46	06/12/25 21:00	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.39		1.6	0.39	ng/L		06/11/25 06:46	06/12/25 21:00	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.39		1.6	0.39	ng/L		06/11/25 06:46	06/12/25 21:00	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.39		1.6	0.39	ng/L		06/11/25 06:46	06/12/25 21:00	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.79		3.2	0.79	ng/L		06/11/25 06:46	06/12/25 21:00	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.2		7.9	2.2	ng/L		06/11/25 06:46	06/12/25 21:00	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<2.0		7.9	2.0	ng/L		06/11/25 06:46	06/12/25 21:00	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	92.6		5 - 130	06/11/25 06:46	06/12/25 21:00	1
13C5-PFPeA	86.7		40 - 130	06/11/25 06:46	06/12/25 21:00	1
13C5-PFHxA	89.2		40 - 130	06/11/25 06:46	06/12/25 21:00	1
13C4-PFHpA	87.9		40 - 130	06/11/25 06:46	06/12/25 21:00	1
13C8-PFOA	86.3		40 - 130	06/11/25 06:46	06/12/25 21:00	1
13C9-PFNA	88.8		40 - 130	06/11/25 06:46	06/12/25 21:00	1
13C6-PFDA	91.3		40 - 130	06/11/25 06:46	06/12/25 21:00	1
13C7-PFUnA	98.3		30 - 130	06/11/25 06:46	06/12/25 21:00	1
13C2-PFTeDA	84.3		10 - 130	06/11/25 06:46	06/12/25 21:00	1
13C3-PFBS	92.4		40 - 135	06/11/25 06:46	06/12/25 21:00	1
13C3-PFHxS	87.8		40 - 130	06/11/25 06:46	06/12/25 21:00	1
13C8-PFOS	88.8		40 - 130	06/11/25 06:46	06/12/25 21:00	1
13C8-PFOSA	76.0		40 - 130	06/11/25 06:46	06/12/25 21:00	1
d3-NMeFOSAA	84.9		40 - 170	06/11/25 06:46	06/12/25 21:00	1
d5-NEtFOSAA	70.8		25 - 135	06/11/25 06:46	06/12/25 21:00	1
13C2-4:2 FTS	101		40 - 200	06/11/25 06:46	06/12/25 21:00	1
13C2-6:2 FTS	95.1		40 - 200	06/11/25 06:46	06/12/25 21:00	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1640-52nd-03-Lawn

Lab Sample ID: 410-226305-8

Date Collected: 06/04/25 11:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-8:2 FTS	82.5		40 - 300	06/11/25 06:46	06/12/25 21:00	1
13C3-HFPO-DA	80.4		40 - 130	06/11/25 06:46	06/12/25 21:00	1
D7-NMeFOSE	72.6		10 - 130	06/11/25 06:46	06/12/25 21:00	1
D9-NEtFOSE	70.9		10 - 130	06/11/25 06:46	06/12/25 21:00	1
d5-NEtPFOSA	68.5		10 - 130	06/11/25 06:46	06/12/25 21:00	1
d3-NMePFOSA	73.1		10 - 130	06/11/25 06:46	06/12/25 21:00	1
13C2 PFDoA	96.0		10 - 130	06/11/25 06:46	06/12/25 21:00	1

Method: TAL SOP Total PFCA-Dif - Total PFCA (Treatment Difference)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	37				ng/L			07/03/25 10:24	1
Perfluorobutanoic acid (PFBA)	4.9				ng/L			07/03/25 10:24	1
Perfluoroheptanoic acid (PFHpA)	10				ng/L			07/03/25 10:24	1
Perfluorohexanoic acid (PFHxA)	6.8				ng/L			07/03/25 10:24	1
Perfluorononanoic acid (PFNA)	0.00				ng/L			07/03/25 10:24	1
Perfluorooctanoic acid (PFOA)	9.3				ng/L			07/03/25 10:24	1
Perfluoropentanoic acid (PFPA)	4.3				ng/L			07/03/25 10:24	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	30	J	500	0.20	ng/L			06/12/25 21:00	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	67	J	500	0.20	ng/L			06/20/25 17:42	1

Client Sample ID: 1640-52nd-03-House

Lab Sample ID: 410-226305-9

Date Collected: 06/04/25 10:50

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<5.5		20	5.5	ng/L		06/18/25 10:41	06/20/25 17:56	1
Perfluoropentanoic acid (PFPA)	<3.0		10	3.0	ng/L		06/18/25 10:41	06/20/25 17:56	1
Perfluorohexanoic acid (PFHxA)	8.7	J	10	2.5	ng/L		06/18/25 10:41	06/20/25 17:56	1
Perfluoroheptanoic acid (PFHpA)	13		10	4.0	ng/L		06/18/25 10:41	06/20/25 17:56	1
Perfluorooctanoic acid (PFOA)	14		10	4.5	ng/L		06/18/25 10:41	06/20/25 17:56	1
Perfluorononanoic acid (PFNA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:56	1
Perfluorodecanoic acid (PFDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:56	1
Perfluoroundecanoic acid (PFUnA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:56	1
Perfluorododecanoic acid (PFDoA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:56	1
Perfluorotridecanoic acid (PFTriDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:56	1
Perfluorotetradecanoic acid (PFTeDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:56	1
Perfluorobutanesulfonic acid (PFBS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:56	1
Perfluoropentanesulfonic acid (PFPeS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:56	1
Perfluorohexanesulfonic acid (PFHxS)	<4.0		10	4.0	ng/L		06/18/25 10:41	06/20/25 17:56	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:56	1
Perfluorooctanesulfonic acid (PFOS)	<6.5		10	6.5	ng/L		06/18/25 10:41	06/20/25 17:56	1
Perfluoronanesulfonic acid (PFNS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:56	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1640-52nd-03-House

Lab Sample ID: 410-226305-9

Date Collected: 06/04/25 10:50

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	<3.0		10	3.0	ng/L		06/18/25 10:41	06/20/25 17:56	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 17:56	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 17:56	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 17:56	1
Perfluorooctanesulfonamide (PFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:56	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:56	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:56	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:56	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<13		50	13	ng/L		06/18/25 10:41	06/20/25 17:56	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<20		50	20	ng/L		06/18/25 10:41	06/20/25 17:56	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<7.0		10	7.0	ng/L		06/18/25 10:41	06/20/25 17:56	1
4,8-Dioxo-3H-perfluorononanoic acid (DONA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:56	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:56	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:56	1
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:56	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:56	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:56	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:56	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 17:56	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<14		50	14	ng/L		06/18/25 10:41	06/20/25 17:56	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<13		50	13	ng/L		06/18/25 10:41	06/20/25 17:56	1
Perfluorodecanesulfonic acid (PFDS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 17:56	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	88.0		10 - 130	06/18/25 10:41	06/20/25 17:56	1
13C5-PFPeA	89.6		35 - 150	06/18/25 10:41	06/20/25 17:56	1
13C5-PFHxA	95.0		55 - 150	06/18/25 10:41	06/20/25 17:56	1
13C4-PFHpA	92.2		55 - 150	06/18/25 10:41	06/20/25 17:56	1
13C9-PFNA	86.7		55 - 140	06/18/25 10:41	06/20/25 17:56	1
13C6-PFDA	94.0		50 - 140	06/18/25 10:41	06/20/25 17:56	1
13C7-PFUnA	96.7		30 - 140	06/18/25 10:41	06/20/25 17:56	1
13C2 PFDoA	88.3		10 - 150	06/18/25 10:41	06/20/25 17:56	1
13C2-PFTeDA	79.1		10 - 130	06/18/25 10:41	06/20/25 17:56	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1640-52nd-03-House

Lab Sample ID: 410-226305-9

Date Collected: 06/04/25 10:50

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3-PFBS	96.5		55 - 150	06/18/25 10:41	06/20/25 17:56	1
13C3-PFHxS	92.7		55 - 150	06/18/25 10:41	06/20/25 17:56	1
13C8-PFOS	99.4		45 - 140	06/18/25 10:41	06/20/25 17:56	1
13C8-PFOSA	0.452		0 - 10	06/18/25 10:41	06/20/25 17:56	1
d3-NMeFOSAA	117		45 - 200	06/18/25 10:41	06/20/25 17:56	1
d5-NEtFOSAA	127		10 - 200	06/18/25 10:41	06/20/25 17:56	1
13C2-4:2 FTS	96.1		60 - 200	06/18/25 10:41	06/20/25 17:56	1
13C2-6:2 FTS	105		60 - 200	06/18/25 10:41	06/20/25 17:56	1
13C2-8:2 FTS	106		50 - 200	06/18/25 10:41	06/20/25 17:56	1
13C3-HFPO-DA	85.6		25 - 160	06/18/25 10:41	06/20/25 17:56	1
D7-NMeFOSE	70.9		10 - 150	06/18/25 10:41	06/20/25 17:56	1
D9-NEtFOSE	68.9		10 - 150	06/18/25 10:41	06/20/25 17:56	1
d5-NEtPFOSA	84.8		10 - 130	06/18/25 10:41	06/20/25 17:56	1
d3-NMePFOSA	87.2		15 - 130	06/18/25 10:41	06/20/25 17:56	1
13C2 PFOA	89.6		40 - 130	06/18/25 10:41	06/20/25 17:56	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	80		50 - 150	06/18/25 10:41	06/20/25 17:56	1
M3PFPeA	81		50 - 150	06/18/25 10:41	06/20/25 17:56	1

Method: EPA 1633_BLT - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.9	J	3.3	0.92	ng/L		07/01/25 14:27	07/02/25 12:35	1
Perfluoropentanoic acid (PFPeA)	<0.50		1.7	0.50	ng/L		07/01/25 14:27	07/02/25 12:35	1
Perfluorohexanoic acid (PFHxA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
Perfluoroheptanoic acid (PFHpA)	<0.67		1.7	0.67	ng/L		07/01/25 14:27	07/02/25 12:35	1
Perfluorodecanoic acid (PFDA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
Perfluoroundecanoic acid (PFUnA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
Perfluorododecanoic acid (PFDoA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
Perfluorotridecanoic acid (PFTrDA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
Perfluorotetradecanoic acid (PFTeDA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
Perfluorobutanesulfonic acid (PFBS)	0.46	J	1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
Perfluoropentanesulfonic acid (PFPeS)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
Perfluorononanesulfonic acid (PFNS)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
Perfluorodecanesulfonic acid (PFDS)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
Perfluorododecanesulfonic acid (PFDoS)	<0.50		1.7	0.50	ng/L		07/01/25 14:27	07/02/25 12:35	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.83		3.3	0.83	ng/L		07/01/25 14:27	07/02/25 12:35	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.83		3.3	0.83	ng/L		07/01/25 14:27	07/02/25 12:35	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.83		3.3	0.83	ng/L		07/01/25 14:27	07/02/25 12:35	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.2		1.7	1.2	ng/L		07/01/25 14:27	07/02/25 12:35	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1640-52nd-03-House

Lab Sample ID: 410-226305-9

Date Collected: 06/04/25 10:50

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9CI-PF3ONS)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11CI-PF3OUdS)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.83		3.3	0.83	ng/L		07/01/25 14:27	07/02/25 12:35	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.3		8.3	2.3	ng/L		07/01/25 14:27	07/02/25 12:35	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<2.1		8.3	2.1	ng/L		07/01/25 14:27	07/02/25 12:35	1
Br-Perfluorooctanoic acid (Br-PFOA)	<0.75		1.7	0.75	ng/L		07/01/25 14:27	07/02/25 12:35	1
L-Perfluorooctanoic acid (L-PFOA)	<0.75		1.7	0.75	ng/L		07/01/25 14:27	07/02/25 12:35	1
Total PFOA	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
Br-Perfluorononanoic acid (Br-PFNA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
L-Perfluorononanoic acid (L-PFNA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
Total PFNA	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	<0.67		1.7	0.67	ng/L		07/01/25 14:27	07/02/25 12:35	1
L-Perfluorohexanesulfonic acid (L-PFHxS)	<0.67		1.7	0.67	ng/L		07/01/25 14:27	07/02/25 12:35	1
Total PFHxS	<0.67		1.7	0.67	ng/L		07/01/25 14:27	07/02/25 12:35	1
Br-Perfluorooctanesulfonic acid (PFOS)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
L-Perfluorooctanesulfonic acid (PFOS)	<1.1		1.7	1.1	ng/L		07/01/25 14:27	07/02/25 12:35	1
Total PFOS	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
Br-N-methylperfluorooctanesulfonami doacetic acid (Br-NMeFOSAA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
L-N-methylperfluorooctanesulfonamid oacetic acid (L-NMeFOSAA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
Total NMeFOSAA	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
Br-N-ethylperfluorooctanesulfonamido acetic acid (Br-NEtFOSAA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
L-N-ethylperfluorooctanesulfonamido acetic acid (L-NEtFOSAA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
Total NEtFOSAA	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
Br-N-ethylperfluorooctane sulfonamide (Br-NEtFOSA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
L-N-ethylperfluorooctane sulfonamide (L-NEtFOSA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
Total NEtFOSA	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
Br-N-methylperfluorooctane sulfonamide (Br-NMeFOSA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
L-N-methylperfluorooctane sulfonamide (L-NMeFOSA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
Total NMeFOSA	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1640-52nd-03-House

Lab Sample ID: 410-226305-9

Date Collected: 06/04/25 10:50

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Br-Perfluorooctanesulfonamide (PFOSA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
L-Perfluorooctanesulfonamide (L-PFOSA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
Total PFOSA	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 12:35	1
Br-2-(N-ethylperfluoro-1-octanesulfonamido) ethanol (Br-NEtFOSE)	<2.1		8.3	2.1	ng/L		07/01/25 14:27	07/02/25 12:35	1
L-N-ethylperfluorooctane sulfonamidoethanol (L-NEtFOSE)	<3.3		8.3	3.3	ng/L		07/01/25 14:27	07/02/25 12:35	1
Total NEtFOSE	<2.1		8.3	2.1	ng/L		07/01/25 14:27	07/02/25 12:35	1
Br-2-(N-methylperfluoro-1-octanesulfonamido) ethanol (Br-NMeFOSE)	<2.1		8.3	2.1	ng/L		07/01/25 14:27	07/02/25 12:35	1
L-N-methylperfluorooctane sulfonamidoethanol (L-NMeFOSE)	<2.1		8.3	2.1	ng/L		07/01/25 14:27	07/02/25 12:35	1
Total NMeFOSE	<2.1		8.3	2.1	ng/L		07/01/25 14:27	07/02/25 12:35	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	108		5 - 130	07/01/25 14:27	07/02/25 12:35	1
13C5 PFPeA	116		40 - 130	07/01/25 14:27	07/02/25 12:35	1
13C5 PFHxA	109		40 - 130	07/01/25 14:27	07/02/25 12:35	1
13C4 PFHpA	106		40 - 130	07/01/25 14:27	07/02/25 12:35	1
13C8 PFOA	111		40 - 130	07/01/25 14:27	07/02/25 12:35	1
13C9 PFNA	109		40 - 130	07/01/25 14:27	07/02/25 12:35	1
13C6 PFDA	103		40 - 130	07/01/25 14:27	07/02/25 12:35	1
13C7 PFUnA	95		30 - 130	07/01/25 14:27	07/02/25 12:35	1
13C2 PFDoA	91		10 - 130	07/01/25 14:27	07/02/25 12:35	1
13C2 PFTeDA	79		10 - 130	07/01/25 14:27	07/02/25 12:35	1
13C3 PFBS	101		40 - 135	07/01/25 14:27	07/02/25 12:35	1
13C3 PFHxS	103		40 - 130	07/01/25 14:27	07/02/25 12:35	1
13C8 PFOS	102		40 - 130	07/01/25 14:27	07/02/25 12:35	1
13C8 FOSA	96		40 - 130	07/01/25 14:27	07/02/25 12:35	1
d3-NMeFOSAA	100		40 - 170	07/01/25 14:27	07/02/25 12:35	1
d5-NEtFOSAA	99		25 - 135	07/01/25 14:27	07/02/25 12:35	1
13C2 4:2 FTS	102		40 - 200	07/01/25 14:27	07/02/25 12:35	1
13C2 6:2 FTS	113		40 - 200	07/01/25 14:27	07/02/25 12:35	1
13C2 8:2 FTS	98		40 - 300	07/01/25 14:27	07/02/25 12:35	1
13C3 HFPO-DA	106		40 - 130	07/01/25 14:27	07/02/25 12:35	1
d7-N-MeFOSE-M	78		10 - 130	07/01/25 14:27	07/02/25 12:35	1
d9-N-EtFOSE-M	70		10 - 130	07/01/25 14:27	07/02/25 12:35	1
d5-NEtPFOSA	69		10 - 130	07/01/25 14:27	07/02/25 12:35	1
d3-NMePFOSA	66		10 - 130	07/01/25 14:27	07/02/25 12:35	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	3.4	J	3.5	0.96	ng/L		06/11/25 06:46	06/12/25 21:14	1
Perfluoropentanoic acid (PFPA)	<0.52		1.7	0.52	ng/L		06/11/25 06:46	06/12/25 21:14	1
Perfluorohexanoic acid (PFHxA)	<0.44		1.7	0.44	ng/L		06/11/25 06:46	06/12/25 21:14	1
Perfluoroheptanoic acid (PFHpA)	<0.70		1.7	0.70	ng/L		06/11/25 06:46	06/12/25 21:14	1
Perfluorooctanoic acid (PFOA)	<0.78		1.7	0.78	ng/L		06/11/25 06:46	06/12/25 21:14	1
Perfluorononanoic acid (PFNA)	<0.44		1.7	0.44	ng/L		06/11/25 06:46	06/12/25 21:14	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1640-52nd-03-House

Lab Sample ID: 410-226305-9

Date Collected: 06/04/25 10:50

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid (PFDA)	<0.44		1.7	0.44	ng/L		06/11/25 06:46	06/12/25 21:14	1
Perfluoroundecanoic acid (PFUnA)	<0.44		1.7	0.44	ng/L		06/11/25 06:46	06/12/25 21:14	1
Perfluorododecanoic acid (PFDoA)	<0.44		1.7	0.44	ng/L		06/11/25 06:46	06/12/25 21:14	1
Perfluorotridecanoic acid (PFTrDA)	<0.44		1.7	0.44	ng/L		06/11/25 06:46	06/12/25 21:14	1
Perfluorotetradecanoic acid (PFTeDA)	<0.44		1.7	0.44	ng/L		06/11/25 06:46	06/12/25 21:14	1
Perfluorobutanesulfonic acid (PFBS)	0.53	J	1.7	0.44	ng/L		06/11/25 06:46	06/12/25 21:14	1
Perfluoropentanesulfonic acid (PFPeS)	<0.44		1.7	0.44	ng/L		06/11/25 06:46	06/12/25 21:14	1
Perfluorohexanesulfonic acid (PFHxS)	<0.70		1.7	0.70	ng/L		06/11/25 06:46	06/12/25 21:14	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.44		1.7	0.44	ng/L		06/11/25 06:46	06/12/25 21:14	1
Perfluorooctanesulfonic acid (PFOS)	<1.1		1.7	1.1	ng/L		06/11/25 06:46	06/12/25 21:14	1
Perfluorononanesulfonic acid (PFNS)	<0.44		1.7	0.44	ng/L		06/11/25 06:46	06/12/25 21:14	1
Perfluorodecanesulfonic acid (PFDS)	<0.44		1.7	0.44	ng/L		06/11/25 06:46	06/12/25 21:14	1
Perfluorododecanesulfonic acid (PFDoS)	<0.52		1.7	0.52	ng/L		06/11/25 06:46	06/12/25 21:14	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.87		3.5	0.87	ng/L		06/11/25 06:46	06/12/25 21:14	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.87		3.5	0.87	ng/L		06/11/25 06:46	06/12/25 21:14	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.87		3.5	0.87	ng/L		06/11/25 06:46	06/12/25 21:14	1
Perfluorooctanesulfonamide (PFOSA)	<0.44		1.7	0.44	ng/L		06/11/25 06:46	06/12/25 21:14	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.44		1.7	0.44	ng/L		06/11/25 06:46	06/12/25 21:14	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<0.44		1.7	0.44	ng/L		06/11/25 06:46	06/12/25 21:14	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.44		1.7	0.44	ng/L		06/11/25 06:46	06/12/25 21:14	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.44		1.7	0.44	ng/L		06/11/25 06:46	06/12/25 21:14	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<2.2		8.7	2.2	ng/L		06/11/25 06:46	06/12/25 21:14	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<3.5		8.7	3.5	ng/L		06/11/25 06:46	06/12/25 21:14	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.2		1.7	1.2	ng/L		06/11/25 06:46	06/12/25 21:14	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<0.44		1.7	0.44	ng/L		06/11/25 06:46	06/12/25 21:14	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.44		1.7	0.44	ng/L		06/11/25 06:46	06/12/25 21:14	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.44		1.7	0.44	ng/L		06/11/25 06:46	06/12/25 21:14	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.44		1.7	0.44	ng/L		06/11/25 06:46	06/12/25 21:14	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	<0.44		1.7	0.44	ng/L		06/11/25 06:46	06/12/25 21:14	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	<0.44		1.7	0.44	ng/L		06/11/25 06:46	06/12/25 21:14	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.44		1.7	0.44	ng/L		06/11/25 06:46	06/12/25 21:14	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.87		3.5	0.87	ng/L		06/11/25 06:46	06/12/25 21:14	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1640-52nd-03-House

Lab Sample ID: 410-226305-9

Date Collected: 06/04/25 10:50

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.4		8.7	2.4	ng/L		06/11/25 06:46	06/12/25 21:14	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<2.2		8.7	2.2	ng/L		06/11/25 06:46	06/12/25 21:14	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	93.5		5 - 130				06/11/25 06:46	06/12/25 21:14	1
13C5-PFPeA	88.3		40 - 130				06/11/25 06:46	06/12/25 21:14	1
13C5-PFHxA	87.5		40 - 130				06/11/25 06:46	06/12/25 21:14	1
13C4-PFHpA	86.4		40 - 130				06/11/25 06:46	06/12/25 21:14	1
13C8-PFOA	92.6		40 - 130				06/11/25 06:46	06/12/25 21:14	1
13C9-PFNA	89.9		40 - 130				06/11/25 06:46	06/12/25 21:14	1
13C6-PFDA	96.4		40 - 130				06/11/25 06:46	06/12/25 21:14	1
13C7-PFUnA	102		30 - 130				06/11/25 06:46	06/12/25 21:14	1
13C2-PFTeDA	91.8		10 - 130				06/11/25 06:46	06/12/25 21:14	1
13C3-PFBS	92.9		40 - 135				06/11/25 06:46	06/12/25 21:14	1
13C3-PFHxS	90.0		40 - 130				06/11/25 06:46	06/12/25 21:14	1
13C8-PFOS	89.6		40 - 130				06/11/25 06:46	06/12/25 21:14	1
13C8-PFOSA	76.3		40 - 130				06/11/25 06:46	06/12/25 21:14	1
d3-NMeFOSAA	83.7		40 - 170				06/11/25 06:46	06/12/25 21:14	1
d5-NEtFOSAA	69.4		25 - 135				06/11/25 06:46	06/12/25 21:14	1
13C2-4:2 FTS	100		40 - 200				06/11/25 06:46	06/12/25 21:14	1
13C2-6:2 FTS	94.2		40 - 200				06/11/25 06:46	06/12/25 21:14	1
13C2-8:2 FTS	83.5		40 - 300				06/11/25 06:46	06/12/25 21:14	1
13C3-HFPO-DA	79.9		40 - 130				06/11/25 06:46	06/12/25 21:14	1
D7-NMeFOSE	76.4		10 - 130				06/11/25 06:46	06/12/25 21:14	1
D9-NEtFOSE	72.5		10 - 130				06/11/25 06:46	06/12/25 21:14	1
d5-NEtPFOSA	69.8		10 - 130				06/11/25 06:46	06/12/25 21:14	1
d3-NMePFOSA	73.1		10 - 130				06/11/25 06:46	06/12/25 21:14	1
13C2 PFDaA	96.4		10 - 130				06/11/25 06:46	06/12/25 21:14	1

Method: TAL SOP Total PFCA-Dif - Total PFCA (Treatment Difference)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	32				ng/L			07/03/25 10:24	1
Perfluorobutanoic acid (PFBA)	0.00				ng/L			07/03/25 10:24	1
Perfluoroheptanoic acid (PFHpA)	13				ng/L			07/03/25 10:24	1
Perfluorohexanoic acid (PFHxA)	8.7				ng/L			07/03/25 10:24	1
Perfluorononanoic acid (PFNA)	0.00				ng/L			07/03/25 10:24	1
Perfluorooctanoic acid (PFOA)	14				ng/L			07/03/25 10:24	1
Perfluoropentanoic acid (PFPA)	0.00				ng/L			07/03/25 10:24	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	3.4	J	500	0.20	ng/L			06/12/25 21:14	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	36	J	500	0.20	ng/L			06/20/25 17:56	1

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1833-52nd-04

Lab Sample ID: 410-226305-10

Date Collected: 06/04/25 11:10

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	9.8	J	20	5.4	ng/L		06/18/25 10:41	06/20/25 18:10	1
Perfluoropentanoic acid (PFPA)	<3.0		9.8	3.0	ng/L		06/18/25 10:41	06/20/25 18:10	1
Perfluorohexanoic acid (PFHxA)	7.4	J	9.8	2.5	ng/L		06/18/25 10:41	06/20/25 18:10	1
Perfluoroheptanoic acid (PFHpA)	11		9.8	3.9	ng/L		06/18/25 10:41	06/20/25 18:10	1
Perfluorooctanoic acid (PFOA)	13	I	9.8	4.4	ng/L		06/18/25 10:41	06/20/25 18:10	1
Perfluorononanoic acid (PFNA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 18:10	1
Perfluorodecanoic acid (PFDA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 18:10	1
Perfluoroundecanoic acid (PFUnA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 18:10	1
Perfluorododecanoic acid (PFDoA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 18:10	1
Perfluorotridecanoic acid (PFTrDA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 18:10	1
Perfluorotetradecanoic acid (PFTeDA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 18:10	1
Perfluorobutanesulfonic acid (PFBS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 18:10	1
Perfluoropentanesulfonic acid (PFPeS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 18:10	1
Perfluorohexanesulfonic acid (PFHxS)	<3.9		9.8	3.9	ng/L		06/18/25 10:41	06/20/25 18:10	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 18:10	1
Perfluorooctanesulfonic acid (PFOS)	<6.4		9.8	6.4	ng/L		06/18/25 10:41	06/20/25 18:10	1
Perfluorononanesulfonic acid (PFNS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 18:10	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		9.8	3.0	ng/L		06/18/25 10:41	06/20/25 18:10	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 18:10	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 18:10	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 18:10	1
Perfluorooctanesulfonamide (PFOSA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 18:10	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 18:10	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 18:10	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 18:10	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 18:10	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<12		49	12	ng/L		06/18/25 10:41	06/20/25 18:10	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<20		49	20	ng/L		06/18/25 10:41	06/20/25 18:10	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<6.9		9.8	6.9	ng/L		06/18/25 10:41	06/20/25 18:10	1
4,8-Dioxo-3H-perfluorononanoic acid (DONA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 18:10	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 18:10	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 18:10	1
Nonfluoro-3,6-dioxahexanoic acid (NFDHA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 18:10	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 18:10	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 18:10	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1833-52nd-04

Lab Sample ID: 410-226305-10

Date Collected: 06/04/25 11:10

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 18:10	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 18:10	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<14		49	14	ng/L		06/18/25 10:41	06/20/25 18:10	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<12		49	12	ng/L		06/18/25 10:41	06/20/25 18:10	1
Perfluorodecanesulfonic acid (PFDS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 18:10	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	67.2		10 - 130	06/18/25 10:41	06/20/25 18:10	1
13C5-PFPeA	70.6		35 - 150	06/18/25 10:41	06/20/25 18:10	1
13C5-PFHxA	72.1		55 - 150	06/18/25 10:41	06/20/25 18:10	1
13C4-PFHpA	71.5		55 - 150	06/18/25 10:41	06/20/25 18:10	1
13C9-PFNA	69.0		55 - 140	06/18/25 10:41	06/20/25 18:10	1
13C6-PFDA	71.1		50 - 140	06/18/25 10:41	06/20/25 18:10	1
13C7-PFUnA	71.9		30 - 140	06/18/25 10:41	06/20/25 18:10	1
13C2 PFDoA	63.4		10 - 150	06/18/25 10:41	06/20/25 18:10	1
13C2-PFTeDA	59.9		10 - 130	06/18/25 10:41	06/20/25 18:10	1
13C3-PFBS	70.6		55 - 150	06/18/25 10:41	06/20/25 18:10	1
13C3-PFHxS	70.1		55 - 150	06/18/25 10:41	06/20/25 18:10	1
13C8-PFOS	75.8		45 - 140	06/18/25 10:41	06/20/25 18:10	1
13C8-PFOSA	0.316		0 - 10	06/18/25 10:41	06/20/25 18:10	1
d3-NMeFOSAA	86.3		45 - 200	06/18/25 10:41	06/20/25 18:10	1
d5-NEtFOSAA	98.0		10 - 200	06/18/25 10:41	06/20/25 18:10	1
13C2-4:2 FTS	71.5		60 - 200	06/18/25 10:41	06/20/25 18:10	1
13C2-6:2 FTS	83.4		60 - 200	06/18/25 10:41	06/20/25 18:10	1
13C2-8:2 FTS	75.1		50 - 200	06/18/25 10:41	06/20/25 18:10	1
13C3-HFPO-DA	66.0		25 - 160	06/18/25 10:41	06/20/25 18:10	1
D7-NMeFOSE	66.3		10 - 150	06/18/25 10:41	06/20/25 18:10	1
D9-NEtFOSE	66.5		10 - 150	06/18/25 10:41	06/20/25 18:10	1
d5-NEtPFOSA	65.0		10 - 130	06/18/25 10:41	06/20/25 18:10	1
d3-NMePFOSA	69.6		15 - 130	06/18/25 10:41	06/20/25 18:10	1
13C2 PFOA	68.3		40 - 130	06/18/25 10:41	06/20/25 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	55		50 - 150	06/18/25 10:41	06/20/25 18:10	1
M3PFPeA	63		50 - 150	06/18/25 10:41	06/20/25 18:10	1

Method: EPA 1633_BLT - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.2		3.0	0.82	ng/L		07/01/25 14:27	07/02/25 12:48	1
Perfluoropentanoic acid (PFPeA)	<0.45		1.5	0.45	ng/L		07/01/25 14:27	07/02/25 12:48	1
Perfluorohexanoic acid (PFHxA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
Perfluoroheptanoic acid (PFHpA)	<0.60		1.5	0.60	ng/L		07/01/25 14:27	07/02/25 12:48	1
Perfluorodecanoic acid (PFDA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
Perfluoroundecanoic acid (PFUnA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
Perfluorododecanoic acid (PFDoA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
Perfluorotridecanoic acid (PFTTrDA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
Perfluorotetradecanoic acid (PFTeDA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1833-52nd-04

Lab Sample ID: 410-226305-10

Date Collected: 06/04/25 11:10

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	1.6		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
Perfluoropentanesulfonic acid (PFPeS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
Perfluorononanesulfonic acid (PFNS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
Perfluorodecanesulfonic acid (PFDS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
Perfluorododecanesulfonic acid (PFDoS)	<0.45		1.5	0.45	ng/L		07/01/25 14:27	07/02/25 12:48	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.75		3.0	0.75	ng/L		07/01/25 14:27	07/02/25 12:48	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.75		3.0	0.75	ng/L		07/01/25 14:27	07/02/25 12:48	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.75		3.0	0.75	ng/L		07/01/25 14:27	07/02/25 12:48	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.0		1.5	1.0	ng/L		07/01/25 14:27	07/02/25 12:48	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.75		3.0	0.75	ng/L		07/01/25 14:27	07/02/25 12:48	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.1		7.5	2.1	ng/L		07/01/25 14:27	07/02/25 12:48	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<1.9		7.5	1.9	ng/L		07/01/25 14:27	07/02/25 12:48	1
Br-Perfluorooctanoic acid (Br-PFOA)	<0.67		1.5	0.67	ng/L		07/01/25 14:27	07/02/25 12:48	1
L-Perfluorooctanoic acid (L-PFOA)	<0.67		1.5	0.67	ng/L		07/01/25 14:27	07/02/25 12:48	1
Total PFOA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
Br-Perfluorononanoic acid (Br-PFNA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
L-Perfluorononanoic acid (L-PFNA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
Total PFNA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	<0.60		1.5	0.60	ng/L		07/01/25 14:27	07/02/25 12:48	1
L-Perfluorohexanesulfonic acid (L-PFHxS)	<0.60		1.5	0.60	ng/L		07/01/25 14:27	07/02/25 12:48	1
Total PFHxS	<0.60		1.5	0.60	ng/L		07/01/25 14:27	07/02/25 12:48	1
Br-Perfluorooctanesulfonic acid (PFOS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
L-Perfluorooctanesulfonic acid (PFOS)	<0.97		1.5	0.97	ng/L		07/01/25 14:27	07/02/25 12:48	1
Total PFOS	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1833-52nd-04

Lab Sample ID: 410-226305-10

Date Collected: 06/04/25 11:10

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Br-N-methylperfluorooctanesulfonamidoacetic acid (Br-NMeFOSAA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
L-N-methylperfluorooctanesulfonamidoacetic acid (L-NMeFOSAA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
Total NMeFOSAA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid (Br-NEtFOSAA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
L-N-ethylperfluorooctanesulfonamidoacetic acid (L-NEtFOSAA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
Total NEtFOSAA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
Br-N-ethylperfluorooctane sulfonamide (Br-NEtFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
L-N-ethylperfluorooctane sulfonamide (L-NEtFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
Total NEtFOSA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
Br-N-methylperfluorooctane sulfonamide (Br-NMeFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
L-N-methylperfluorooctane sulfonamide (L-NMeFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
Total NMeFOSA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
Br-Perfluorooctanesulfonamide (PFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
L-Perfluorooctanesulfonamide (L-PFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
Total PFOSA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 12:48	1
Br-2-(N-ethylperfluoro-1-octanesulfonamido) ethanol (Br-NEtFOSE)	<1.9		7.5	1.9	ng/L		07/01/25 14:27	07/02/25 12:48	1
L-N-ethylperfluorooctane sulfonamidoethanol (L-NEtFOSE)	<3.0		7.5	3.0	ng/L		07/01/25 14:27	07/02/25 12:48	1
Total NEtFOSE	<1.9		7.5	1.9	ng/L		07/01/25 14:27	07/02/25 12:48	1
Br-2-(N-methylperfluoro-1-octanesulfonamido) ethanol (Br-NMeFOSE)	<1.9		7.5	1.9	ng/L		07/01/25 14:27	07/02/25 12:48	1
L-N-methylperfluorooctane sulfonamidoethanol (L-NMeFOSE)	<1.9		7.5	1.9	ng/L		07/01/25 14:27	07/02/25 12:48	1
Total NMeFOSE	<1.9		7.5	1.9	ng/L		07/01/25 14:27	07/02/25 12:48	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	106		5 - 130				07/01/25 14:27	07/02/25 12:48	1
13C5 PFPeA	106		40 - 130				07/01/25 14:27	07/02/25 12:48	1
13C5 PFHxA	107		40 - 130				07/01/25 14:27	07/02/25 12:48	1
13C4 PFHpA	101		40 - 130				07/01/25 14:27	07/02/25 12:48	1
13C8 PFOA	106		40 - 130				07/01/25 14:27	07/02/25 12:48	1
13C9 PFNA	106		40 - 130				07/01/25 14:27	07/02/25 12:48	1
13C6 PFDA	100		40 - 130				07/01/25 14:27	07/02/25 12:48	1
13C7 PFUnA	92		30 - 130				07/01/25 14:27	07/02/25 12:48	1
13C2 PFDoA	87		10 - 130				07/01/25 14:27	07/02/25 12:48	1
13C2 PFTeDA	79		10 - 130				07/01/25 14:27	07/02/25 12:48	1
13C3 PFBS	103		40 - 135				07/01/25 14:27	07/02/25 12:48	1
13C3 PFHxS	106		40 - 130				07/01/25 14:27	07/02/25 12:48	1
13C8 PFOS	99		40 - 130				07/01/25 14:27	07/02/25 12:48	1
13C8 FOSA	88		40 - 130				07/01/25 14:27	07/02/25 12:48	1
d3-NMeFOSAA	97		40 - 170				07/01/25 14:27	07/02/25 12:48	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1833-52nd-04

Lab Sample ID: 410-226305-10

Date Collected: 06/04/25 11:10

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	89		25 - 135	07/01/25 14:27	07/02/25 12:48	1
13C2 4:2 FTS	104		40 - 200	07/01/25 14:27	07/02/25 12:48	1
13C2 6:2 FTS	115		40 - 200	07/01/25 14:27	07/02/25 12:48	1
13C2 8:2 FTS	100		40 - 300	07/01/25 14:27	07/02/25 12:48	1
13C3 HFPO-DA	101		40 - 130	07/01/25 14:27	07/02/25 12:48	1
d7-N-MeFOSE-M	76		10 - 130	07/01/25 14:27	07/02/25 12:48	1
d9-N-EtFOSE-M	68		10 - 130	07/01/25 14:27	07/02/25 12:48	1
d5-NEtPFOSA	68		10 - 130	07/01/25 14:27	07/02/25 12:48	1
d3-NMePFOSA	70		10 - 130	07/01/25 14:27	07/02/25 12:48	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.1		3.1	0.84	ng/L		06/11/25 06:46	06/12/25 21:27	1
Perfluoropentanoic acid (PFPA)	<0.46		1.5	0.46	ng/L		06/11/25 06:46	06/12/25 21:27	1
Perfluorohexanoic acid (PFHxA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 21:27	1
Perfluoroheptanoic acid (PFHpA)	<0.61		1.5	0.61	ng/L		06/11/25 06:46	06/12/25 21:27	1
Perfluorooctanoic acid (PFOA)	<0.69		1.5	0.69	ng/L		06/11/25 06:46	06/12/25 21:27	1
Perfluorononanoic acid (PFNA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 21:27	1
Perfluorodecanoic acid (PFDA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 21:27	1
Perfluoroundecanoic acid (PFUnA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 21:27	1
Perfluorododecanoic acid (PFDoA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 21:27	1
Perfluorotridecanoic acid (PFTrDA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 21:27	1
Perfluorotetradecanoic acid (PFTeDA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 21:27	1
Perfluorobutanesulfonic acid (PFBS)	1.7		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 21:27	1
Perfluoropentanesulfonic acid (PFPeS)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 21:27	1
Perfluorohexanesulfonic acid (PFHxS)	<0.61		1.5	0.61	ng/L		06/11/25 06:46	06/12/25 21:27	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 21:27	1
Perfluorooctanesulfonic acid (PFOS)	<1.0		1.5	1.0	ng/L		06/11/25 06:46	06/12/25 21:27	1
Perfluorononanesulfonic acid (PFNS)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 21:27	1
Perfluorodecanesulfonic acid (PFDS)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 21:27	1
Perfluorododecanesulfonic acid (PFDoS)	<0.46		1.5	0.46	ng/L		06/11/25 06:46	06/12/25 21:27	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.77		3.1	0.77	ng/L		06/11/25 06:46	06/12/25 21:27	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.77		3.1	0.77	ng/L		06/11/25 06:46	06/12/25 21:27	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.77		3.1	0.77	ng/L		06/11/25 06:46	06/12/25 21:27	1
Perfluorooctanesulfonamide (PFOSA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 21:27	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 21:27	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 21:27	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 21:27	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 21:27	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<1.9		7.7	1.9	ng/L		06/11/25 06:46	06/12/25 21:27	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1833-52nd-04

Lab Sample ID: 410-226305-10

Date Collected: 06/04/25 11:10

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctane sulfonamidoethanol (NETFOSE)	<3.1		7.7	3.1	ng/L		06/11/25 06:46	06/12/25 21:27	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.1		1.5	1.1	ng/L		06/11/25 06:46	06/12/25 21:27	1
4,8-Dioxo-3H-perfluorononanoic acid (DONA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 21:27	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 21:27	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 21:27	1
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 21:27	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 21:27	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 21:27	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 21:27	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.77		3.1	0.77	ng/L		06/11/25 06:46	06/12/25 21:27	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.1		7.7	2.1	ng/L		06/11/25 06:46	06/12/25 21:27	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<1.9		7.7	1.9	ng/L		06/11/25 06:46	06/12/25 21:27	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	93.9		5 - 130	06/11/25 06:46	06/12/25 21:27	1
13C5-PFPeA	87.2		40 - 130	06/11/25 06:46	06/12/25 21:27	1
13C5-PFHxA	86.9		40 - 130	06/11/25 06:46	06/12/25 21:27	1
13C4-PFHpA	85.5		40 - 130	06/11/25 06:46	06/12/25 21:27	1
13C8-PFOA	89.0		40 - 130	06/11/25 06:46	06/12/25 21:27	1
13C9-PFNA	94.5		40 - 130	06/11/25 06:46	06/12/25 21:27	1
13C6-PFDA	85.9		40 - 130	06/11/25 06:46	06/12/25 21:27	1
13C7-PFUnA	100		30 - 130	06/11/25 06:46	06/12/25 21:27	1
13C2-PFTeDA	80.8		10 - 130	06/11/25 06:46	06/12/25 21:27	1
13C3-PFBS	94.0		40 - 135	06/11/25 06:46	06/12/25 21:27	1
13C3-PFHxS	90.6		40 - 130	06/11/25 06:46	06/12/25 21:27	1
13C8-PFOS	89.6		40 - 130	06/11/25 06:46	06/12/25 21:27	1
13C8-PFOSA	77.9		40 - 130	06/11/25 06:46	06/12/25 21:27	1
d3-NMeFOSAA	84.1		40 - 170	06/11/25 06:46	06/12/25 21:27	1
d5-NEtFOSAA	66.3		25 - 135	06/11/25 06:46	06/12/25 21:27	1
13C2-4:2 FTS	94.3		40 - 200	06/11/25 06:46	06/12/25 21:27	1
13C2-6:2 FTS	91.2		40 - 200	06/11/25 06:46	06/12/25 21:27	1
13C2-8:2 FTS	80.9		40 - 300	06/11/25 06:46	06/12/25 21:27	1
13C3-HFPO-DA	86.9		40 - 130	06/11/25 06:46	06/12/25 21:27	1
D7-NMeFOSE	76.7		10 - 130	06/11/25 06:46	06/12/25 21:27	1
D9-NEtFOSE	74.3		10 - 130	06/11/25 06:46	06/12/25 21:27	1
d5-NEtPFOSA	67.6		10 - 130	06/11/25 06:46	06/12/25 21:27	1
d3-NMePFOSA	72.2		10 - 130	06/11/25 06:46	06/12/25 21:27	1
13C2-PFDoA	90.6		10 - 130	06/11/25 06:46	06/12/25 21:27	1

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1833-52nd-04

Lab Sample ID: 410-226305-10

Date Collected: 06/04/25 11:10

Matrix: Water

Date Received: 06/07/25 10:35

Method: TAL SOP Total PFCA-Dif - Total PFCA (Treatment Difference)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	35				ng/L			07/03/25 10:24	1
Perfluorobutanoic acid (PFBA)	3.8				ng/L			07/03/25 10:24	1
Perfluoroheptanoic acid (PFHpA)	11				ng/L			07/03/25 10:24	1
Perfluorohexanoic acid (PFHxA)	7.4				ng/L			07/03/25 10:24	1
Perfluorononanoic acid (PFNA)	0.00				ng/L			07/03/25 10:24	1
Perfluorooctanoic acid (PFOA)	13				ng/L			07/03/25 10:24	1
Perfluoropentanoic acid (PFPA)	0.00				ng/L			07/03/25 10:24	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	6.1	J	500	0.20	ng/L			06/12/25 21:27	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	41	J	500	0.20	ng/L			06/20/25 18:10	1

Client Sample ID: 5321-County Rd-05

Lab Sample ID: 410-226305-11

Date Collected: 06/04/25 11:20

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	21		20	5.5	ng/L		06/18/25 10:41	06/20/25 18:50	1
Perfluoropentanoic acid (PFPA)	18		10	3.0	ng/L		06/18/25 10:41	06/20/25 18:50	1
Perfluorohexanoic acid (PFHxA)	21		10	2.5	ng/L		06/18/25 10:41	06/20/25 18:50	1
Perfluoroheptanoic acid (PFHpA)	31		10	4.0	ng/L		06/18/25 10:41	06/20/25 18:50	1
Perfluorooctanoic acid (PFOA)	58		10	4.5	ng/L		06/18/25 10:41	06/20/25 18:50	1
Perfluorononanoic acid (PFNA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 18:50	1
Perfluorodecanoic acid (PFDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 18:50	1
Perfluoroundecanoic acid (PFUnA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 18:50	1
Perfluorododecanoic acid (PFDoA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 18:50	1
Perfluorotridecanoic acid (PFTrDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 18:50	1
Perfluorotetradecanoic acid (PFTeDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 18:50	1
Perfluorobutanesulfonic acid (PFBS)	8.4	J	10	2.5	ng/L		06/18/25 10:41	06/20/25 18:50	1
Perfluoropentanesulfonic acid (PFPeS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 18:50	1
Perfluorohexanesulfonic acid (PFHxS)	11		10	4.0	ng/L		06/18/25 10:41	06/20/25 18:50	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 18:50	1
Perfluorooctanesulfonic acid (PFOS)	10		10	6.5	ng/L		06/18/25 10:41	06/20/25 18:50	1
Perfluorononanesulfonic acid (PFNS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 18:50	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		10	3.0	ng/L		06/18/25 10:41	06/20/25 18:50	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 18:50	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 18:50	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 18:50	1
Perfluorooctanesulfonamide (PFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 18:50	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 5321-County Rd-05

Lab Sample ID: 410-226305-11

Date Collected: 06/04/25 11:20

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctane sulfonamide (NMeFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 18:50	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 18:50	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 18:50	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 18:50	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<13		50	13	ng/L		06/18/25 10:41	06/20/25 18:50	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<20		50	20	ng/L		06/18/25 10:41	06/20/25 18:50	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<7.0		10	7.0	ng/L		06/18/25 10:41	06/20/25 18:50	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 18:50	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 18:50	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 18:50	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 18:50	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 18:50	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 18:50	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 18:50	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 18:50	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<14		50	14	ng/L		06/18/25 10:41	06/20/25 18:50	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<13		50	13	ng/L		06/18/25 10:41	06/20/25 18:50	1
Perfluorodecanesulfonic acid (PFDS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 18:50	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	87.0		10 - 130				06/18/25 10:41	06/20/25 18:50	1
13C5-PFPeA	86.0		35 - 150				06/18/25 10:41	06/20/25 18:50	1
13C5-PFHxA	92.5		55 - 150				06/18/25 10:41	06/20/25 18:50	1
13C4-PFHpA	86.5		55 - 150				06/18/25 10:41	06/20/25 18:50	1
13C9-PFNA	83.0		55 - 140				06/18/25 10:41	06/20/25 18:50	1
13C6-PFDA	87.3		50 - 140				06/18/25 10:41	06/20/25 18:50	1
13C7-PFUnA	81.8		30 - 140				06/18/25 10:41	06/20/25 18:50	1
13C2-PFDoA	75.7		10 - 150				06/18/25 10:41	06/20/25 18:50	1
13C2-PFTeDA	64.1		10 - 130				06/18/25 10:41	06/20/25 18:50	1
13C3-PFBS	85.9		55 - 150				06/18/25 10:41	06/20/25 18:50	1
13C3-PFHxS	85.2		55 - 150				06/18/25 10:41	06/20/25 18:50	1
13C8-PFOS	88.4		45 - 140				06/18/25 10:41	06/20/25 18:50	1
13C8-PFOSA	0.658		0 - 10				06/18/25 10:41	06/20/25 18:50	1
d3-NMeFOSAA	104		45 - 200				06/18/25 10:41	06/20/25 18:50	1
d5-NEtFOSAA	123		10 - 200				06/18/25 10:41	06/20/25 18:50	1
13C2-4:2 FTS	89.6		60 - 200				06/18/25 10:41	06/20/25 18:50	1
13C2-6:2 FTS	95.6		60 - 200				06/18/25 10:41	06/20/25 18:50	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 5321-County Rd-05

Lab Sample ID: 410-226305-11

Date Collected: 06/04/25 11:20

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-8:2 FTS	92.2		50 - 200	06/18/25 10:41	06/20/25 18:50	1
13C3-HFPO-DA	83.2		25 - 160	06/18/25 10:41	06/20/25 18:50	1
D7-NMeFOSE	51.0		10 - 150	06/18/25 10:41	06/20/25 18:50	1
D9-NEtFOSE	51.0		10 - 150	06/18/25 10:41	06/20/25 18:50	1
d5-NEtPFOSA	74.3		10 - 130	06/18/25 10:41	06/20/25 18:50	1
d3-NMePFOSA	80.1		15 - 130	06/18/25 10:41	06/20/25 18:50	1
13C2 PFOA	87.5		40 - 130	06/18/25 10:41	06/20/25 18:50	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	67		50 - 150	06/18/25 10:41	06/20/25 18:50	1
M3PFPeA	79		50 - 150	06/18/25 10:41	06/20/25 18:50	1

Method: EPA 1633_BLT - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	14		3.0	0.82	ng/L		07/01/25 14:27	07/02/25 13:29	1
Perfluoropentanoic acid (PFPeA)	10		1.5	0.45	ng/L		07/01/25 14:27	07/02/25 13:29	1
Perfluorohexanoic acid (PFHxA)	10		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Perfluoroheptanoic acid (PFHpA)	11		1.5	0.60	ng/L		07/01/25 14:27	07/02/25 13:29	1
Perfluorodecanoic acid (PFDA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Perfluoroundecanoic acid (PFUnA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Perfluorododecanoic acid (PFDoA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Perfluorotridecanoic acid (PFTriDA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Perfluorotetradecanoic acid (PFTeDA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Perfluorobutanesulfonic acid (PFBS)	7.6		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Perfluoropentanesulfonic acid (PFPeS)	0.65 J		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Perfluorononanesulfonic acid (PFNS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Perfluorodecanesulfonic acid (PFDS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Perfluorododecanesulfonic acid (PFDoS)	<0.45		1.5	0.45	ng/L		07/01/25 14:27	07/02/25 13:29	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.75		3.0	0.75	ng/L		07/01/25 14:27	07/02/25 13:29	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.75		3.0	0.75	ng/L		07/01/25 14:27	07/02/25 13:29	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.75		3.0	0.75	ng/L		07/01/25 14:27	07/02/25 13:29	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.0		1.5	1.0	ng/L		07/01/25 14:27	07/02/25 13:29	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 5321-County Rd-05

Lab Sample ID: 410-226305-11

Date Collected: 06/04/25 11:20

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.75		3.0	0.75	ng/L		07/01/25 14:27	07/02/25 13:29	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.1		7.5	2.1	ng/L		07/01/25 14:27	07/02/25 13:29	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<1.9		7.5	1.9	ng/L		07/01/25 14:27	07/02/25 13:29	1
Br-Perfluorooctanoic acid (Br-PFOA)	2.2		1.5	0.67	ng/L		07/01/25 14:27	07/02/25 13:29	1
L-Perfluorooctanoic acid (L-PFOA)	31		1.5	0.67	ng/L		07/01/25 14:27	07/02/25 13:29	1
Total PFOA	33		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Br-Perfluorononanoic acid (Br-PFNA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
L-Perfluorononanoic acid (L-PFNA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Total PFNA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	0.98 J		1.5	0.60	ng/L		07/01/25 14:27	07/02/25 13:29	1
L-Perfluorohexanesulfonic acid (L-PFHxS)	6.4		1.5	0.60	ng/L		07/01/25 14:27	07/02/25 13:29	1
Total PFHxS	7.4 cn		1.5	0.60	ng/L		07/01/25 14:27	07/02/25 13:29	1
Br-Perfluorooctanesulfonic acid (PFOS)	1.8		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
L-Perfluorooctanesulfonic acid (PFOS)	<0.97		1.5	0.97	ng/L		07/01/25 14:27	07/02/25 13:29	1
Total PFOS	2.3		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Br-N-methylperfluorooctanesulfonamidoacetic acid (Br-NMeFOSAA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
L-N-methylperfluorooctanesulfonamidoacetic acid (L-NMeFOSAA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Total NMeFOSAA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid (Br-NEtFOSAA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
L-N-ethylperfluorooctanesulfonamidoacetic acid (L-NEtFOSAA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Total NEtFOSAA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Br-N-ethylperfluorooctane sulfonamide (Br-NEtFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
L-N-ethylperfluorooctane sulfonamide (L-NEtFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Total NEtFOSA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Br-N-methylperfluorooctane sulfonamide (Br-NMeFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
L-N-methylperfluorooctane sulfonamide (L-NMeFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Total NMeFOSA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Br-Perfluorooctanesulfonamide (PFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
L-Perfluorooctanesulfonamide (L-PFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Total PFOSA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 13:29	1
Br-2-(N-ethylperfluoro-1-octanesulfonamido) ethanol (Br-NEtFOSE)	<1.9		7.5	1.9	ng/L		07/01/25 14:27	07/02/25 13:29	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 5321-County Rd-05

Lab Sample ID: 410-226305-11

Date Collected: 06/04/25 11:20

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
L-N-ethylperfluorooctane	<3.0		7.5	3.0	ng/L		07/01/25 14:27	07/02/25 13:29	1
sulfonamidoethanol (L-NEtFOSE)									
Total NEtFOSE	<1.9		7.5	1.9	ng/L		07/01/25 14:27	07/02/25 13:29	1
Br-2-(N-methylperfluoro-1-octanesulfonamido) ethanol (Br-NMeFOSE)	<1.9		7.5	1.9	ng/L		07/01/25 14:27	07/02/25 13:29	1
L-N-methylperfluorooctane sulfonamidoethanol (L-NMeFOSE)	<1.9		7.5	1.9	ng/L		07/01/25 14:27	07/02/25 13:29	1
Total NMeFOSE	<1.9		7.5	1.9	ng/L		07/01/25 14:27	07/02/25 13:29	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	107		5 - 130				07/01/25 14:27	07/02/25 13:29	1
13C5 PFPeA	112		40 - 130				07/01/25 14:27	07/02/25 13:29	1
13C5 PFHxA	109		40 - 130				07/01/25 14:27	07/02/25 13:29	1
13C4 PFHpA	99		40 - 130				07/01/25 14:27	07/02/25 13:29	1
13C8 PFOA	101		40 - 130				07/01/25 14:27	07/02/25 13:29	1
13C9 PFNA	103		40 - 130				07/01/25 14:27	07/02/25 13:29	1
13C6 PFDA	108		40 - 130				07/01/25 14:27	07/02/25 13:29	1
13C7 PFUnA	91		30 - 130				07/01/25 14:27	07/02/25 13:29	1
13C2 PFDoA	90		10 - 130				07/01/25 14:27	07/02/25 13:29	1
13C2 PFTeDA	85		10 - 130				07/01/25 14:27	07/02/25 13:29	1
13C3 PFBS	102		40 - 135				07/01/25 14:27	07/02/25 13:29	1
13C3 PFHxS	102		40 - 130				07/01/25 14:27	07/02/25 13:29	1
13C8 PFOS	107		40 - 130				07/01/25 14:27	07/02/25 13:29	1
13C8 FOSA	95		40 - 130				07/01/25 14:27	07/02/25 13:29	1
d3-NMeFOSAA	106		40 - 170				07/01/25 14:27	07/02/25 13:29	1
d5-NEtFOSAA	103		25 - 135				07/01/25 14:27	07/02/25 13:29	1
13C2 4:2 FTS	104		40 - 200				07/01/25 14:27	07/02/25 13:29	1
13C2 6:2 FTS	110		40 - 200				07/01/25 14:27	07/02/25 13:29	1
13C2 8:2 FTS	97		40 - 300				07/01/25 14:27	07/02/25 13:29	1
13C3 HFPO-DA	106		40 - 130				07/01/25 14:27	07/02/25 13:29	1
d7-N-MeFOSE-M	85		10 - 130				07/01/25 14:27	07/02/25 13:29	1
d9-N-EtFOSE-M	78		10 - 130				07/01/25 14:27	07/02/25 13:29	1
d5-NEtPFOSA	66		10 - 130				07/01/25 14:27	07/02/25 13:29	1
d3-NMePFOSA	68		10 - 130				07/01/25 14:27	07/02/25 13:29	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	16		3.0	0.83	ng/L		06/11/25 06:46	06/12/25 22:08	1
Perfluoropentanoic acid (PFPA)	11		1.5	0.45	ng/L		06/11/25 06:46	06/12/25 22:08	1
Perfluorohexanoic acid (PFHxA)	12		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 22:08	1
Perfluoroheptanoic acid (PFHpA)	13		1.5	0.61	ng/L		06/11/25 06:46	06/12/25 22:08	1
Perfluorooctanoic acid (PFOA)	41		1.5	0.68	ng/L		06/11/25 06:46	06/12/25 22:08	1
Perfluorononanoic acid (PFNA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 22:08	1
Perfluorodecanoic acid (PFDA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 22:08	1
Perfluoroundecanoic acid (PFUnA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 22:08	1
Perfluorododecanoic acid (PFDoA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 22:08	1
Perfluorotridecanoic acid (PFTeDA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 22:08	1
Perfluorotetradecanoic acid (PFTeDA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 22:08	1
Perfluorobutanesulfonic acid (PFBS)	8.3		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 22:08	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 5321-County Rd-05

Lab Sample ID: 410-226305-11

Date Collected: 06/04/25 11:20

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanesulfonic acid (PFPeS)	0.65	J	1.5	0.38	ng/L		06/11/25 06:46	06/12/25 22:08	1
Perfluorohexanesulfonic acid (PFHxS)	9.6		1.5	0.61	ng/L		06/11/25 06:46	06/12/25 22:08	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 22:08	1
Perfluorooctanesulfonic acid (PFOS)	1.8	I cn	1.5	0.98	ng/L		06/11/25 06:46	06/12/25 22:08	1
Perfluorononanesulfonic acid (PFNS)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 22:08	1
Perfluorodecanesulfonic acid (PFDS)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 22:08	1
Perfluorododecanesulfonic acid (PFDoS)	<0.45		1.5	0.45	ng/L		06/11/25 06:46	06/12/25 22:08	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.76		3.0	0.76	ng/L		06/11/25 06:46	06/12/25 22:08	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.76		3.0	0.76	ng/L		06/11/25 06:46	06/12/25 22:08	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.76		3.0	0.76	ng/L		06/11/25 06:46	06/12/25 22:08	1
Perfluorooctanesulfonamide (PFOSA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 22:08	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 22:08	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 22:08	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 22:08	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 22:08	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<1.9		7.6	1.9	ng/L		06/11/25 06:46	06/12/25 22:08	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<3.0		7.6	3.0	ng/L		06/11/25 06:46	06/12/25 22:08	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.1		1.5	1.1	ng/L		06/11/25 06:46	06/12/25 22:08	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 22:08	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 22:08	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 22:08	1
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 22:08	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 22:08	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 22:08	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.38		1.5	0.38	ng/L		06/11/25 06:46	06/12/25 22:08	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.76		3.0	0.76	ng/L		06/11/25 06:46	06/12/25 22:08	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.1		7.6	2.1	ng/L		06/11/25 06:46	06/12/25 22:08	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<1.9		7.6	1.9	ng/L		06/11/25 06:46	06/12/25 22:08	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	90.6		5 - 130				06/11/25 06:46	06/12/25 22:08	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 5321-County Rd-05

Lab Sample ID: 410-226305-11

Date Collected: 06/04/25 11:20

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5-PFPeA	87.4		40 - 130	06/11/25 06:46	06/12/25 22:08	1
13C5-PFHxA	86.3		40 - 130	06/11/25 06:46	06/12/25 22:08	1
13C4-PFHpA	85.5		40 - 130	06/11/25 06:46	06/12/25 22:08	1
13C8-PFOA	90.9		40 - 130	06/11/25 06:46	06/12/25 22:08	1
13C9-PFNA	89.9		40 - 130	06/11/25 06:46	06/12/25 22:08	1
13C6-PFDA	91.6		40 - 130	06/11/25 06:46	06/12/25 22:08	1
13C7-PFUnA	95.7		30 - 130	06/11/25 06:46	06/12/25 22:08	1
13C2-PFTeDA	90.0		10 - 130	06/11/25 06:46	06/12/25 22:08	1
13C3-PFBS	87.9		40 - 135	06/11/25 06:46	06/12/25 22:08	1
13C3-PFHxS	85.6		40 - 130	06/11/25 06:46	06/12/25 22:08	1
13C8-PFOS	88.3		40 - 130	06/11/25 06:46	06/12/25 22:08	1
13C8-PFOSA	76.8		40 - 130	06/11/25 06:46	06/12/25 22:08	1
d3-NMeFOSAA	84.1		40 - 170	06/11/25 06:46	06/12/25 22:08	1
d5-NEtFOSAA	73.1		25 - 135	06/11/25 06:46	06/12/25 22:08	1
13C2-4:2 FTS	96.1		40 - 200	06/11/25 06:46	06/12/25 22:08	1
13C2-6:2 FTS	89.9		40 - 200	06/11/25 06:46	06/12/25 22:08	1
13C2-8:2 FTS	78.0		40 - 300	06/11/25 06:46	06/12/25 22:08	1
13C3-HFPO-DA	78.3		40 - 130	06/11/25 06:46	06/12/25 22:08	1
D7-NMeFOSE	75.4		10 - 130	06/11/25 06:46	06/12/25 22:08	1
D9-NEtFOSE	68.7		10 - 130	06/11/25 06:46	06/12/25 22:08	1
d5-NEtPFOSA	69.7		10 - 130	06/11/25 06:46	06/12/25 22:08	1
d3-NMePFOSA	73.8		10 - 130	06/11/25 06:46	06/12/25 22:08	1
13C2 PFDaA	95.0		10 - 130	06/11/25 06:46	06/12/25 22:08	1

Method: TAL SOP Total PFCA-Dif - Total PFCA (Treatment Difference)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	56				ng/L			07/03/25 10:24	1
Perfluorobutanoic acid (PFBA)	5.4				ng/L			07/03/25 10:24	1
Perfluoroheptanoic acid (PFHpA)	18				ng/L			07/03/25 10:24	1
Perfluorohexanoic acid (PFHxA)	9.2				ng/L			07/03/25 10:24	1
Perfluorononanoic acid (PFNA)	0.00				ng/L			07/03/25 10:24	1
Perfluorooctanoic acid (PFOA)	17				ng/L			07/03/25 10:24	1
Perfluoropentanoic acid (PFPA)	7.1				ng/L			07/03/25 10:24	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	93	J	500	0.20	ng/L			06/12/25 22:08	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	150	J	500	0.20	ng/L			06/20/25 18:50	1

Client Sample ID: MW-8

Lab Sample ID: 410-226305-12

Date Collected: 06/03/25 16:15

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	26		20	5.5	ng/L		06/18/25 10:41	06/20/25 19:04	1
Perfluoropentanoic acid (PFPA)	25		10	3.0	ng/L		06/18/25 10:41	06/20/25 19:04	1
Perfluorohexanoic acid (PFHxA)	31		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:04	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-8

Lab Sample ID: 410-226305-12

Date Collected: 06/03/25 16:15

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	30		10	4.0	ng/L		06/18/25 10:41	06/20/25 19:04	1
Perfluorooctanoic acid (PFOA)	56		10	4.5	ng/L		06/18/25 10:41	06/20/25 19:04	1
Perfluorononanoic acid (PFNA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:04	1
Perfluorodecanoic acid (PFDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:04	1
Perfluoroundecanoic acid (PFUnA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:04	1
Perfluorododecanoic acid (PFDoA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:04	1
Perfluorotridecanoic acid (PFTrDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:04	1
Perfluorotetradecanoic acid (PFTeDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:04	1
Perfluorobutanesulfonic acid (PFBS)	19		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:04	1
Perfluoropentanesulfonic acid (PFPeS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:04	1
Perfluorohexanesulfonic acid (PFHxS)	8.5 J		10	4.0	ng/L		06/18/25 10:41	06/20/25 19:04	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:04	1
Perfluorooctanesulfonic acid (PFOS)	8.7 J		10	6.5	ng/L		06/18/25 10:41	06/20/25 19:04	1
Perfluorononanesulfonic acid (PFNS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:04	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		10	3.0	ng/L		06/18/25 10:41	06/20/25 19:04	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 19:04	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 19:04	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 19:04	1
Perfluorooctanesulfonamide (PFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:04	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:04	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:04	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<13		50	13	ng/L		06/18/25 10:41	06/20/25 19:04	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<20		50	20	ng/L		06/18/25 10:41	06/20/25 19:04	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<7.0		10	7.0	ng/L		06/18/25 10:41	06/20/25 19:04	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:04	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:04	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:04	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:04	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:04	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:04	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-8

Lab Sample ID: 410-226305-12

Date Collected: 06/03/25 16:15

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:04	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 19:04	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<14		50	14	ng/L		06/18/25 10:41	06/20/25 19:04	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<13		50	13	ng/L		06/18/25 10:41	06/20/25 19:04	1
Perfluorodecanesulfonic acid (PFDS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:04	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	74.9		10 - 130				06/18/25 10:41	06/20/25 19:04	1
13C5-PFPeA	78.5		35 - 150				06/18/25 10:41	06/20/25 19:04	1
13C5-PFHxA	80.9		55 - 150				06/18/25 10:41	06/20/25 19:04	1
13C4-PFHpA	77.1		55 - 150				06/18/25 10:41	06/20/25 19:04	1
13C9-PFNA	82.0		55 - 140				06/18/25 10:41	06/20/25 19:04	1
13C6-PFDA	84.3		50 - 140				06/18/25 10:41	06/20/25 19:04	1
13C7-PFUnA	77.3		30 - 140				06/18/25 10:41	06/20/25 19:04	1
13C2 PFDoA	70.9		10 - 150				06/18/25 10:41	06/20/25 19:04	1
13C2-PFTeDA	63.8		10 - 130				06/18/25 10:41	06/20/25 19:04	1
13C3-PFBS	76.0		55 - 150				06/18/25 10:41	06/20/25 19:04	1
13C3-PFHxS	76.9		55 - 150				06/18/25 10:41	06/20/25 19:04	1
13C8-PFOS	86.0		45 - 140				06/18/25 10:41	06/20/25 19:04	1
13C8-PFOSA	0.893		0 - 10				06/18/25 10:41	06/20/25 19:04	1
d3-NMeFOSAA	98.1		45 - 200				06/18/25 10:41	06/20/25 19:04	1
d5-NEtFOSAA	112		10 - 200				06/18/25 10:41	06/20/25 19:04	1
13C2-4:2 FTS	76.6		60 - 200				06/18/25 10:41	06/20/25 19:04	1
13C2-6:2 FTS	88.0		60 - 200				06/18/25 10:41	06/20/25 19:04	1
13C2-8:2 FTS	83.6		50 - 200				06/18/25 10:41	06/20/25 19:04	1
13C3-HFPO-DA	71.7		25 - 160				06/18/25 10:41	06/20/25 19:04	1
D7-NMeFOSE	59.0		10 - 150				06/18/25 10:41	06/20/25 19:04	1
D9-NEtFOSE	61.9		10 - 150				06/18/25 10:41	06/20/25 19:04	1
d5-NEtPFOSA	71.8		10 - 130				06/18/25 10:41	06/20/25 19:04	1
d3-NMePFOSA	77.4		15 - 130				06/18/25 10:41	06/20/25 19:04	1
13C2 PFOA	80.4		40 - 130				06/18/25 10:41	06/20/25 19:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFUnA	63		50 - 150				06/18/25 10:41	06/20/25 19:04	1
M3PFPeA	70		50 - 150				06/18/25 10:41	06/20/25 19:04	1

Method: EPA 1633_BLT - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	19		3.3	0.92	ng/L		07/01/25 14:27	07/02/25 13:43	1
Perfluoropentanoic acid (PFPeA)	20		1.7	0.50	ng/L		07/01/25 14:27	07/02/25 13:43	1
Perfluorohexanoic acid (PFHxA)	20		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Perfluoroheptanoic acid (PFHpA)	18		1.7	0.67	ng/L		07/01/25 14:27	07/02/25 13:43	1
Perfluorodecanoic acid (PFDA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Perfluoroundecanoic acid (PFUnA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Perfluorododecanoic acid (PFDoA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Perfluorotridecanoic acid (PFTTrDA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Perfluorotetradecanoic acid (PFTTeDA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-8

Lab Sample ID: 410-226305-12

Date Collected: 06/03/25 16:15

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	17		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Perfluoropentanesulfonic acid (PFPeS)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Perfluorononanesulfonic acid (PFNS)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Perfluorodecanesulfonic acid (PFDS)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Perfluorododecanesulfonic acid (PFDoS)	<0.50		1.7	0.50	ng/L		07/01/25 14:27	07/02/25 13:43	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.84		3.3	0.84	ng/L		07/01/25 14:27	07/02/25 13:43	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.84		3.3	0.84	ng/L		07/01/25 14:27	07/02/25 13:43	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.84		3.3	0.84	ng/L		07/01/25 14:27	07/02/25 13:43	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.2		1.7	1.2	ng/L		07/01/25 14:27	07/02/25 13:43	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
9-Chlorohexadecafluoro-3-oxanonane e-1-sulfonic acid (9Cl-PF3ONS)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
11-Chloroeicosafluoro-3-oxaundecane e-1-sulfonic acid (11Cl-PF3OUdS)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.84		3.3	0.84	ng/L		07/01/25 14:27	07/02/25 13:43	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.3		8.4	2.3	ng/L		07/01/25 14:27	07/02/25 13:43	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<2.1		8.4	2.1	ng/L		07/01/25 14:27	07/02/25 13:43	1
Br-Perfluorooctanoic acid (Br-PFOA)	4.1		1.7	0.75	ng/L		07/01/25 14:27	07/02/25 13:43	1
L-Perfluorooctanoic acid (L-PFOA)	34		1.7	0.75	ng/L		07/01/25 14:27	07/02/25 13:43	1
Total PFOA	38		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Br-Perfluorononanoic acid (Br-PFNA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
L-Perfluorononanoic acid (L-PFNA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Total PFNA	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	0.68 J		1.7	0.67	ng/L		07/01/25 14:27	07/02/25 13:43	1
L-Perfluorohexanesulfonic acid (L-PFHxS)	5.8		1.7	0.67	ng/L		07/01/25 14:27	07/02/25 13:43	1
Total PFHxS	6.5		1.7	0.67	ng/L		07/01/25 14:27	07/02/25 13:43	1
Br-Perfluorooctanesulfonic acid (PFOS)	1.8		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
L-Perfluorooctanesulfonic acid (PFOS)	9.3		1.7	1.1	ng/L		07/01/25 14:27	07/02/25 13:43	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-8

Lab Sample ID: 410-226305-12

Date Collected: 06/03/25 16:15

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFOS	11		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Br-N-methylperfluorooctanesulfonamidoacetic acid (Br-NMeFOSAA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
L-N-methylperfluorooctanesulfonamidoacetic acid (L-NMeFOSAA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Total NMeFOSAA	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid (Br-NEtFOSAA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
L-N-ethylperfluorooctanesulfonamidoacetic acid (L-NEtFOSAA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Total NEtFOSAA	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Br-N-ethylperfluorooctane sulfonamide (Br-NEtFOSA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
L-N-ethylperfluorooctane sulfonamide (L-NEtFOSA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Total NEtFOSA	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Br-N-methylperfluorooctane sulfonamide (Br-NMeFOSA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
L-N-methylperfluorooctane sulfonamide (L-NMeFOSA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Total NMeFOSA	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Br-Perfluorooctanesulfonamide (PFOSA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
L-Perfluorooctanesulfonamide (L-PFOSA)	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Total PFOSA	<0.42		1.7	0.42	ng/L		07/01/25 14:27	07/02/25 13:43	1
Br-2-(N-ethylperfluoro-1-octanesulfonamido) ethanol (Br-NEtFOSE)	<2.1		8.4	2.1	ng/L		07/01/25 14:27	07/02/25 13:43	1
L-N-ethylperfluorooctane sulfonamidoethanol (L-NEtFOSE)	<3.3		8.4	3.3	ng/L		07/01/25 14:27	07/02/25 13:43	1
Total NEtFOSE	<2.1		8.4	2.1	ng/L		07/01/25 14:27	07/02/25 13:43	1
Br-2-(N-methylperfluoro-1-octanesulfonamido) ethanol (Br-NMeFOSE)	<2.1		8.4	2.1	ng/L		07/01/25 14:27	07/02/25 13:43	1
L-N-methylperfluorooctane sulfonamidoethanol (L-NMeFOSE)	<2.1		8.4	2.1	ng/L		07/01/25 14:27	07/02/25 13:43	1
Total NMeFOSE	<2.1		8.4	2.1	ng/L		07/01/25 14:27	07/02/25 13:43	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	87		5 - 130				07/01/25 14:27	07/02/25 13:43	1
13C5 PFPeA	88		40 - 130				07/01/25 14:27	07/02/25 13:43	1
13C5 PFHxA	90		40 - 130				07/01/25 14:27	07/02/25 13:43	1
13C4 PFHpA	88		40 - 130				07/01/25 14:27	07/02/25 13:43	1
13C8 PFOA	88		40 - 130				07/01/25 14:27	07/02/25 13:43	1
13C9 PFNA	91		40 - 130				07/01/25 14:27	07/02/25 13:43	1
13C6 PFDA	88		40 - 130				07/01/25 14:27	07/02/25 13:43	1
13C7 PFUnA	86		30 - 130				07/01/25 14:27	07/02/25 13:43	1
13C2 PFDoA	84		10 - 130				07/01/25 14:27	07/02/25 13:43	1
13C2 PFTeDA	86		10 - 130				07/01/25 14:27	07/02/25 13:43	1
13C3 PFBS	89		40 - 135				07/01/25 14:27	07/02/25 13:43	1
13C3 PFHxS	85		40 - 130				07/01/25 14:27	07/02/25 13:43	1
13C8 PFOS	91		40 - 130				07/01/25 14:27	07/02/25 13:43	1
13C8 FOSA	79		40 - 130				07/01/25 14:27	07/02/25 13:43	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-8

Lab Sample ID: 410-226305-12

Date Collected: 06/03/25 16:15

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	87		40 - 170	07/01/25 14:27	07/02/25 13:43	1
d5-NEtFOSAA	89		25 - 135	07/01/25 14:27	07/02/25 13:43	1
13C2 4:2 FTS	89		40 - 200	07/01/25 14:27	07/02/25 13:43	1
13C2 6:2 FTS	94		40 - 200	07/01/25 14:27	07/02/25 13:43	1
13C2 8:2 FTS	84		40 - 300	07/01/25 14:27	07/02/25 13:43	1
13C3 HFPO-DA	93		40 - 130	07/01/25 14:27	07/02/25 13:43	1
d7-N-MeFOSE-M	78		10 - 130	07/01/25 14:27	07/02/25 13:43	1
d9-N-EtFOSE-M	75		10 - 130	07/01/25 14:27	07/02/25 13:43	1
d5-NEtPFOSA	65		10 - 130	07/01/25 14:27	07/02/25 13:43	1
d3-NMePFOSA	62		10 - 130	07/01/25 14:27	07/02/25 13:43	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	21		3.0	0.81	ng/L		06/11/25 06:46	06/12/25 22:22	1
Perfluoropentanoic acid (PFPA)	22		1.5	0.44	ng/L		06/11/25 06:46	06/12/25 22:22	1
Perfluorohexanoic acid (PFHxA)	24		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 22:22	1
Perfluoroheptanoic acid (PFHpA)	24		1.5	0.59	ng/L		06/11/25 06:46	06/12/25 22:22	1
Perfluorooctanoic acid (PFOA)	49		1.5	0.67	ng/L		06/11/25 06:46	06/12/25 22:22	1
Perfluorononanoic acid (PFNA)	0.47 J		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 22:22	1
Perfluorodecanoic acid (PFDA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 22:22	1
Perfluoroundecanoic acid (PFUnA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 22:22	1
Perfluorododecanoic acid (PFDoA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 22:22	1
Perfluorotridecanoic acid (PFTrDA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 22:22	1
Perfluorotetradecanoic acid (PFTeDA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 22:22	1
Perfluorobutanesulfonic acid (PFBS)	20		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 22:22	1
Perfluoropentanesulfonic acid (PFPeS)	0.59 J		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 22:22	1
Perfluorohexanesulfonic acid (PFHxS)	7.3		1.5	0.59	ng/L		06/11/25 06:46	06/12/25 22:22	1
Perfluoroheptanesulfonic acid (PFHpS)	0.38 J		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 22:22	1
Perfluorooctanesulfonic acid (PFOS)	3.5		1.5	0.96	ng/L		06/11/25 06:46	06/12/25 22:22	1
Perfluorononanesulfonic acid (PFNS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 22:22	1
Perfluorodecanesulfonic acid (PFDS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 22:22	1
Perfluorododecanesulfonic acid (PFDoS)	<0.44		1.5	0.44	ng/L		06/11/25 06:46	06/12/25 22:22	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.74		3.0	0.74	ng/L		06/11/25 06:46	06/12/25 22:22	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.74		3.0	0.74	ng/L		06/11/25 06:46	06/12/25 22:22	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.74		3.0	0.74	ng/L		06/11/25 06:46	06/12/25 22:22	1
Perfluorooctanesulfonamide (PFOSA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 22:22	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 22:22	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 22:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 22:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 22:22	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-8

Lab Sample ID: 410-226305-12

Date Collected: 06/03/25 16:15

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<1.8		7.4	1.8	ng/L		06/11/25 06:46	06/12/25 22:22	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<3.0		7.4	3.0	ng/L		06/11/25 06:46	06/12/25 22:22	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.0		1.5	1.0	ng/L		06/11/25 06:46	06/12/25 22:22	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 22:22	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 22:22	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 22:22	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 22:22	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 22:22	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 22:22	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 22:22	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.74		3.0	0.74	ng/L		06/11/25 06:46	06/12/25 22:22	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.1		7.4	2.1	ng/L		06/11/25 06:46	06/12/25 22:22	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<1.8		7.4	1.8	ng/L		06/11/25 06:46	06/12/25 22:22	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	93.8		5 - 130	06/11/25 06:46	06/12/25 22:22	1
13C5-PFPeA	91.0		40 - 130	06/11/25 06:46	06/12/25 22:22	1
13C5-PFHxA	89.5		40 - 130	06/11/25 06:46	06/12/25 22:22	1
13C4-PFHpA	87.3		40 - 130	06/11/25 06:46	06/12/25 22:22	1
13C8-PFOA	90.5		40 - 130	06/11/25 06:46	06/12/25 22:22	1
13C9-PFNA	90.7		40 - 130	06/11/25 06:46	06/12/25 22:22	1
13C6-PFDA	97.3		40 - 130	06/11/25 06:46	06/12/25 22:22	1
13C7-PFUnA	106		30 - 130	06/11/25 06:46	06/12/25 22:22	1
13C2-PFTeDA	90.1		10 - 130	06/11/25 06:46	06/12/25 22:22	1
13C3-PFBS	91.4		40 - 135	06/11/25 06:46	06/12/25 22:22	1
13C3-PFHxS	88.4		40 - 130	06/11/25 06:46	06/12/25 22:22	1
13C8-PFOS	89.5		40 - 130	06/11/25 06:46	06/12/25 22:22	1
13C8-PFOSA	83.7		40 - 130	06/11/25 06:46	06/12/25 22:22	1
d3-NMeFOSAA	90.3		40 - 170	06/11/25 06:46	06/12/25 22:22	1
d5-NEtFOSAA	92.4		25 - 135	06/11/25 06:46	06/12/25 22:22	1
13C2-4:2 FTS	101		40 - 200	06/11/25 06:46	06/12/25 22:22	1
13C2-6:2 FTS	93.1		40 - 200	06/11/25 06:46	06/12/25 22:22	1
13C2-8:2 FTS	81.2		40 - 300	06/11/25 06:46	06/12/25 22:22	1
13C3-HFPO-DA	80.1		40 - 130	06/11/25 06:46	06/12/25 22:22	1
D7-NMeFOSE	79.0		10 - 130	06/11/25 06:46	06/12/25 22:22	1
D9-NEtFOSE	76.3		10 - 130	06/11/25 06:46	06/12/25 22:22	1
d5-NEtPFOSA	74.0		10 - 130	06/11/25 06:46	06/12/25 22:22	1
d3-NMePFOSA	77.9		10 - 130	06/11/25 06:46	06/12/25 22:22	1
13C2 PFDoA	103		10 - 130	06/11/25 06:46	06/12/25 22:22	1

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-8

Lab Sample ID: 410-226305-12

Date Collected: 06/03/25 16:15

Matrix: Water

Date Received: 06/07/25 10:35

Method: ELLE - Lancaster ELLE SOP - Total or Organic Fluorine by Combustion Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Adsorbable Organic Fluorine (AOF)	6.2		2.0	1.2	ug/L		06/26/25 11:00	06/26/25 22:26	1

Method: TAL SOP Total PFCA-Dif - Total PFCA (Treatment Difference)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	28				ng/L			07/03/25 10:24	1
Perfluorobutanoic acid (PFBA)	4.8				ng/L			07/03/25 10:24	1
Perfluoroheptanoic acid (PFHpA)	5.4				ng/L			07/03/25 10:24	1
Perfluorohexanoic acid (PFHxA)	6.6				ng/L			07/03/25 10:24	1
Perfluorononanoic acid (PFNA)	0.00				ng/L			07/03/25 10:24	1
Perfluorooctanoic acid (PFOA)	7.5				ng/L			07/03/25 10:24	1
Perfluoropentanoic acid (PFPA)	2.7				ng/L			07/03/25 10:24	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	140	J	500	0.20	ng/L			06/12/25 22:22	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	170	J	500	0.20	ng/L			06/20/25 19:04	1

Client Sample ID: DUP-1

Lab Sample ID: 410-226305-13

Date Collected: 06/03/25 00:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	25		20	5.4	ng/L		06/18/25 10:41	06/20/25 19:17	1
Perfluoropentanoic acid (PFPA)	26		9.8	2.9	ng/L		06/18/25 10:41	06/20/25 19:17	1
Perfluorohexanoic acid (PFHxA)	29		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:17	1
Perfluoroheptanoic acid (PFHpA)	29		9.8	3.9	ng/L		06/18/25 10:41	06/20/25 19:17	1
Perfluorooctanoic acid (PFOA)	59		9.8	4.4	ng/L		06/18/25 10:41	06/20/25 19:17	1
Perfluorononanoic acid (PFNA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:17	1
Perfluorodecanoic acid (PFDA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:17	1
Perfluoroundecanoic acid (PFUnA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:17	1
Perfluorododecanoic acid (PFDoA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:17	1
Perfluorotridecanoic acid (PFTrDA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:17	1
Perfluorotetradecanoic acid (PFTeDA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:17	1
Perfluorobutanesulfonic acid (PFBS)	18		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:17	1
Perfluoropentanesulfonic acid (PFPeS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:17	1
Perfluorohexanesulfonic acid (PFHxS)	8.4	J	9.8	3.9	ng/L		06/18/25 10:41	06/20/25 19:17	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:17	1
Perfluorooctanesulfonic acid (PFOS)	<6.4		9.8	6.4	ng/L		06/18/25 10:41	06/20/25 19:17	1
Perfluorononanesulfonic acid (PFNS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:17	1
Perfluorododecanesulfonic acid (PFDoS)	<2.9		9.8	2.9	ng/L		06/18/25 10:41	06/20/25 19:17	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 19:17	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: DUP-1

Lab Sample ID: 410-226305-13

Date Collected: 06/03/25 00:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 19:17	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 19:17	1
Perfluorooctanesulfonamide (PFOSA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:17	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:17	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:17	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:17	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:17	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<12		49	12	ng/L		06/18/25 10:41	06/20/25 19:17	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<20		49	20	ng/L		06/18/25 10:41	06/20/25 19:17	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<6.9		9.8	6.9	ng/L		06/18/25 10:41	06/20/25 19:17	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:17	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:17	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:17	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:17	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:17	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:17	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:17	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 19:17	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<14		49	14	ng/L		06/18/25 10:41	06/20/25 19:17	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<12		49	12	ng/L		06/18/25 10:41	06/20/25 19:17	1
Perfluorodecanesulfonic acid (PFDS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:17	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	77.8		10 - 130				06/18/25 10:41	06/20/25 19:17	1
13C5-PFPeA	78.5		35 - 150				06/18/25 10:41	06/20/25 19:17	1
13C5-PFHxA	79.1		55 - 150				06/18/25 10:41	06/20/25 19:17	1
13C4-PFHpA	76.9		55 - 150				06/18/25 10:41	06/20/25 19:17	1
13C9-PFNA	73.0		55 - 140				06/18/25 10:41	06/20/25 19:17	1
13C6-PFDA	70.9		50 - 140				06/18/25 10:41	06/20/25 19:17	1
13C7-PFUnA	70.1		30 - 140				06/18/25 10:41	06/20/25 19:17	1
13C2-PFDoA	66.0		10 - 150				06/18/25 10:41	06/20/25 19:17	1
13C2-PFTeDA	63.9		10 - 130				06/18/25 10:41	06/20/25 19:17	1
13C3-PFBS	74.5		55 - 150				06/18/25 10:41	06/20/25 19:17	1
13C3-PFHxS	72.3		55 - 150				06/18/25 10:41	06/20/25 19:17	1
13C8-PFOS	80.9		45 - 140				06/18/25 10:41	06/20/25 19:17	1
13C8-PFOSA	0.984		0 - 10				06/18/25 10:41	06/20/25 19:17	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: DUP-1

Lab Sample ID: 410-226305-13

Date Collected: 06/03/25 00:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	93.3		45 - 200	06/18/25 10:41	06/20/25 19:17	1
d5-NEtFOSAA	107		10 - 200	06/18/25 10:41	06/20/25 19:17	1
13C2-4:2 FTS	77.1		60 - 200	06/18/25 10:41	06/20/25 19:17	1
13C2-6:2 FTS	82.1		60 - 200	06/18/25 10:41	06/20/25 19:17	1
13C2-8:2 FTS	79.1		50 - 200	06/18/25 10:41	06/20/25 19:17	1
13C3-HFPO-DA	72.4		25 - 160	06/18/25 10:41	06/20/25 19:17	1
D7-NMeFOSE	67.6		10 - 150	06/18/25 10:41	06/20/25 19:17	1
D9-NEtFOSE	65.6		10 - 150	06/18/25 10:41	06/20/25 19:17	1
d5-NEtPFOSA	67.6		10 - 130	06/18/25 10:41	06/20/25 19:17	1
d3-NMePFOSA	72.3		15 - 130	06/18/25 10:41	06/20/25 19:17	1
13C2 PFOA	73.7		40 - 130	06/18/25 10:41	06/20/25 19:17	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	57		50 - 150	06/18/25 10:41	06/20/25 19:17	1
M3PFPeA	71		50 - 150	06/18/25 10:41	06/20/25 19:17	1

Method: EPA 1633_BLT - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	20		3.2	0.87	ng/L		07/01/25 14:27	07/02/25 13:56	1
Perfluoropentanoic acid (PFPeA)	19		1.6	0.47	ng/L		07/01/25 14:27	07/02/25 13:56	1
Perfluorohexanoic acid (PFHxA)	21		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Perfluoroheptanoic acid (PFHpA)	19		1.6	0.63	ng/L		07/01/25 14:27	07/02/25 13:56	1
Perfluorodecanoic acid (PFDA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Perfluoroundecanoic acid (PFUnA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Perfluorododecanoic acid (PFDoA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Perfluorotridecanoic acid (PFTrDA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Perfluorotetradecanoic acid (PFTeDA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Perfluorobutanesulfonic acid (PFBS)	17		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Perfluoropentanesulfonic acid (PFPeS)	0.54 J		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Perfluorononanesulfonic acid (PFNS)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Perfluorodecanesulfonic acid (PFDS)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Perfluorododecanesulfonic acid (PFDoS)	<0.47		1.6	0.47	ng/L		07/01/25 14:27	07/02/25 13:56	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.79		3.2	0.79	ng/L		07/01/25 14:27	07/02/25 13:56	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.79		3.2	0.79	ng/L		07/01/25 14:27	07/02/25 13:56	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.79		3.2	0.79	ng/L		07/01/25 14:27	07/02/25 13:56	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.1		1.6	1.1	ng/L		07/01/25 14:27	07/02/25 13:56	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: DUP-1

Lab Sample ID: 410-226305-13

Date Collected: 06/03/25 00:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.79		3.2	0.79	ng/L		07/01/25 14:27	07/02/25 13:56	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.2		7.9	2.2	ng/L		07/01/25 14:27	07/02/25 13:56	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<2.0		7.9	2.0	ng/L		07/01/25 14:27	07/02/25 13:56	1
Br-Perfluorooctanoic acid (Br-PFOA)	3.8		1.6	0.71	ng/L		07/01/25 14:27	07/02/25 13:56	1
L-Perfluorooctanoic acid (L-PFOA)	34		1.6	0.71	ng/L		07/01/25 14:27	07/02/25 13:56	1
Total PFOA	38		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Br-Perfluorononanoic acid (Br-PFNA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
L-Perfluorononanoic acid (L-PFNA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Total PFNA	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	0.78 J		1.6	0.63	ng/L		07/01/25 14:27	07/02/25 13:56	1
L-Perfluorohexanesulfonic acid (L-PFHxS)	5.3		1.6	0.63	ng/L		07/01/25 14:27	07/02/25 13:56	1
Total PFHxS	6.1		1.6	0.63	ng/L		07/01/25 14:27	07/02/25 13:56	1
Br-Perfluorooctanesulfonic acid (PFOS)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
L-Perfluorooctanesulfonic acid (PFOS)	<1.0		1.6	1.0	ng/L		07/01/25 14:27	07/02/25 13:56	1
Total PFOS	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Br-N-methylperfluorooctanesulfonami doacetic acid (Br-NMeFOSAA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
L-N-methylperfluorooctanesulfonamid oacetic acid (L-NMeFOSAA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Total NMeFOSAA	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Br-N-ethylperfluorooctanesulfonamido acetic acid (Br-NEtFOSAA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
L-N-ethylperfluorooctanesulfonamido acetic acid (L-NEtFOSAA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Total NEtFOSAA	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Br-N-ethylperfluorooctane sulfonamide (Br-NEtFOSA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
L-N-ethylperfluorooctane sulfonamide (L-NEtFOSA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Total NEtFOSA	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Br-N-methylperfluorooctane sulfonamide (Br-NMeFOSA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
L-N-methylperfluorooctane sulfonamide (L-NMeFOSA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Total NMeFOSA	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Br-Perfluorooctanesulfonamide (PFOSA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
L-Perfluorooctanesulfonamide (L-PFOSA)	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1
Total PFOSA	<0.39		1.6	0.39	ng/L		07/01/25 14:27	07/02/25 13:56	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: DUP-1

Lab Sample ID: 410-226305-13

Date Collected: 06/03/25 00:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Br-2- (N-ethylperfluoro-1-octanesulfonamid o) ethanol (Br-NEtFOSE)	<2.0		7.9	2.0	ng/L		07/01/25 14:27	07/02/25 13:56	1
L-N-ethylperfluorooctane sulfonamidoethanol (L-NEtFOSE)	<3.2		7.9	3.2	ng/L		07/01/25 14:27	07/02/25 13:56	1
Total NEtFOSE	<2.0		7.9	2.0	ng/L		07/01/25 14:27	07/02/25 13:56	1
Br-2- (N-methylperfluoro-1-octanesulfonami do) ethanol (Br-NMeFOSE)	<2.0		7.9	2.0	ng/L		07/01/25 14:27	07/02/25 13:56	1
L-N-methylperfluorooctane sulfonamidoethanol (L-NMeFOSE)	<2.0		7.9	2.0	ng/L		07/01/25 14:27	07/02/25 13:56	1
Total NMeFOSE	<2.0		7.9	2.0	ng/L		07/01/25 14:27	07/02/25 13:56	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	85		5 - 130				07/01/25 14:27	07/02/25 13:56	1
13C5 PFPeA	90		40 - 130				07/01/25 14:27	07/02/25 13:56	1
13C5 PFHxA	92		40 - 130				07/01/25 14:27	07/02/25 13:56	1
13C4 PFHpA	91		40 - 130				07/01/25 14:27	07/02/25 13:56	1
13C8 PFOA	94		40 - 130				07/01/25 14:27	07/02/25 13:56	1
13C9 PFNA	97		40 - 130				07/01/25 14:27	07/02/25 13:56	1
13C6 PFDA	90		40 - 130				07/01/25 14:27	07/02/25 13:56	1
13C7 PFUnA	83		30 - 130				07/01/25 14:27	07/02/25 13:56	1
13C2 PFDoA	79		10 - 130				07/01/25 14:27	07/02/25 13:56	1
13C2 PFTeDA	77		10 - 130				07/01/25 14:27	07/02/25 13:56	1
13C3 PFBS	86		40 - 135				07/01/25 14:27	07/02/25 13:56	1
13C3 PFHxS	94		40 - 130				07/01/25 14:27	07/02/25 13:56	1
13C8 PFOS	97		40 - 130				07/01/25 14:27	07/02/25 13:56	1
13C8 FOSA	85		40 - 130				07/01/25 14:27	07/02/25 13:56	1
d3-NMeFOSAA	91		40 - 170				07/01/25 14:27	07/02/25 13:56	1
d5-NEtFOSAA	87		25 - 135				07/01/25 14:27	07/02/25 13:56	1
13C2 4:2 FTS	89		40 - 200				07/01/25 14:27	07/02/25 13:56	1
13C2 6:2 FTS	104		40 - 200				07/01/25 14:27	07/02/25 13:56	1
13C2 8:2 FTS	90		40 - 300				07/01/25 14:27	07/02/25 13:56	1
13C3 HFPO-DA	91		40 - 130				07/01/25 14:27	07/02/25 13:56	1
d7-N-MeFOSE-M	65		10 - 130				07/01/25 14:27	07/02/25 13:56	1
d9-N-EtFOSE-M	62		10 - 130				07/01/25 14:27	07/02/25 13:56	1
d5-NEtPFOSA	63		10 - 130				07/01/25 14:27	07/02/25 13:56	1
d3-NMePFOSA	62		10 - 130				07/01/25 14:27	07/02/25 13:56	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	21		3.2	0.89	ng/L		06/11/25 06:46	06/12/25 22:35	1
Perfluoropentanoic acid (PFPA)	22		1.6	0.49	ng/L		06/11/25 06:46	06/12/25 22:35	1
Perfluorohexanoic acid (PFHxA)	25		1.6	0.41	ng/L		06/11/25 06:46	06/12/25 22:35	1
Perfluoroheptanoic acid (PFHpA)	24		1.6	0.65	ng/L		06/11/25 06:46	06/12/25 22:35	1
Perfluorooctanoic acid (PFOA)	52		1.6	0.73	ng/L		06/11/25 06:46	06/12/25 22:35	1
Perfluorononanoic acid (PFNA)	<0.41		1.6	0.41	ng/L		06/11/25 06:46	06/12/25 22:35	1
Perfluorodecanoic acid (PFDA)	<0.41		1.6	0.41	ng/L		06/11/25 06:46	06/12/25 22:35	1
Perfluoroundecanoic acid (PFUnA)	<0.41		1.6	0.41	ng/L		06/11/25 06:46	06/12/25 22:35	1
Perfluorododecanoic acid (PFDoA)	<0.41		1.6	0.41	ng/L		06/11/25 06:46	06/12/25 22:35	1
Perfluorotridecanoic acid (PFTrDA)	<0.41		1.6	0.41	ng/L		06/11/25 06:46	06/12/25 22:35	1
Perfluorotetradecanoic acid (PFTeDA)	<0.41		1.6	0.41	ng/L		06/11/25 06:46	06/12/25 22:35	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: DUP-1

Lab Sample ID: 410-226305-13

Date Collected: 06/03/25 00:00

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	19		1.6	0.41	ng/L		06/11/25 06:46	06/12/25 22:35	1
Perfluoropentanesulfonic acid (PFPeS)	0.43	J	1.6	0.41	ng/L		06/11/25 06:46	06/12/25 22:35	1
Perfluorohexanesulfonic acid (PFHxS)	6.8		1.6	0.65	ng/L		06/11/25 06:46	06/12/25 22:35	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.41		1.6	0.41	ng/L		06/11/25 06:46	06/12/25 22:35	1
Perfluorooctanesulfonic acid (PFOS)	<1.1		1.6	1.1	ng/L		06/11/25 06:46	06/12/25 22:35	1
Perfluorononanesulfonic acid (PFNS)	<0.41		1.6	0.41	ng/L		06/11/25 06:46	06/12/25 22:35	1
Perfluorodecanesulfonic acid (PFDS)	<0.41		1.6	0.41	ng/L		06/11/25 06:46	06/12/25 22:35	1
Perfluorododecanesulfonic acid (PFDoS)	<0.49		1.6	0.49	ng/L		06/11/25 06:46	06/12/25 22:35	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.81		3.2	0.81	ng/L		06/11/25 06:46	06/12/25 22:35	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.81		3.2	0.81	ng/L		06/11/25 06:46	06/12/25 22:35	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.81		3.2	0.81	ng/L		06/11/25 06:46	06/12/25 22:35	1
Perfluorooctanesulfonamide (PFOSA)	<0.41		1.6	0.41	ng/L		06/11/25 06:46	06/12/25 22:35	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.41		1.6	0.41	ng/L		06/11/25 06:46	06/12/25 22:35	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<0.41		1.6	0.41	ng/L		06/11/25 06:46	06/12/25 22:35	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.41		1.6	0.41	ng/L		06/11/25 06:46	06/12/25 22:35	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.41		1.6	0.41	ng/L		06/11/25 06:46	06/12/25 22:35	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<2.0		8.1	2.0	ng/L		06/11/25 06:46	06/12/25 22:35	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<3.2		8.1	3.2	ng/L		06/11/25 06:46	06/12/25 22:35	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.1		1.6	1.1	ng/L		06/11/25 06:46	06/12/25 22:35	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<0.41		1.6	0.41	ng/L		06/11/25 06:46	06/12/25 22:35	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.41		1.6	0.41	ng/L		06/11/25 06:46	06/12/25 22:35	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.41		1.6	0.41	ng/L		06/11/25 06:46	06/12/25 22:35	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.41		1.6	0.41	ng/L		06/11/25 06:46	06/12/25 22:35	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.41		1.6	0.41	ng/L		06/11/25 06:46	06/12/25 22:35	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.41		1.6	0.41	ng/L		06/11/25 06:46	06/12/25 22:35	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.41		1.6	0.41	ng/L		06/11/25 06:46	06/12/25 22:35	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.81		3.2	0.81	ng/L		06/11/25 06:46	06/12/25 22:35	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.3		8.1	2.3	ng/L		06/11/25 06:46	06/12/25 22:35	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<2.0		8.1	2.0	ng/L		06/11/25 06:46	06/12/25 22:35	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: DUP-1

Lab Sample ID: 410-226305-13

Date Collected: 06/03/25 00:00

Matrix: Water

Date Received: 06/07/25 10:35

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	86.4		5 - 130	06/11/25 06:46	06/12/25 22:35	1
13C5-PFPeA	80.1		40 - 130	06/11/25 06:46	06/12/25 22:35	1
13C5-PFHxA	79.7		40 - 130	06/11/25 06:46	06/12/25 22:35	1
13C4-PFHpA	79.9		40 - 130	06/11/25 06:46	06/12/25 22:35	1
13C8-PFOA	85.9		40 - 130	06/11/25 06:46	06/12/25 22:35	1
13C9-PFNA	84.3		40 - 130	06/11/25 06:46	06/12/25 22:35	1
13C6-PFDA	84.9		40 - 130	06/11/25 06:46	06/12/25 22:35	1
13C7-PFUnA	94.6		30 - 130	06/11/25 06:46	06/12/25 22:35	1
13C2-PFTeDA	85.3		10 - 130	06/11/25 06:46	06/12/25 22:35	1
13C3-PFBS	84.3		40 - 135	06/11/25 06:46	06/12/25 22:35	1
13C3-PFHxS	80.9		40 - 130	06/11/25 06:46	06/12/25 22:35	1
13C8-PFOS	85.0		40 - 130	06/11/25 06:46	06/12/25 22:35	1
13C8-PFOSA	74.2		40 - 130	06/11/25 06:46	06/12/25 22:35	1
d3-NMeFOSAA	81.5		40 - 170	06/11/25 06:46	06/12/25 22:35	1
d5-NEtFOSAA	69.3		25 - 135	06/11/25 06:46	06/12/25 22:35	1
13C2-4:2 FTS	96.3		40 - 200	06/11/25 06:46	06/12/25 22:35	1
13C2-6:2 FTS	88.1		40 - 200	06/11/25 06:46	06/12/25 22:35	1
13C2-8:2 FTS	78.7		40 - 300	06/11/25 06:46	06/12/25 22:35	1
13C3-HFPO-DA	73.2		40 - 130	06/11/25 06:46	06/12/25 22:35	1
D7-NMeFOSE	76.1		10 - 130	06/11/25 06:46	06/12/25 22:35	1
D9-NEtFOSE	73.8		10 - 130	06/11/25 06:46	06/12/25 22:35	1
d5-NEtPFOSA	67.1		10 - 130	06/11/25 06:46	06/12/25 22:35	1
d3-NMePFOSA	72.6		10 - 130	06/11/25 06:46	06/12/25 22:35	1
13C2 PFDaA	90.2		10 - 130	06/11/25 06:46	06/12/25 22:35	1

Method: ELLE - Lancaster ELLE SOP - Total or Organic Fluorine by Combustion Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Adsorbable Organic Fluorine (AOF)	3.0		2.0	1.2	ug/L		06/26/25 11:00	06/26/25 23:38	1

Method: TAL SOP Total PFCA-Dif - Total PFCA (Treatment Difference)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	24				ng/L			07/03/25 10:24	1
Perfluorobutanoic acid (PFBA)	3.6				ng/L			07/03/25 10:24	1
Perfluoroheptanoic acid (PFHpA)	4.8				ng/L			07/03/25 10:24	1
Perfluorohexanoic acid (PFHxA)	4.1				ng/L			07/03/25 10:24	1
Perfluorononanoic acid (PFNA)	0.00				ng/L			07/03/25 10:24	1
Perfluorooctanoic acid (PFOA)	6.6				ng/L			07/03/25 10:24	1
Perfluoropentanoic acid (PFPA)	3.4				ng/L			07/03/25 10:24	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	140	J	500	0.20	ng/L			06/12/25 22:35	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	170	J	500	0.20	ng/L			06/20/25 19:17	1

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: Field Blank

Lab Sample ID: 410-226305-14

Date Collected: 06/04/25 13:15

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<5.4		20	5.4	ng/L		06/18/25 10:41	06/20/25 19:31	1
Perfluoropentanoic acid (PFPA)	<2.9		9.8	2.9	ng/L		06/18/25 10:41	06/20/25 19:31	1
Perfluorohexanoic acid (PFHxA)	9.5	J	9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:31	1
Perfluoroheptanoic acid (PFHpA)	15		9.8	3.9	ng/L		06/18/25 10:41	06/20/25 19:31	1
Perfluorooctanoic acid (PFOA)	17		9.8	4.4	ng/L		06/18/25 10:41	06/20/25 19:31	1
Perfluorononanoic acid (PFNA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:31	1
Perfluorodecanoic acid (PFDA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:31	1
Perfluoroundecanoic acid (PFUnA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:31	1
Perfluorododecanoic acid (PFDoA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:31	1
Perfluorotridecanoic acid (PFTrDA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:31	1
Perfluorotetradecanoic acid (PFTeDA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:31	1
Perfluorobutanesulfonic acid (PFBS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:31	1
Perfluoropentanesulfonic acid (PFPeS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:31	1
Perfluorohexanesulfonic acid (PFHxS)	<3.9		9.8	3.9	ng/L		06/18/25 10:41	06/20/25 19:31	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:31	1
Perfluorooctanesulfonic acid (PFOS)	<6.4		9.8	6.4	ng/L		06/18/25 10:41	06/20/25 19:31	1
Perfluorononanesulfonic acid (PFNS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:31	1
Perfluorododecanesulfonic acid (PFDoS)	<2.9		9.8	2.9	ng/L		06/18/25 10:41	06/20/25 19:31	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 19:31	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 19:31	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 19:31	1
Perfluorooctanesulfonamide (PFOSA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:31	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:31	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:31	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:31	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:31	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<12		49	12	ng/L		06/18/25 10:41	06/20/25 19:31	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<20		49	20	ng/L		06/18/25 10:41	06/20/25 19:31	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<6.9		9.8	6.9	ng/L		06/18/25 10:41	06/20/25 19:31	1
4,8-Dioxo-3H-perfluorononanoic acid (DONA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:31	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:31	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:31	1
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:31	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:31	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:31	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: Field Blank

Lab Sample ID: 410-226305-14

Date Collected: 06/04/25 13:15

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:31	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 19:31	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<14		49	14	ng/L		06/18/25 10:41	06/20/25 19:31	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<12		49	12	ng/L		06/18/25 10:41	06/20/25 19:31	1
Perfluorodecanesulfonic acid (PFDS)	<2.5		9.8	2.5	ng/L		06/18/25 10:41	06/20/25 19:31	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	86.7		10 - 130	06/18/25 10:41	06/20/25 19:31	1
13C5-PFPeA	88.2		35 - 150	06/18/25 10:41	06/20/25 19:31	1
13C5-PFHxA	92.0		55 - 150	06/18/25 10:41	06/20/25 19:31	1
13C4-PFHpA	90.4		55 - 150	06/18/25 10:41	06/20/25 19:31	1
13C9-PFNA	86.2		55 - 140	06/18/25 10:41	06/20/25 19:31	1
13C6-PFDA	90.3		50 - 140	06/18/25 10:41	06/20/25 19:31	1
13C7-PFUnA	87.6		30 - 140	06/18/25 10:41	06/20/25 19:31	1
13C2 PFDoA	80.7		10 - 150	06/18/25 10:41	06/20/25 19:31	1
13C2-PFTeDA	72.2		10 - 130	06/18/25 10:41	06/20/25 19:31	1
13C3-PFBS	91.4		55 - 150	06/18/25 10:41	06/20/25 19:31	1
13C3-PFHxS	91.6		55 - 150	06/18/25 10:41	06/20/25 19:31	1
13C8-PFOS	96.1		45 - 140	06/18/25 10:41	06/20/25 19:31	1
13C8-PFOSA	0.398		0 - 10	06/18/25 10:41	06/20/25 19:31	1
d3-NMeFOSAA	112		45 - 200	06/18/25 10:41	06/20/25 19:31	1
d5-NEtFOSAA	125		10 - 200	06/18/25 10:41	06/20/25 19:31	1
13C2-4:2 FTS	94.9		60 - 200	06/18/25 10:41	06/20/25 19:31	1
13C2-6:2 FTS	101		60 - 200	06/18/25 10:41	06/20/25 19:31	1
13C2-8:2 FTS	96.4		50 - 200	06/18/25 10:41	06/20/25 19:31	1
13C3-HFPO-DA	80.6		25 - 160	06/18/25 10:41	06/20/25 19:31	1
D7-NMeFOSE	72.3		10 - 150	06/18/25 10:41	06/20/25 19:31	1
D9-NEtFOSE	68.8		10 - 150	06/18/25 10:41	06/20/25 19:31	1
d5-NEtPFOSA	76.7		10 - 130	06/18/25 10:41	06/20/25 19:31	1
d3-NMePFOSA	84.1		15 - 130	06/18/25 10:41	06/20/25 19:31	1
13C2 PFOA	89.7		40 - 130	06/18/25 10:41	06/20/25 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	69		50 - 150	06/18/25 10:41	06/20/25 19:31	1
M3PFPeA	77		50 - 150	06/18/25 10:41	06/20/25 19:31	1

Method: EPA 1633_BLT - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.81		3.0	0.81	ng/L		07/01/25 14:27	07/02/25 14:10	1
Perfluoropentanoic acid (PFPeA)	<0.44		1.5	0.44	ng/L		07/01/25 14:27	07/02/25 14:10	1
Perfluorohexanoic acid (PFHxA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Perfluoroheptanoic acid (PFHpA)	<0.59		1.5	0.59	ng/L		07/01/25 14:27	07/02/25 14:10	1
Perfluorodecanoic acid (PFDA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Perfluoroundecanoic acid (PFUnA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Perfluorododecanoic acid (PFDoA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Perfluorotridecanoic acid (PFTTrDA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Perfluorotetradecanoic acid (PFTeDA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: Field Blank

Lab Sample ID: 410-226305-14

Date Collected: 06/04/25 13:15

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanesulfonic acid (PFPeS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Perfluorononanesulfonic acid (PFNS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Perfluorodecanesulfonic acid (PFDS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Perfluorododecanesulfonic acid (PFDoS)	<0.44		1.5	0.44	ng/L		07/01/25 14:27	07/02/25 14:10	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.74		3.0	0.74	ng/L		07/01/25 14:27	07/02/25 14:10	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.74		3.0	0.74	ng/L		07/01/25 14:27	07/02/25 14:10	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.74		3.0	0.74	ng/L		07/01/25 14:27	07/02/25 14:10	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.0		1.5	1.0	ng/L		07/01/25 14:27	07/02/25 14:10	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.74		3.0	0.74	ng/L		07/01/25 14:27	07/02/25 14:10	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.1		7.4	2.1	ng/L		07/01/25 14:27	07/02/25 14:10	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<1.8		7.4	1.8	ng/L		07/01/25 14:27	07/02/25 14:10	1
Br-Perfluorooctanoic acid (Br-PFOA)	<0.66		1.5	0.66	ng/L		07/01/25 14:27	07/02/25 14:10	1
L-Perfluorooctanoic acid (L-PFOA)	<0.66		1.5	0.66	ng/L		07/01/25 14:27	07/02/25 14:10	1
Total PFOA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Br-Perfluorononanoic acid (Br-PFNA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
L-Perfluorononanoic acid (L-PFNA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Total PFNA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	<0.59		1.5	0.59	ng/L		07/01/25 14:27	07/02/25 14:10	1
L-Perfluorohexanesulfonic acid (L-PFHxS)	<0.59		1.5	0.59	ng/L		07/01/25 14:27	07/02/25 14:10	1
Total PFHxS	<0.59		1.5	0.59	ng/L		07/01/25 14:27	07/02/25 14:10	1
Br-Perfluorooctanesulfonic acid (PFOS)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
L-Perfluorooctanesulfonic acid (PFOS)	<0.96		1.5	0.96	ng/L		07/01/25 14:27	07/02/25 14:10	1
Total PFOS	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Br-N-methylperfluorooctanesulfonami doacetic acid (Br-NMeFOSAA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: Field Blank

Lab Sample ID: 410-226305-14

Date Collected: 06/04/25 13:15

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
L-N-methylperfluorooctanesulfonamid oacetic acid (L-NMeFOSAA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Total NMeFOSAA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Br-N-ethylperfluorooctanesulfonamido acetic acid (Br-NEtFOSAA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
L-N-ethylperfluorooctanesulfonamido acetic acid (L-NEtFOSAA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Total NEtFOSAA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Br-N-ethylperfluorooctane sulfonamide (Br-NEtFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
L-N-ethylperfluorooctane sulfonamide (L-NEtFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Total NEtFOSA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Br-N-methylperfluorooctane sulfonamide (Br-NMeFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
L-N-methylperfluorooctane sulfonamide (L-NMeFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Total NMeFOSA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Br-Perfluorooctanesulfonamide (PFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
L-Perfluorooctanesulfonamide (L-PFOSA)	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Total PFOSA	<0.37		1.5	0.37	ng/L		07/01/25 14:27	07/02/25 14:10	1
Br-2- (N-ethylperfluoro-1-octanesulfonamid o) ethanol (Br-NEtFOSE)	<1.8		7.4	1.8	ng/L		07/01/25 14:27	07/02/25 14:10	1
L-N-ethylperfluorooctane sulfonamidoethanol (L-NEtFOSE)	<3.0		7.4	3.0	ng/L		07/01/25 14:27	07/02/25 14:10	1
Total NEtFOSE	1.9 J		7.4	1.8	ng/L		07/01/25 14:27	07/02/25 14:10	1
Br-2- (N-methylperfluoro-1-octanesulfonami do) ethanol (Br-NMeFOSE)	<1.8		7.4	1.8	ng/L		07/01/25 14:27	07/02/25 14:10	1
L-N-methylperfluorooctane sulfonamidoethanol (L-NMeFOSE)	<1.8		7.4	1.8	ng/L		07/01/25 14:27	07/02/25 14:10	1
Total NMeFOSE	1.8 J		7.4	1.8	ng/L		07/01/25 14:27	07/02/25 14:10	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	82		5 - 130				07/01/25 14:27	07/02/25 14:10	1
13C5 PFPeA	78		40 - 130				07/01/25 14:27	07/02/25 14:10	1
13C5 PFHxA	82		40 - 130				07/01/25 14:27	07/02/25 14:10	1
13C4 PFHpA	79		40 - 130				07/01/25 14:27	07/02/25 14:10	1
13C8 PFOA	81		40 - 130				07/01/25 14:27	07/02/25 14:10	1
13C9 PFNA	84		40 - 130				07/01/25 14:27	07/02/25 14:10	1
13C6 PFDA	78		40 - 130				07/01/25 14:27	07/02/25 14:10	1
13C7 PFUnA	81		30 - 130				07/01/25 14:27	07/02/25 14:10	1
13C2 PFDoA	80		10 - 130				07/01/25 14:27	07/02/25 14:10	1
13C2 PFTeDA	75		10 - 130				07/01/25 14:27	07/02/25 14:10	1
13C3 PFBS	81		40 - 135				07/01/25 14:27	07/02/25 14:10	1
13C3 PFHxS	81		40 - 130				07/01/25 14:27	07/02/25 14:10	1
13C8 PFOS	80		40 - 130				07/01/25 14:27	07/02/25 14:10	1
13C8 FOSA	70		40 - 130				07/01/25 14:27	07/02/25 14:10	1
d3-NMeFOSAA	79		40 - 170				07/01/25 14:27	07/02/25 14:10	1
d5-NEtFOSAA	78		25 - 135				07/01/25 14:27	07/02/25 14:10	1
13C2 4:2 FTS	85		40 - 200				07/01/25 14:27	07/02/25 14:10	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: Field Blank

Lab Sample ID: 410-226305-14

Date Collected: 06/04/25 13:15

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 6:2 FTS	92		40 - 200	07/01/25 14:27	07/02/25 14:10	1
13C2 8:2 FTS	85		40 - 300	07/01/25 14:27	07/02/25 14:10	1
13C3 HFPO-DA	76		40 - 130	07/01/25 14:27	07/02/25 14:10	1
d7-N-MeFOSE-M	72		10 - 130	07/01/25 14:27	07/02/25 14:10	1
d9-N-EtFOSE-M	71		10 - 130	07/01/25 14:27	07/02/25 14:10	1
d5-NEtPFOSA	52		10 - 130	07/01/25 14:27	07/02/25 14:10	1
d3-NMePFOSA	50		10 - 130	07/01/25 14:27	07/02/25 14:10	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.77		2.8	0.77	ng/L		06/11/25 06:46	06/12/25 22:49	1
Perfluoropentanoic acid (PFPA)	<0.42		1.4	0.42	ng/L		06/11/25 06:46	06/12/25 22:49	1
Perfluorohexanoic acid (PFHxA)	<0.35		1.4	0.35	ng/L		06/11/25 06:46	06/12/25 22:49	1
Perfluoroheptanoic acid (PFHpA)	<0.56		1.4	0.56	ng/L		06/11/25 06:46	06/12/25 22:49	1
Perfluorooctanoic acid (PFOA)	<0.63		1.4	0.63	ng/L		06/11/25 06:46	06/12/25 22:49	1
Perfluorononanoic acid (PFNA)	<0.35		1.4	0.35	ng/L		06/11/25 06:46	06/12/25 22:49	1
Perfluorodecanoic acid (PFDA)	<0.35		1.4	0.35	ng/L		06/11/25 06:46	06/12/25 22:49	1
Perfluoroundecanoic acid (PFUnA)	<0.35		1.4	0.35	ng/L		06/11/25 06:46	06/12/25 22:49	1
Perfluorododecanoic acid (PFDoA)	<0.35		1.4	0.35	ng/L		06/11/25 06:46	06/12/25 22:49	1
Perfluorotridecanoic acid (PFTrDA)	<0.35		1.4	0.35	ng/L		06/11/25 06:46	06/12/25 22:49	1
Perfluorotetradecanoic acid (PFTeDA)	<0.35		1.4	0.35	ng/L		06/11/25 06:46	06/12/25 22:49	1
Perfluorobutanesulfonic acid (PFBS)	<0.35		1.4	0.35	ng/L		06/11/25 06:46	06/12/25 22:49	1
Perfluoropentanesulfonic acid (PFPeS)	<0.35		1.4	0.35	ng/L		06/11/25 06:46	06/12/25 22:49	1
Perfluorohexanesulfonic acid (PFHxS)	<0.56		1.4	0.56	ng/L		06/11/25 06:46	06/12/25 22:49	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.35		1.4	0.35	ng/L		06/11/25 06:46	06/12/25 22:49	1
Perfluorooctanesulfonic acid (PFOS)	<0.91		1.4	0.91	ng/L		06/11/25 06:46	06/12/25 22:49	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.4	0.35	ng/L		06/11/25 06:46	06/12/25 22:49	1
Perfluorodecanesulfonic acid (PFDS)	<0.35		1.4	0.35	ng/L		06/11/25 06:46	06/12/25 22:49	1
Perfluorododecanesulfonic acid (PFDoS)	<0.42		1.4	0.42	ng/L		06/11/25 06:46	06/12/25 22:49	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.70		2.8	0.70	ng/L		06/11/25 06:46	06/12/25 22:49	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.70		2.8	0.70	ng/L		06/11/25 06:46	06/12/25 22:49	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.70		2.8	0.70	ng/L		06/11/25 06:46	06/12/25 22:49	1
Perfluorooctanesulfonamide (PFOSA)	<0.35		1.4	0.35	ng/L		06/11/25 06:46	06/12/25 22:49	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.35		1.4	0.35	ng/L		06/11/25 06:46	06/12/25 22:49	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<0.35		1.4	0.35	ng/L		06/11/25 06:46	06/12/25 22:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.35		1.4	0.35	ng/L		06/11/25 06:46	06/12/25 22:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.35		1.4	0.35	ng/L		06/11/25 06:46	06/12/25 22:49	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<1.8		7.0	1.8	ng/L		06/11/25 06:46	06/12/25 22:49	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<2.8		7.0	2.8	ng/L		06/11/25 06:46	06/12/25 22:49	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.99		1.4	0.99	ng/L		06/11/25 06:46	06/12/25 22:49	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: Field Blank

Lab Sample ID: 410-226305-14

Date Collected: 06/04/25 13:15

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<0.35		1.4	0.35	ng/L		06/11/25 06:46	06/12/25 22:49	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.35		1.4	0.35	ng/L		06/11/25 06:46	06/12/25 22:49	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.35		1.4	0.35	ng/L		06/11/25 06:46	06/12/25 22:49	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.35		1.4	0.35	ng/L		06/11/25 06:46	06/12/25 22:49	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	<0.35		1.4	0.35	ng/L		06/11/25 06:46	06/12/25 22:49	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.35		1.4	0.35	ng/L		06/11/25 06:46	06/12/25 22:49	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.35		1.4	0.35	ng/L		06/11/25 06:46	06/12/25 22:49	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.70		2.8	0.70	ng/L		06/11/25 06:46	06/12/25 22:49	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.0		7.0	2.0	ng/L		06/11/25 06:46	06/12/25 22:49	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<1.8		7.0	1.8	ng/L		06/11/25 06:46	06/12/25 22:49	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	82.7		5 - 130	06/11/25 06:46	06/12/25 22:49	1
13C5-PFPeA	78.9		40 - 130	06/11/25 06:46	06/12/25 22:49	1
13C5-PFHxA	79.6		40 - 130	06/11/25 06:46	06/12/25 22:49	1
13C4-PFHpA	80.0		40 - 130	06/11/25 06:46	06/12/25 22:49	1
13C8-PFOA	82.4		40 - 130	06/11/25 06:46	06/12/25 22:49	1
13C9-PFNA	83.0		40 - 130	06/11/25 06:46	06/12/25 22:49	1
13C6-PFDA	84.3		40 - 130	06/11/25 06:46	06/12/25 22:49	1
13C7-PFUnA	91.7		30 - 130	06/11/25 06:46	06/12/25 22:49	1
13C2-PFTeDA	85.4		10 - 130	06/11/25 06:46	06/12/25 22:49	1
13C3-PFBS	82.2		40 - 135	06/11/25 06:46	06/12/25 22:49	1
13C3-PFHxS	81.4		40 - 130	06/11/25 06:46	06/12/25 22:49	1
13C8-PFOS	81.8		40 - 130	06/11/25 06:46	06/12/25 22:49	1
13C8-PFOSA	67.9		40 - 130	06/11/25 06:46	06/12/25 22:49	1
d3-NMeFOSAA	79.2		40 - 170	06/11/25 06:46	06/12/25 22:49	1
d5-NEtFOSAA	65.9		25 - 135	06/11/25 06:46	06/12/25 22:49	1
13C2-4:2 FTS	85.4		40 - 200	06/11/25 06:46	06/12/25 22:49	1
13C2-6:2 FTS	82.1		40 - 200	06/11/25 06:46	06/12/25 22:49	1
13C2-8:2 FTS	77.0		40 - 300	06/11/25 06:46	06/12/25 22:49	1
13C3-HFPO-DA	72.4		40 - 130	06/11/25 06:46	06/12/25 22:49	1
D7-NMeFOSE	70.9		10 - 130	06/11/25 06:46	06/12/25 22:49	1
D9-NEtFOSE	74.1		10 - 130	06/11/25 06:46	06/12/25 22:49	1
d5-NEtPFOSA	61.9		10 - 130	06/11/25 06:46	06/12/25 22:49	1
d3-NMePFOSA	65.3		10 - 130	06/11/25 06:46	06/12/25 22:49	1
13C2 PFDoA	92.6		10 - 130	06/11/25 06:46	06/12/25 22:49	1

Method: ELLE - Lancaster ELLE SOP - Total or Organic Fluorine by Combustion Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Adsorbable Organic Fluorine (AOF)	<1.2		2.0	1.2	ug/L		06/26/25 11:00	06/27/25 00:50	1

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: Field Blank

Lab Sample ID: 410-226305-14

Date Collected: 06/04/25 13:15

Matrix: Water

Date Received: 06/07/25 10:35

Method: TAL SOP Total PFCA-Dif - Total PFCA (Treatment Difference)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	42				ng/L			07/03/25 10:24	1
Perfluorobutanoic acid (PFBA)	0.00				ng/L			07/03/25 10:24	1
Perfluoroheptanoic acid (PFHpA)	15				ng/L			07/03/25 10:24	1
Perfluorohexanoic acid (PFHxA)	9.5				ng/L			07/03/25 10:24	1
Perfluorononanoic acid (PFNA)	0.00				ng/L			07/03/25 10:24	1
Perfluorooctanoic acid (PFOA)	17				ng/L			07/03/25 10:24	1
Perfluoropentanoic acid (PFPA)	0.00				ng/L			07/03/25 10:24	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	<0.20		500	0.20	ng/L			06/12/25 22:49	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	42	J	500	0.20	ng/L			06/20/25 19:31	1

Client Sample ID: MW-5

Lab Sample ID: 410-226305-15

Date Collected: 06/03/25 12:25

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<5.4		20	5.4	ng/L		06/18/25 10:41	06/20/25 19:45	1
Perfluoropentanoic acid (PFPA)	23		9.9	3.0	ng/L		06/18/25 10:41	06/20/25 19:45	1
Perfluorohexanoic acid (PFHxA)	21		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 19:45	1
Perfluoroheptanoic acid (PFHpA)	18		9.9	4.0	ng/L		06/18/25 10:41	06/20/25 19:45	1
Perfluorooctanoic acid (PFOA)	27		9.9	4.4	ng/L		06/18/25 10:41	06/20/25 19:45	1
Perfluorononanoic acid (PFNA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 19:45	1
Perfluorodecanoic acid (PFDA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 19:45	1
Perfluoroundecanoic acid (PFUnA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 19:45	1
Perfluorododecanoic acid (PFDoA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 19:45	1
Perfluorotridecanoic acid (PFTrDA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 19:45	1
Perfluorotetradecanoic acid (PFTeDA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 19:45	1
Perfluorobutanesulfonic acid (PFBS)	8.0	J	9.9	2.5	ng/L		06/18/25 10:41	06/20/25 19:45	1
Perfluoropentanesulfonic acid (PFPeS)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 19:45	1
Perfluorohexanesulfonic acid (PFHxS)	10		9.9	4.0	ng/L		06/18/25 10:41	06/20/25 19:45	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 19:45	1
Perfluorooctanesulfonic acid (PFOS)	<6.4		9.9	6.4	ng/L		06/18/25 10:41	06/20/25 19:45	1
Perfluorononanesulfonic acid (PFNS)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 19:45	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		9.9	3.0	ng/L		06/18/25 10:41	06/20/25 19:45	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 19:45	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 19:45	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 19:45	1
Perfluorooctanesulfonamide (PFOSA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 19:45	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-5

Lab Sample ID: 410-226305-15

Date Collected: 06/03/25 12:25

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctane sulfonamide (NMeFOSA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 19:45	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 19:45	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 19:45	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 19:45	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<12		49	12	ng/L		06/18/25 10:41	06/20/25 19:45	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<20		49	20	ng/L		06/18/25 10:41	06/20/25 19:45	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<6.9		9.9	6.9	ng/L		06/18/25 10:41	06/20/25 19:45	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 19:45	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 19:45	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 19:45	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 19:45	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 19:45	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 19:45	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 19:45	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<4.9		20	4.9	ng/L		06/18/25 10:41	06/20/25 19:45	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<14		49	14	ng/L		06/18/25 10:41	06/20/25 19:45	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<12		49	12	ng/L		06/18/25 10:41	06/20/25 19:45	1
Perfluorodecanesulfonic acid (PFDS)	<2.5		9.9	2.5	ng/L		06/18/25 10:41	06/20/25 19:45	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	90.8		10 - 130				06/18/25 10:41	06/20/25 19:45	1
13C5-PFPeA	91.6		35 - 150				06/18/25 10:41	06/20/25 19:45	1
13C5-PFHxA	95.6		55 - 150				06/18/25 10:41	06/20/25 19:45	1
13C4-PFHpA	95.8		55 - 150				06/18/25 10:41	06/20/25 19:45	1
13C9-PFNA	88.9		55 - 140				06/18/25 10:41	06/20/25 19:45	1
13C6-PFDA	94.2		50 - 140				06/18/25 10:41	06/20/25 19:45	1
13C7-PFUnA	94.6		30 - 140				06/18/25 10:41	06/20/25 19:45	1
13C2 PFDoA	83.9		10 - 150				06/18/25 10:41	06/20/25 19:45	1
13C2-PFTeDA	81.6		10 - 130				06/18/25 10:41	06/20/25 19:45	1
13C3-PFBS	95.3		55 - 150				06/18/25 10:41	06/20/25 19:45	1
13C3-PFHxS	95.1		55 - 150				06/18/25 10:41	06/20/25 19:45	1
13C8-PFOS	100		45 - 140				06/18/25 10:41	06/20/25 19:45	1
13C8-PFOSA	0.500		0 - 10				06/18/25 10:41	06/20/25 19:45	1
d3-NMeFOSAA	113		45 - 200				06/18/25 10:41	06/20/25 19:45	1
d5-NEtFOSAA	122		10 - 200				06/18/25 10:41	06/20/25 19:45	1
13C2-4:2 FTS	91.6		60 - 200				06/18/25 10:41	06/20/25 19:45	1
13C2-6:2 FTS	105		60 - 200				06/18/25 10:41	06/20/25 19:45	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-5

Lab Sample ID: 410-226305-15

Date Collected: 06/03/25 12:25

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-8:2 FTS	98.4		50 - 200	06/18/25 10:41	06/20/25 19:45	1
13C3-HFPO-DA	87.7		25 - 160	06/18/25 10:41	06/20/25 19:45	1
D7-NMeFOSE	68.6		10 - 150	06/18/25 10:41	06/20/25 19:45	1
D9-NEtFOSE	71.1		10 - 150	06/18/25 10:41	06/20/25 19:45	1
d5-NEtPFOSA	83.0		10 - 130	06/18/25 10:41	06/20/25 19:45	1
d3-NMePFOSA	90.2		15 - 130	06/18/25 10:41	06/20/25 19:45	1
13C2 PFOA	94.6		40 - 130	06/18/25 10:41	06/20/25 19:45	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	73		50 - 150	06/18/25 10:41	06/20/25 19:45	1
M3PFPeA	85		50 - 150	06/18/25 10:41	06/20/25 19:45	1

Method: EPA 1633_BLT - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	28		3.2	0.87	ng/L		07/01/25 14:27	07/02/25 14:24	1
Perfluoropentanoic acid (PFPeA)	15		1.6	0.48	ng/L		07/01/25 14:27	07/02/25 14:24	1
Perfluorohexanoic acid (PFHxA)	14		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Perfluoroheptanoic acid (PFHpA)	9.8		1.6	0.64	ng/L		07/01/25 14:27	07/02/25 14:24	1
Perfluorodecanoic acid (PFDA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Perfluoroundecanoic acid (PFUnA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Perfluorododecanoic acid (PFDoA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Perfluorotridecanoic acid (PFTriDA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Perfluorotetradecanoic acid (PFTeDA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Perfluorobutanesulfonic acid (PFBS)	7.0		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Perfluoropentanesulfonic acid (PFPeS)	0.46 J		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Perfluorononanesulfonic acid (PFNS)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Perfluorodecanesulfonic acid (PFDS)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Perfluorododecanesulfonic acid (PFDoS)	<0.48		1.6	0.48	ng/L		07/01/25 14:27	07/02/25 14:24	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.79		3.2	0.79	ng/L		07/01/25 14:27	07/02/25 14:24	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.79		3.2	0.79	ng/L		07/01/25 14:27	07/02/25 14:24	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.79		3.2	0.79	ng/L		07/01/25 14:27	07/02/25 14:24	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.1		1.6	1.1	ng/L		07/01/25 14:27	07/02/25 14:24	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Nonfluoro-3,6-dioxahexanoic acid (NFDHA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-5

Lab Sample ID: 410-226305-15

Date Collected: 06/03/25 12:25

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.79		3.2	0.79	ng/L		07/01/25 14:27	07/02/25 14:24	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.2		7.9	2.2	ng/L		07/01/25 14:27	07/02/25 14:24	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<2.0		7.9	2.0	ng/L		07/01/25 14:27	07/02/25 14:24	1
Br-Perfluorooctanoic acid (Br-PFOA)	2.1		1.6	0.72	ng/L		07/01/25 14:27	07/02/25 14:24	1
L-Perfluorooctanoic acid (L-PFOA)	12		1.6	0.72	ng/L		07/01/25 14:27	07/02/25 14:24	1
Total PFOA	14		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Br-Perfluorononanoic acid (Br-PFNA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
L-Perfluorononanoic acid (L-PFNA)	0.51	J	1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Total PFNA	0.58	J	1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	0.88	J	1.6	0.64	ng/L		07/01/25 14:27	07/02/25 14:24	1
L-Perfluorohexanesulfonic acid (L-PFHxS)	7.4		1.6	0.64	ng/L		07/01/25 14:27	07/02/25 14:24	1
Total PFHxS	8.3		1.6	0.64	ng/L		07/01/25 14:27	07/02/25 14:24	1
Br-Perfluorooctanesulfonic acid (PFOS)	1.1	J	1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
L-Perfluorooctanesulfonic acid (PFOS)	<1.0		1.6	1.0	ng/L		07/01/25 14:27	07/02/25 14:24	1
Total PFOS	1.4	J	1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Br-N-methylperfluorooctanesulfonamidoacetic acid (Br-NMeFOSAA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
L-N-methylperfluorooctanesulfonamidoacetic acid (L-NMeFOSAA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Total NMeFOSAA	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid (Br-NEtFOSAA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
L-N-ethylperfluorooctanesulfonamidoacetic acid (L-NEtFOSAA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Total NEtFOSAA	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Br-N-ethylperfluorooctane sulfonamide (Br-NEtFOSA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
L-N-ethylperfluorooctane sulfonamide (L-NEtFOSA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Total NEtFOSA	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Br-N-methylperfluorooctane sulfonamide (Br-NMeFOSA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
L-N-methylperfluorooctane sulfonamide (L-NMeFOSA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Total NMeFOSA	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Br-Perfluorooctanesulfonamide (PFOSA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
L-Perfluorooctanesulfonamide (L-PFOSA)	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Total PFOSA	<0.40		1.6	0.40	ng/L		07/01/25 14:27	07/02/25 14:24	1
Br-2-(N-ethylperfluoro-1-octanesulfonamido) ethanol (Br-NEtFOSE)	<2.0		7.9	2.0	ng/L		07/01/25 14:27	07/02/25 14:24	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-5

Lab Sample ID: 410-226305-15

Date Collected: 06/03/25 12:25

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
L-N-ethylperfluorooctane	<3.2		7.9	3.2	ng/L		07/01/25 14:27	07/02/25 14:24	1
sulfonamidoethanol (L-NEtFOSE)									
Total NEtFOSE	<2.0		7.9	2.0	ng/L		07/01/25 14:27	07/02/25 14:24	1
Br-2-	<2.0		7.9	2.0	ng/L		07/01/25 14:27	07/02/25 14:24	1
(N-methylperfluoro-1-octanesulfonamido) ethanol (Br-NMeFOSE)									
L-N-methylperfluorooctane	<2.0		7.9	2.0	ng/L		07/01/25 14:27	07/02/25 14:24	1
sulfonamidoethanol (L-NMeFOSE)									
Total NMeFOSE	<2.0		7.9	2.0	ng/L		07/01/25 14:27	07/02/25 14:24	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	99		5 - 130				07/01/25 14:27	07/02/25 14:24	1
13C5 PFPeA	104		40 - 130				07/01/25 14:27	07/02/25 14:24	1
13C5 PFHxA	97		40 - 130				07/01/25 14:27	07/02/25 14:24	1
13C4 PFHpA	102		40 - 130				07/01/25 14:27	07/02/25 14:24	1
13C8 PFOA	105		40 - 130				07/01/25 14:27	07/02/25 14:24	1
13C9 PFNA	102		40 - 130				07/01/25 14:27	07/02/25 14:24	1
13C6 PFDA	102		40 - 130				07/01/25 14:27	07/02/25 14:24	1
13C7 PFUnA	94		30 - 130				07/01/25 14:27	07/02/25 14:24	1
13C2 PFDoA	94		10 - 130				07/01/25 14:27	07/02/25 14:24	1
13C2 PFTeDA	92		10 - 130				07/01/25 14:27	07/02/25 14:24	1
13C3 PFBS	98		40 - 135				07/01/25 14:27	07/02/25 14:24	1
13C3 PFHxS	103		40 - 130				07/01/25 14:27	07/02/25 14:24	1
13C8 PFOS	102		40 - 130				07/01/25 14:27	07/02/25 14:24	1
13C8 FOSA	91		40 - 130				07/01/25 14:27	07/02/25 14:24	1
d3-NMeFOSAA	84		40 - 170				07/01/25 14:27	07/02/25 14:24	1
d5-NEtFOSAA	98		25 - 135				07/01/25 14:27	07/02/25 14:24	1
13C2 4:2 FTS	97		40 - 200				07/01/25 14:27	07/02/25 14:24	1
13C2 6:2 FTS	108		40 - 200				07/01/25 14:27	07/02/25 14:24	1
13C2 8:2 FTS	95		40 - 300				07/01/25 14:27	07/02/25 14:24	1
13C3 HFPO-DA	99		40 - 130				07/01/25 14:27	07/02/25 14:24	1
d7-N-MeFOSE-M	85		10 - 130				07/01/25 14:27	07/02/25 14:24	1
d9-N-EtFOSE-M	83		10 - 130				07/01/25 14:27	07/02/25 14:24	1
d5-NEtPFOSA	74		10 - 130				07/01/25 14:27	07/02/25 14:24	1
d3-NMePFOSA	75		10 - 130				07/01/25 14:27	07/02/25 14:24	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	28		3.2	0.87	ng/L		06/11/25 06:46	06/12/25 23:03	1
Perfluoropentanoic acid (PFPA)	17		1.6	0.48	ng/L		06/11/25 06:46	06/12/25 23:03	1
Perfluorohexanoic acid (PFHxA)	16		1.6	0.40	ng/L		06/11/25 06:46	06/12/25 23:03	1
Perfluoroheptanoic acid (PFHpA)	11		1.6	0.63	ng/L		06/11/25 06:46	06/12/25 23:03	1
Perfluorooctanoic acid (PFOA)	19		1.6	0.71	ng/L		06/11/25 06:46	06/12/25 23:03	1
Perfluorononanoic acid (PFNA)	0.69 J		1.6	0.40	ng/L		06/11/25 06:46	06/12/25 23:03	1
Perfluorodecanoic acid (PFDA)	<0.40		1.6	0.40	ng/L		06/11/25 06:46	06/12/25 23:03	1
Perfluoroundecanoic acid (PFUnA)	<0.40		1.6	0.40	ng/L		06/11/25 06:46	06/12/25 23:03	1
Perfluorododecanoic acid (PFDoA)	<0.40		1.6	0.40	ng/L		06/11/25 06:46	06/12/25 23:03	1
Perfluorotridecanoic acid (PFTeDA)	<0.40		1.6	0.40	ng/L		06/11/25 06:46	06/12/25 23:03	1
Perfluorotetradecanoic acid (PFTeDA)	<0.40		1.6	0.40	ng/L		06/11/25 06:46	06/12/25 23:03	1
Perfluorobutanesulfonic acid (PFBS)	7.4		1.6	0.40	ng/L		06/11/25 06:46	06/12/25 23:03	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-5

Lab Sample ID: 410-226305-15

Date Collected: 06/03/25 12:25

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanesulfonic acid (PFPeS)	0.64	J	1.6	0.40	ng/L		06/11/25 06:46	06/12/25 23:03	1
Perfluorohexanesulfonic acid (PFHxS)	8.9		1.6	0.63	ng/L		06/11/25 06:46	06/12/25 23:03	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.40		1.6	0.40	ng/L		06/11/25 06:46	06/12/25 23:03	1
Perfluorooctanesulfonic acid (PFOS)	1.8	I cn	1.6	1.0	ng/L		06/11/25 06:46	06/12/25 23:03	1
Perfluorononanesulfonic acid (PFNS)	<0.40		1.6	0.40	ng/L		06/11/25 06:46	06/12/25 23:03	1
Perfluorodecanesulfonic acid (PFDS)	<0.40		1.6	0.40	ng/L		06/11/25 06:46	06/12/25 23:03	1
Perfluorododecanesulfonic acid (PFDoS)	<0.48		1.6	0.48	ng/L		06/11/25 06:46	06/12/25 23:03	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.79		3.2	0.79	ng/L		06/11/25 06:46	06/12/25 23:03	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.79		3.2	0.79	ng/L		06/11/25 06:46	06/12/25 23:03	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.79		3.2	0.79	ng/L		06/11/25 06:46	06/12/25 23:03	1
Perfluorooctanesulfonamide (PFOSA)	<0.40		1.6	0.40	ng/L		06/11/25 06:46	06/12/25 23:03	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.40		1.6	0.40	ng/L		06/11/25 06:46	06/12/25 23:03	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<0.40		1.6	0.40	ng/L		06/11/25 06:46	06/12/25 23:03	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.40		1.6	0.40	ng/L		06/11/25 06:46	06/12/25 23:03	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.40		1.6	0.40	ng/L		06/11/25 06:46	06/12/25 23:03	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<2.0		7.9	2.0	ng/L		06/11/25 06:46	06/12/25 23:03	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<3.2		7.9	3.2	ng/L		06/11/25 06:46	06/12/25 23:03	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.1		1.6	1.1	ng/L		06/11/25 06:46	06/12/25 23:03	1
4,8-Dioxo-3H-perfluorononanoic acid (DONA)	<0.40		1.6	0.40	ng/L		06/11/25 06:46	06/12/25 23:03	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.40		1.6	0.40	ng/L		06/11/25 06:46	06/12/25 23:03	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.40		1.6	0.40	ng/L		06/11/25 06:46	06/12/25 23:03	1
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.40		1.6	0.40	ng/L		06/11/25 06:46	06/12/25 23:03	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.40		1.6	0.40	ng/L		06/11/25 06:46	06/12/25 23:03	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.40		1.6	0.40	ng/L		06/11/25 06:46	06/12/25 23:03	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.40		1.6	0.40	ng/L		06/11/25 06:46	06/12/25 23:03	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.79		3.2	0.79	ng/L		06/11/25 06:46	06/12/25 23:03	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.2		7.9	2.2	ng/L		06/11/25 06:46	06/12/25 23:03	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<2.0		7.9	2.0	ng/L		06/11/25 06:46	06/12/25 23:03	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	94.1		5 - 130				06/11/25 06:46	06/12/25 23:03	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-5

Lab Sample ID: 410-226305-15

Date Collected: 06/03/25 12:25

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5-PFPeA	88.7		40 - 130	06/11/25 06:46	06/12/25 23:03	1
13C5-PFHxA	86.9		40 - 130	06/11/25 06:46	06/12/25 23:03	1
13C4-PFHpA	87.2		40 - 130	06/11/25 06:46	06/12/25 23:03	1
13C8-PFOA	90.9		40 - 130	06/11/25 06:46	06/12/25 23:03	1
13C9-PFNA	84.9		40 - 130	06/11/25 06:46	06/12/25 23:03	1
13C6-PFDA	82.7		40 - 130	06/11/25 06:46	06/12/25 23:03	1
13C7-PFUnA	77.7		30 - 130	06/11/25 06:46	06/12/25 23:03	1
13C2-PFTeDA	9.03	*5- cn	10 - 130	06/11/25 06:46	06/12/25 23:03	1
13C3-PFBS	91.6		40 - 135	06/11/25 06:46	06/12/25 23:03	1
13C3-PFHxS	86.2		40 - 130	06/11/25 06:46	06/12/25 23:03	1
13C8-PFOS	82.8		40 - 130	06/11/25 06:46	06/12/25 23:03	1
13C8-PFOSA	77.2		40 - 130	06/11/25 06:46	06/12/25 23:03	1
d3-NMeFOSAA	75.2		40 - 170	06/11/25 06:46	06/12/25 23:03	1
d5-NEtFOSAA	61.0		25 - 135	06/11/25 06:46	06/12/25 23:03	1
13C2-4:2 FTS	92.4		40 - 200	06/11/25 06:46	06/12/25 23:03	1
13C2-6:2 FTS	89.5		40 - 200	06/11/25 06:46	06/12/25 23:03	1
13C2-8:2 FTS	73.3		40 - 300	06/11/25 06:46	06/12/25 23:03	1
13C3-HFPO-DA	78.7		40 - 130	06/11/25 06:46	06/12/25 23:03	1
D7-NMeFOSE	22.1		10 - 130	06/11/25 06:46	06/12/25 23:03	1
D9-NEtFOSE	14.2		10 - 130	06/11/25 06:46	06/12/25 23:03	1
d5-NEtPFOSA	19.8		10 - 130	06/11/25 06:46	06/12/25 23:03	1
d3-NMePFOSA	30.6		10 - 130	06/11/25 06:46	06/12/25 23:03	1
13C2 PFDaA	54.8		10 - 130	06/11/25 06:46	06/12/25 23:03	1

Method: ELLE - Lancaster ELLE SOP - Total or Organic Fluorine by Combustion Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Adsorbable Organic Fluorine (AOF)	2.7		2.0	1.2	ug/L		06/26/25 11:00	06/27/25 02:02	1

Method: TAL SOP Total PFCA-Dif - Total PFCA (Treatment Difference)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	0.00				ng/L			07/03/25 10:24	1
Perfluorobutanoic acid (PFBA)	0.00				ng/L			07/03/25 10:24	1
Perfluoroheptanoic acid (PFHpA)	7.5				ng/L			07/03/25 10:24	1
Perfluorohexanoic acid (PFHxA)	5.8				ng/L			07/03/25 10:24	1
Perfluorononanoic acid (PFNA)	0.00				ng/L			07/03/25 10:24	1
Perfluorooctanoic acid (PFOA)	8.7				ng/L			07/03/25 10:24	1
Perfluoropentanoic acid (PFPA)	5.6				ng/L			07/03/25 10:24	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	92	J	500	0.20	ng/L			06/12/25 23:03	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	89	J	500	0.20	ng/L			06/20/25 19:45	1

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-6

Lab Sample ID: 410-226305-16

Date Collected: 06/03/25 13:30

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	56		20	5.5	ng/L		06/18/25 10:41	06/20/25 19:58	1
Perfluoropentanoic acid (PFPA)	37		10	3.0	ng/L		06/18/25 10:41	06/20/25 19:58	1
Perfluorohexanoic acid (PFHxA)	34		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:58	1
Perfluoroheptanoic acid (PFHpA)	30		10	4.0	ng/L		06/18/25 10:41	06/20/25 19:58	1
Perfluorooctanoic acid (PFOA)	65		10	4.5	ng/L		06/18/25 10:41	06/20/25 19:58	1
Perfluorononanoic acid (PFNA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:58	1
Perfluorodecanoic acid (PFDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:58	1
Perfluoroundecanoic acid (PFUnA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:58	1
Perfluorododecanoic acid (PFDoA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:58	1
Perfluorotridecanoic acid (PFTrDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:58	1
Perfluorotetradecanoic acid (PFTeDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:58	1
Perfluorobutanesulfonic acid (PFBS)	11		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:58	1
Perfluoropentanesulfonic acid (PFPeS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:58	1
Perfluorohexanesulfonic acid (PFHxS)	16		10	4.0	ng/L		06/18/25 10:41	06/20/25 19:58	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:58	1
Perfluorooctanesulfonic acid (PFOS)	<6.5		10	6.5	ng/L		06/18/25 10:41	06/20/25 19:58	1
Perfluorononanesulfonic acid (PFNS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:58	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		10	3.0	ng/L		06/18/25 10:41	06/20/25 19:58	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 19:58	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 19:58	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 19:58	1
Perfluorooctanesulfonamide (PFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:58	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:58	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:58	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<13		50	13	ng/L		06/18/25 10:41	06/20/25 19:58	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<20		50	20	ng/L		06/18/25 10:41	06/20/25 19:58	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<7.0		10	7.0	ng/L		06/18/25 10:41	06/20/25 19:58	1
4,8-Dioxo-3H-perfluorononanoic acid (DONA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:58	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:58	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:58	1
Nonfluoro-3,6-dioxahexanoic acid (NFDHA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:58	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:58	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-6

Lab Sample ID: 410-226305-16

Date Collected: 06/03/25 13:30

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:58	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:58	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 19:58	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<14		50	14	ng/L		06/18/25 10:41	06/20/25 19:58	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<13		50	13	ng/L		06/18/25 10:41	06/20/25 19:58	1
Perfluorodecanesulfonic acid (PFDS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 19:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	91.1		10 - 130	06/18/25 10:41	06/20/25 19:58	1
13C5-PFPeA	95.4		35 - 150	06/18/25 10:41	06/20/25 19:58	1
13C5-PFHxA	97.5		55 - 150	06/18/25 10:41	06/20/25 19:58	1
13C4-PFHpA	93.3		55 - 150	06/18/25 10:41	06/20/25 19:58	1
13C9-PFNA	89.9		55 - 140	06/18/25 10:41	06/20/25 19:58	1
13C6-PFDA	102		50 - 140	06/18/25 10:41	06/20/25 19:58	1
13C7-PFUnA	96.5		30 - 140	06/18/25 10:41	06/20/25 19:58	1
13C2 PFDoA	88.2		10 - 150	06/18/25 10:41	06/20/25 19:58	1
13C2-PFTeDA	84.2		10 - 130	06/18/25 10:41	06/20/25 19:58	1
13C3-PFBS	94.5		55 - 150	06/18/25 10:41	06/20/25 19:58	1
13C3-PFHxS	95.5		55 - 150	06/18/25 10:41	06/20/25 19:58	1
13C8-PFOS	99.8		45 - 140	06/18/25 10:41	06/20/25 19:58	1
13C8-PFOSA	0.843		0 - 10	06/18/25 10:41	06/20/25 19:58	1
d3-NMeFOSAA	111		45 - 200	06/18/25 10:41	06/20/25 19:58	1
d5-NEtFOSAA	120		10 - 200	06/18/25 10:41	06/20/25 19:58	1
13C2-4:2 FTS	93.7		60 - 200	06/18/25 10:41	06/20/25 19:58	1
13C2-6:2 FTS	108		60 - 200	06/18/25 10:41	06/20/25 19:58	1
13C2-8:2 FTS	101		50 - 200	06/18/25 10:41	06/20/25 19:58	1
13C3-HFPO-DA	89.0		25 - 160	06/18/25 10:41	06/20/25 19:58	1
D7-NMeFOSE	79.1		10 - 150	06/18/25 10:41	06/20/25 19:58	1
D9-NEtFOSE	85.2		10 - 150	06/18/25 10:41	06/20/25 19:58	1
d5-NEtPFOSA	83.4		10 - 130	06/18/25 10:41	06/20/25 19:58	1
d3-NMePFOSA	89.7		15 - 130	06/18/25 10:41	06/20/25 19:58	1
13C2 PFOA	90.6		40 - 130	06/18/25 10:41	06/20/25 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	82		50 - 150	06/18/25 10:41	06/20/25 19:58	1
M3PFPeA	87		50 - 150	06/18/25 10:41	06/20/25 19:58	1

Method: EPA 1633_BLT - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	41		2.9	0.79	ng/L		07/01/25 14:27	07/02/25 14:37	1
Perfluoropentanoic acid (PFPeA)	26		1.4	0.43	ng/L		07/01/25 14:27	07/02/25 14:37	1
Perfluorohexanoic acid (PFHxA)	20		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Perfluoroheptanoic acid (PFHpA)	15		1.4	0.57	ng/L		07/01/25 14:27	07/02/25 14:37	1
Perfluorodecanoic acid (PFDA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Perfluoroundecanoic acid (PFUnA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Perfluorododecanoic acid (PFDoA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Perfluorotridecanoic acid (PFTTrDA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-6

Lab Sample ID: 410-226305-16

Date Collected: 06/03/25 13:30

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeDA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Perfluorobutanesulfonic acid (PFBS)	8.4		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Perfluoropentanesulfonic acid (PFPeS)	0.70	J	1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Perfluoroheptanesulfonic acid (PFHpS)	0.42	J	1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Perfluorodecanesulfonic acid (PFDS)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Perfluorododecanesulfonic acid (PFDoS)	<0.43		1.4	0.43	ng/L		07/01/25 14:27	07/02/25 14:37	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.72		2.9	0.72	ng/L		07/01/25 14:27	07/02/25 14:37	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.72		2.9	0.72	ng/L		07/01/25 14:27	07/02/25 14:37	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.72		2.9	0.72	ng/L		07/01/25 14:27	07/02/25 14:37	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.0		1.4	1.0	ng/L		07/01/25 14:27	07/02/25 14:37	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.72		2.9	0.72	ng/L		07/01/25 14:27	07/02/25 14:37	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.0		7.2	2.0	ng/L		07/01/25 14:27	07/02/25 14:37	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<1.8		7.2	1.8	ng/L		07/01/25 14:27	07/02/25 14:37	1
Br-Perfluorooctanoic acid (Br-PFOA)	3.2		1.4	0.64	ng/L		07/01/25 14:27	07/02/25 14:37	1
L-Perfluorooctanoic acid (L-PFOA)	33		1.4	0.64	ng/L		07/01/25 14:27	07/02/25 14:37	1
Total PFOA	36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Br-Perfluorononanoic acid (Br-PFNA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
L-Perfluorononanoic acid (L-PFNA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Total PFNA	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	0.99	J	1.4	0.57	ng/L		07/01/25 14:27	07/02/25 14:37	1
L-Perfluorohexanesulfonic acid (L-PFHxS)	11		1.4	0.57	ng/L		07/01/25 14:27	07/02/25 14:37	1
Total PFHxS	12		1.4	0.57	ng/L		07/01/25 14:27	07/02/25 14:37	1
Br-Perfluorooctanesulfonic acid (PFOS)	4.2		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-6

Lab Sample ID: 410-226305-16

Date Collected: 06/03/25 13:30

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
L-Perfluorooctanesulfonic acid (PFOS)	<0.93		1.4	0.93	ng/L		07/01/25 14:27	07/02/25 14:37	1
Total PFOS	4.4	I cn	1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Br-N-methylperfluorooctanesulfonamidoacetic acid (Br-NMeFOSAA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
L-N-methylperfluorooctanesulfonamidoacetic acid (L-NMeFOSAA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Total NMeFOSAA	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid (Br-NEtFOSAA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
L-N-ethylperfluorooctanesulfonamidoacetic acid (L-NEtFOSAA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Total NEtFOSAA	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Br-N-ethylperfluorooctane sulfonamide (Br-NEtFOSA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
L-N-ethylperfluorooctane sulfonamide (L-NEtFOSA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Total NEtFOSA	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Br-N-methylperfluorooctane sulfonamide (Br-NMeFOSA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
L-N-methylperfluorooctane sulfonamide (L-NMeFOSA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Total NMeFOSA	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Br-Perfluorooctanesulfonamide (PFOSA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
L-Perfluorooctanesulfonamide (L-PFOSA)	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Total PFOSA	<0.36		1.4	0.36	ng/L		07/01/25 14:27	07/02/25 14:37	1
Br-2-(N-ethylperfluoro-1-octanesulfonamido) ethanol (Br-NEtFOSE)	<1.8		7.2	1.8	ng/L		07/01/25 14:27	07/02/25 14:37	1
L-N-ethylperfluorooctane sulfonamidoethanol (L-NEtFOSE)	<2.9		7.2	2.9	ng/L		07/01/25 14:27	07/02/25 14:37	1
Total NEtFOSE	<1.8		7.2	1.8	ng/L		07/01/25 14:27	07/02/25 14:37	1
Br-2-(N-methylperfluoro-1-octanesulfonamido) ethanol (Br-NMeFOSE)	<1.8		7.2	1.8	ng/L		07/01/25 14:27	07/02/25 14:37	1
L-N-methylperfluorooctane sulfonamidoethanol (L-NMeFOSE)	<1.8		7.2	1.8	ng/L		07/01/25 14:27	07/02/25 14:37	1
Total NMeFOSE	<1.8		7.2	1.8	ng/L		07/01/25 14:27	07/02/25 14:37	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	105		5 - 130				07/01/25 14:27	07/02/25 14:37	1
13C5 PFPeA	114		40 - 130				07/01/25 14:27	07/02/25 14:37	1
13C5 PFHxA	117		40 - 130				07/01/25 14:27	07/02/25 14:37	1
13C4 PFHpA	108		40 - 130				07/01/25 14:27	07/02/25 14:37	1
13C8 PFOA	116		40 - 130				07/01/25 14:27	07/02/25 14:37	1
13C9 PFNA	114		40 - 130				07/01/25 14:27	07/02/25 14:37	1
13C6 PFDA	112		40 - 130				07/01/25 14:27	07/02/25 14:37	1
13C7 PFUnA	105		30 - 130				07/01/25 14:27	07/02/25 14:37	1
13C2 PFDoA	100		10 - 130				07/01/25 14:27	07/02/25 14:37	1
13C2 PFTeDA	96		10 - 130				07/01/25 14:27	07/02/25 14:37	1
13C3 PFBS	106		40 - 135				07/01/25 14:27	07/02/25 14:37	1
13C3 PFHxS	108		40 - 130				07/01/25 14:27	07/02/25 14:37	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-6

Lab Sample ID: 410-226305-16

Date Collected: 06/03/25 13:30

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	109		40 - 130	07/01/25 14:27	07/02/25 14:37	1
13C8 FOSA	103		40 - 130	07/01/25 14:27	07/02/25 14:37	1
d3-NMeFOSAA	110		40 - 170	07/01/25 14:27	07/02/25 14:37	1
d5-NEtFOSAA	112		25 - 135	07/01/25 14:27	07/02/25 14:37	1
13C2 4:2 FTS	107		40 - 200	07/01/25 14:27	07/02/25 14:37	1
13C2 6:2 FTS	120		40 - 200	07/01/25 14:27	07/02/25 14:37	1
13C2 8:2 FTS	104		40 - 300	07/01/25 14:27	07/02/25 14:37	1
13C3 HFPO-DA	101		40 - 130	07/01/25 14:27	07/02/25 14:37	1
d7-N-MeFOSE-M	90		10 - 130	07/01/25 14:27	07/02/25 14:37	1
d9-N-EtFOSE-M	85		10 - 130	07/01/25 14:27	07/02/25 14:37	1
d5-NEtPFOSA	75		10 - 130	07/01/25 14:27	07/02/25 14:37	1
d3-NMePFOSA	75		10 - 130	07/01/25 14:27	07/02/25 14:37	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	47		2.9	0.81	ng/L		06/11/25 06:46	06/12/25 23:16	1
Perfluoropentanoic acid (PFPA)	30		1.5	0.44	ng/L		06/11/25 06:46	06/12/25 23:16	1
Perfluorohexanoic acid (PFHxA)	25		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:16	1
Perfluoroheptanoic acid (PFHpA)	19		1.5	0.59	ng/L		06/11/25 06:46	06/12/25 23:16	1
Perfluorooctanoic acid (PFOA)	55		1.5	0.66	ng/L		06/11/25 06:46	06/12/25 23:16	1
Perfluorononanoic acid (PFNA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:16	1
Perfluorodecanoic acid (PFDA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:16	1
Perfluoroundecanoic acid (PFUnA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:16	1
Perfluorododecanoic acid (PFDoA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:16	1
Perfluorotridecanoic acid (PFTriDA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:16	1
Perfluorotetradecanoic acid (PFTeDA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:16	1
Perfluorobutanesulfonic acid (PFBS)	11		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:16	1
Perfluoropentanesulfonic acid (PFPeS)	0.86 J		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:16	1
Perfluorohexanesulfonic acid (PFHxS)	15		1.5	0.59	ng/L		06/11/25 06:46	06/12/25 23:16	1
Perfluoroheptanesulfonic acid (PFHpS)	0.60 J		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:16	1
Perfluorooctanesulfonic acid (PFOS)	5.3 I cn		1.5	0.96	ng/L		06/11/25 06:46	06/12/25 23:16	1
Perfluorononanesulfonic acid (PFNS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:16	1
Perfluorodecanesulfonic acid (PFDS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:16	1
Perfluorododecanesulfonic acid (PFDoS)	<0.44		1.5	0.44	ng/L		06/11/25 06:46	06/12/25 23:16	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.74		2.9	0.74	ng/L		06/11/25 06:46	06/12/25 23:16	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.74		2.9	0.74	ng/L		06/11/25 06:46	06/12/25 23:16	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.74		2.9	0.74	ng/L		06/11/25 06:46	06/12/25 23:16	1
Perfluorooctanesulfonamide (PFOSA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:16	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:16	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:16	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:16	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-6

Lab Sample ID: 410-226305-16

Date Collected: 06/03/25 13:30

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:16	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<1.8		7.4	1.8	ng/L		06/11/25 06:46	06/12/25 23:16	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<2.9		7.4	2.9	ng/L		06/11/25 06:46	06/12/25 23:16	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.0		1.5	1.0	ng/L		06/11/25 06:46	06/12/25 23:16	1
4,8-Dioxo-3H-perfluorononanoic acid (DONA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:16	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:16	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:16	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:16	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:16	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:16	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:16	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.74		2.9	0.74	ng/L		06/11/25 06:46	06/12/25 23:16	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.1		7.4	2.1	ng/L		06/11/25 06:46	06/12/25 23:16	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<1.8		7.4	1.8	ng/L		06/11/25 06:46	06/12/25 23:16	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	94.5		5 - 130	06/11/25 06:46	06/12/25 23:16	1
13C5-PFPeA	92.7		40 - 130	06/11/25 06:46	06/12/25 23:16	1
13C5-PFHxA	91.7		40 - 130	06/11/25 06:46	06/12/25 23:16	1
13C4-PFHpA	89.4		40 - 130	06/11/25 06:46	06/12/25 23:16	1
13C8-PFOA	91.1		40 - 130	06/11/25 06:46	06/12/25 23:16	1
13C9-PFNA	90.6		40 - 130	06/11/25 06:46	06/12/25 23:16	1
13C6-PFDA	95.6		40 - 130	06/11/25 06:46	06/12/25 23:16	1
13C7-PFUnA	104		30 - 130	06/11/25 06:46	06/12/25 23:16	1
13C2-PFTeDA	64.0		10 - 130	06/11/25 06:46	06/12/25 23:16	1
13C3-PFBS	91.8		40 - 135	06/11/25 06:46	06/12/25 23:16	1
13C3-PFHxS	90.0		40 - 130	06/11/25 06:46	06/12/25 23:16	1
13C8-PFOS	89.2		40 - 130	06/11/25 06:46	06/12/25 23:16	1
13C8-PFOSA	84.3		40 - 130	06/11/25 06:46	06/12/25 23:16	1
d3-NMeFOSAA	96.2		40 - 170	06/11/25 06:46	06/12/25 23:16	1
d5-NEtFOSAA	85.1		25 - 135	06/11/25 06:46	06/12/25 23:16	1
13C2-4:2 FTS	106		40 - 200	06/11/25 06:46	06/12/25 23:16	1
13C2-6:2 FTS	99.3		40 - 200	06/11/25 06:46	06/12/25 23:16	1
13C2-8:2 FTS	84.7		40 - 300	06/11/25 06:46	06/12/25 23:16	1
13C3-HFPO-DA	77.8		40 - 130	06/11/25 06:46	06/12/25 23:16	1
D7-NMeFOSE	61.5		10 - 130	06/11/25 06:46	06/12/25 23:16	1
D9-NEtFOSE	54.4		10 - 130	06/11/25 06:46	06/12/25 23:16	1
d5-NEtPFOSA	32.6		10 - 130	06/11/25 06:46	06/12/25 23:16	1
d3-NMePFOSA	45.6		10 - 130	06/11/25 06:46	06/12/25 23:16	1
13C2 PFDoA	99.8		10 - 130	06/11/25 06:46	06/12/25 23:16	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-6

Lab Sample ID: 410-226305-16

Date Collected: 06/03/25 13:30

Matrix: Water

Date Received: 06/07/25 10:35

Method: ELLE - Lancaster ELLE SOP - Total or Organic Fluorine by Combustion Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Adsorbable Organic Fluorine (AOF)	4.4		2.0	1.2	ug/L		06/26/25 11:00	06/27/25 03:14	1

Method: TAL SOP Total PFCA-Dif - Total PFCA (Treatment Difference)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	46				ng/L			07/03/25 10:24	1
Perfluorobutanoic acid (PFBA)	9.3				ng/L			07/03/25 10:24	1
Perfluoroheptanoic acid (PFHpA)	12				ng/L			07/03/25 10:24	1
Perfluorohexanoic acid (PFHxA)	8.8				ng/L			07/03/25 10:24	1
Perfluorononanoic acid (PFNA)	0.00				ng/L			07/03/25 10:24	1
Perfluorooctanoic acid (PFOA)	10				ng/L			07/03/25 10:24	1
Perfluoropentanoic acid (PFPA)	6.4				ng/L			07/03/25 10:24	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	180	J	500	0.20	ng/L			06/12/25 23:16	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	220	J	500	0.20	ng/L			06/20/25 19:58	1

Client Sample ID: MW-7

Lab Sample ID: 410-226305-17

Date Collected: 06/03/25 14:40

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<5.5		20	5.5	ng/L		06/18/25 10:41	06/20/25 20:12	1
Perfluoropentanoic acid (PFPA)	31		10	3.0	ng/L		06/18/25 10:41	06/20/25 20:12	1
Perfluorohexanoic acid (PFHxA)	30		10	2.5	ng/L		06/18/25 10:41	06/20/25 20:12	1
Perfluoroheptanoic acid (PFHpA)	29		10	4.0	ng/L		06/18/25 10:41	06/20/25 20:12	1
Perfluorooctanoic acid (PFOA)	88		10	4.5	ng/L		06/18/25 10:41	06/20/25 20:12	1
Perfluorononanoic acid (PFNA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 20:12	1
Perfluorodecanoic acid (PFDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 20:12	1
Perfluoroundecanoic acid (PFUnA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 20:12	1
Perfluorododecanoic acid (PFDoA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 20:12	1
Perfluorotridecanoic acid (PFTrDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 20:12	1
Perfluorotetradecanoic acid (PFTeDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 20:12	1
Perfluorobutanesulfonic acid (PFBS)	13		10	2.5	ng/L		06/18/25 10:41	06/20/25 20:12	1
Perfluoropentanesulfonic acid (PFPeS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 20:12	1
Perfluorohexanesulfonic acid (PFHxS)	20		10	4.0	ng/L		06/18/25 10:41	06/20/25 20:12	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 20:12	1
Perfluorooctanesulfonic acid (PFOS)	<6.5		10	6.5	ng/L		06/18/25 10:41	06/20/25 20:12	1
Perfluorononanesulfonic acid (PFNS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 20:12	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		10	3.0	ng/L		06/18/25 10:41	06/20/25 20:12	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 20:12	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-7

Lab Sample ID: 410-226305-17

Date Collected: 06/03/25 14:40

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 20:12	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 20:12	1
Perfluorooctanesulfonamide (PFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 20:12	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 20:12	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 20:12	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 20:12	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 20:12	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<12		50	12	ng/L		06/18/25 10:41	06/20/25 20:12	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<20		50	20	ng/L		06/18/25 10:41	06/20/25 20:12	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<7.0		10	7.0	ng/L		06/18/25 10:41	06/20/25 20:12	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 20:12	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 20:12	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 20:12	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 20:12	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 20:12	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 20:12	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 20:12	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 20:12	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<14		50	14	ng/L		06/18/25 10:41	06/20/25 20:12	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<12		50	12	ng/L		06/18/25 10:41	06/20/25 20:12	1
Perfluorodecanesulfonic acid (PFDS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 20:12	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4-PFBA	82.7		10 - 130				06/18/25 10:41	06/20/25 20:12	1
13C5-PFPeA	81.9		35 - 150				06/18/25 10:41	06/20/25 20:12	1
13C5-PFHxA	85.2		55 - 150				06/18/25 10:41	06/20/25 20:12	1
13C4-PFHpA	85.0		55 - 150				06/18/25 10:41	06/20/25 20:12	1
13C9-PFNA	79.3		55 - 140				06/18/25 10:41	06/20/25 20:12	1
13C6-PFDA	86.0		50 - 140				06/18/25 10:41	06/20/25 20:12	1
13C7-PFUnA	83.0		30 - 140				06/18/25 10:41	06/20/25 20:12	1
13C2-PFDoA	77.7		10 - 150				06/18/25 10:41	06/20/25 20:12	1
13C2-PFTeDA	76.1		10 - 130				06/18/25 10:41	06/20/25 20:12	1
13C3-PFBS	85.8		55 - 150				06/18/25 10:41	06/20/25 20:12	1
13C3-PFHxS	85.2		55 - 150				06/18/25 10:41	06/20/25 20:12	1
13C8-PFOS	92.0		45 - 140				06/18/25 10:41	06/20/25 20:12	1
13C8-PFOSA	0.559		0 - 10				06/18/25 10:41	06/20/25 20:12	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-7

Lab Sample ID: 410-226305-17

Date Collected: 06/03/25 14:40

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 TOPS - Fluorinated Alkyl Substances - Post-Treatment (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	106		45 - 200	06/18/25 10:41	06/20/25 20:12	1
d5-NEtFOSAA	111		10 - 200	06/18/25 10:41	06/20/25 20:12	1
13C2-4:2 FTS	87.3		60 - 200	06/18/25 10:41	06/20/25 20:12	1
13C2-6:2 FTS	99.4		60 - 200	06/18/25 10:41	06/20/25 20:12	1
13C2-8:2 FTS	91.1		50 - 200	06/18/25 10:41	06/20/25 20:12	1
13C3-HFPO-DA	81.8		25 - 160	06/18/25 10:41	06/20/25 20:12	1
D7-NMeFOSE	74.1		10 - 150	06/18/25 10:41	06/20/25 20:12	1
D9-NEtFOSE	81.5		10 - 150	06/18/25 10:41	06/20/25 20:12	1
d5-NEtPFOSA	81.2		10 - 130	06/18/25 10:41	06/20/25 20:12	1
d3-NMePFOSA	80.2		15 - 130	06/18/25 10:41	06/20/25 20:12	1
13C2 PFOA	86.0		40 - 130	06/18/25 10:41	06/20/25 20:12	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	67		50 - 150	06/18/25 10:41	06/20/25 20:12	1
M3PFPeA	76		50 - 150	06/18/25 10:41	06/20/25 20:12	1

Method: EPA 1633_BLT - Branched, Linear and Total PFAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	29		3.1	0.85	ng/L		07/01/25 14:27	07/02/25 14:51	1
Perfluoropentanoic acid (PFPeA)	23		1.5	0.46	ng/L		07/01/25 14:27	07/02/25 14:51	1
Perfluorohexanoic acid (PFHxA)	22		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Perfluoroheptanoic acid (PFHpA)	19		1.5	0.62	ng/L		07/01/25 14:27	07/02/25 14:51	1
Perfluorodecanoic acid (PFDA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Perfluoroundecanoic acid (PFUnA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Perfluorododecanoic acid (PFDoA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Perfluorotridecanoic acid (PFTrDA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Perfluorotetradecanoic acid (PFTeDA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Perfluorobutanesulfonic acid (PFBS)	11		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Perfluoropentanesulfonic acid (PFPeS)	0.87 J		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Perfluoroheptanesulfonic acid (PFHpS)	0.62 J		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Perfluorononanesulfonic acid (PFNS)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Perfluorodecanesulfonic acid (PFDS)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Perfluorododecanesulfonic acid (PFDoS)	<0.46		1.5	0.46	ng/L		07/01/25 14:27	07/02/25 14:51	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.77		3.1	0.77	ng/L		07/01/25 14:27	07/02/25 14:51	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.77		3.1	0.77	ng/L		07/01/25 14:27	07/02/25 14:51	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.77		3.1	0.77	ng/L		07/01/25 14:27	07/02/25 14:51	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.1		1.5	1.1	ng/L		07/01/25 14:27	07/02/25 14:51	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-7

Lab Sample ID: 410-226305-17

Date Collected: 06/03/25 14:40

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.77		3.1	0.77	ng/L		07/01/25 14:27	07/02/25 14:51	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.2		7.7	2.2	ng/L		07/01/25 14:27	07/02/25 14:51	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<1.9		7.7	1.9	ng/L		07/01/25 14:27	07/02/25 14:51	1
Br-Perfluorooctanoic acid (Br-PFOA)	4.0		1.5	0.69	ng/L		07/01/25 14:27	07/02/25 14:51	1
L-Perfluorooctanoic acid (L-PFOA)	53		1.5	0.69	ng/L		07/01/25 14:27	07/02/25 14:51	1
Total PFOA	57		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Br-Perfluorononanoic acid (Br-PFNA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
L-Perfluorononanoic acid (L-PFNA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Total PFNA	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	1.6		1.5	0.62	ng/L		07/01/25 14:27	07/02/25 14:51	1
L-Perfluorohexanesulfonic acid (L-PFHxS)	13		1.5	0.62	ng/L		07/01/25 14:27	07/02/25 14:51	1
Total PFHxS	14		1.5	0.62	ng/L		07/01/25 14:27	07/02/25 14:51	1
Br-Perfluorooctanesulfonic acid (PFOS)	3.9		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
L-Perfluorooctanesulfonic acid (PFOS)	<1.0		1.5	1.0	ng/L		07/01/25 14:27	07/02/25 14:51	1
Total PFOS	4.4		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Br-N-methylperfluorooctanesulfonami doacetic acid (Br-NMeFOSAA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
L-N-methylperfluorooctanesulfonamid oacetic acid (L-NMeFOSAA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Total NMeFOSAA	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Br-N-ethylperfluorooctanesulfonamido acetic acid (Br-NEtFOSAA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
L-N-ethylperfluorooctanesulfonamido acetic acid (L-NEtFOSAA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Total NEtFOSAA	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Br-N-ethylperfluorooctane sulfonamide (Br-NEtFOSA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
L-N-ethylperfluorooctane sulfonamide (L-NEtFOSA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Total NEtFOSA	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Br-N-methylperfluorooctane sulfonamide (Br-NMeFOSA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
L-N-methylperfluorooctane sulfonamide (L-NMeFOSA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Total NMeFOSA	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Br-Perfluorooctanesulfonamide (PFOSA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
L-Perfluorooctanesulfonamide (L-PFOSA)	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1
Total PFOSA	<0.38		1.5	0.38	ng/L		07/01/25 14:27	07/02/25 14:51	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-7

Lab Sample ID: 410-226305-17

Date Collected: 06/03/25 14:40

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633_BLT - Branched, Linear and Total PFAS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Br-2- (N-ethylperfluoro-1-octanesulfonamid o) ethanol (Br-NEtFOSE)	<1.9		7.7	1.9	ng/L		07/01/25 14:27	07/02/25 14:51	1
L-N-ethylperfluorooctane sulfonamidoethanol (L-NEtFOSE)	<3.1		7.7	3.1	ng/L		07/01/25 14:27	07/02/25 14:51	1
Total NEtFOSE	<1.9		7.7	1.9	ng/L		07/01/25 14:27	07/02/25 14:51	1
Br-2- (N-methylperfluoro-1-octanesulfonami do) ethanol (Br-NMeFOSE)	<1.9		7.7	1.9	ng/L		07/01/25 14:27	07/02/25 14:51	1
L-N-methylperfluorooctane sulfonamidoethanol (L-NMeFOSE)	<1.9		7.7	1.9	ng/L		07/01/25 14:27	07/02/25 14:51	1
Total NMeFOSE	<1.9		7.7	1.9	ng/L		07/01/25 14:27	07/02/25 14:51	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	97		5 - 130				07/01/25 14:27	07/02/25 14:51	1
13C5 PFPeA	105		40 - 130				07/01/25 14:27	07/02/25 14:51	1
13C5 PFHxA	100		40 - 130				07/01/25 14:27	07/02/25 14:51	1
13C4 PFHpA	99		40 - 130				07/01/25 14:27	07/02/25 14:51	1
13C8 PFOA	102		40 - 130				07/01/25 14:27	07/02/25 14:51	1
13C9 PFNA	99		40 - 130				07/01/25 14:27	07/02/25 14:51	1
13C6 PFDA	107		40 - 130				07/01/25 14:27	07/02/25 14:51	1
13C7 PFUnA	95		30 - 130				07/01/25 14:27	07/02/25 14:51	1
13C2 PFDoA	97		10 - 130				07/01/25 14:27	07/02/25 14:51	1
13C2 PFTeDA	95		10 - 130				07/01/25 14:27	07/02/25 14:51	1
13C3 PFBS	101		40 - 135				07/01/25 14:27	07/02/25 14:51	1
13C3 PFHxS	97		40 - 130				07/01/25 14:27	07/02/25 14:51	1
13C8 PFOS	104		40 - 130				07/01/25 14:27	07/02/25 14:51	1
13C8 FOSA	86		40 - 130				07/01/25 14:27	07/02/25 14:51	1
d3-NMeFOSAA	95		40 - 170				07/01/25 14:27	07/02/25 14:51	1
d5-NEtFOSAA	95		25 - 135				07/01/25 14:27	07/02/25 14:51	1
13C2 4:2 FTS	97		40 - 200				07/01/25 14:27	07/02/25 14:51	1
13C2 6:2 FTS	104		40 - 200				07/01/25 14:27	07/02/25 14:51	1
13C2 8:2 FTS	90		40 - 300				07/01/25 14:27	07/02/25 14:51	1
13C3 HFPO-DA	96		40 - 130				07/01/25 14:27	07/02/25 14:51	1
d7-N-MeFOSE-M	77		10 - 130				07/01/25 14:27	07/02/25 14:51	1
d9-N-EtFOSE-M	72		10 - 130				07/01/25 14:27	07/02/25 14:51	1
d5-NEtPFOSA	67		10 - 130				07/01/25 14:27	07/02/25 14:51	1
d3-NMePFOSA	66		10 - 130				07/01/25 14:27	07/02/25 14:51	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	33		3.0	0.82	ng/L		06/11/25 06:46	06/12/25 23:30	1
Perfluoropentanoic acid (PFPA)	26		1.5	0.45	ng/L		06/11/25 06:46	06/12/25 23:30	1
Perfluorohexanoic acid (PFHxA)	25		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:30	1
Perfluoroheptanoic acid (PFHpA)	24		1.5	0.60	ng/L		06/11/25 06:46	06/12/25 23:30	1
Perfluorooctanoic acid (PFOA)	85		1.5	0.67	ng/L		06/11/25 06:46	06/12/25 23:30	1
Perfluorononanoic acid (PFNA)	0.56 J		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:30	1
Perfluorodecanoic acid (PFDA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:30	1
Perfluoroundecanoic acid (PFUnA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:30	1
Perfluorododecanoic acid (PFDoA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:30	1
Perfluorotridecanoic acid (PFTrDA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:30	1
Perfluorotetradecanoic acid (PFTeDA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:30	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-7

Lab Sample ID: 410-226305-17

Date Collected: 06/03/25 14:40

Matrix: Water

Date Received: 06/07/25 10:35

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - Pre-Treatment (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	14		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:30	1
Perfluoropentanesulfonic acid (PFPeS)	1.0	J	1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:30	1
Perfluorohexanesulfonic acid (PFHxS)	18		1.5	0.60	ng/L		06/11/25 06:46	06/12/25 23:30	1
Perfluoroheptanesulfonic acid (PFHpS)	0.69	J	1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:30	1
Perfluorooctanesulfonic acid (PFOS)	5.0	I cn	1.5	0.97	ng/L		06/11/25 06:46	06/12/25 23:30	1
Perfluorononanesulfonic acid (PFNS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:30	1
Perfluorodecanesulfonic acid (PFDS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:30	1
Perfluorododecanesulfonic acid (PFDoS)	<0.45		1.5	0.45	ng/L		06/11/25 06:46	06/12/25 23:30	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.75		3.0	0.75	ng/L		06/11/25 06:46	06/12/25 23:30	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.75		3.0	0.75	ng/L		06/11/25 06:46	06/12/25 23:30	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.75		3.0	0.75	ng/L		06/11/25 06:46	06/12/25 23:30	1
Perfluorooctanesulfonamide (PFOSA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:30	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:30	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:30	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:30	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:30	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<1.9		7.5	1.9	ng/L		06/11/25 06:46	06/12/25 23:30	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<3.0		7.5	3.0	ng/L		06/11/25 06:46	06/12/25 23:30	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.0		1.5	1.0	ng/L		06/11/25 06:46	06/12/25 23:30	1
4,8-Dioxo-3H-perfluorononanoic acid (DONA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:30	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:30	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:30	1
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:30	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:30	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:30	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.37		1.5	0.37	ng/L		06/11/25 06:46	06/12/25 23:30	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.75		3.0	0.75	ng/L		06/11/25 06:46	06/12/25 23:30	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.1		7.5	2.1	ng/L		06/11/25 06:46	06/12/25 23:30	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<1.9		7.5	1.9	ng/L		06/11/25 06:46	06/12/25 23:30	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-7

Lab Sample ID: 410-226305-17

Date Collected: 06/03/25 14:40

Matrix: Water

Date Received: 06/07/25 10:35

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	81.6		5 - 130	06/11/25 06:46	06/12/25 23:30	1
13C5-PFPeA	80.6		40 - 130	06/11/25 06:46	06/12/25 23:30	1
13C5-PFHxA	78.1		40 - 130	06/11/25 06:46	06/12/25 23:30	1
13C4-PFHpA	78.9		40 - 130	06/11/25 06:46	06/12/25 23:30	1
13C8-PFOA	81.9		40 - 130	06/11/25 06:46	06/12/25 23:30	1
13C9-PFNA	81.2		40 - 130	06/11/25 06:46	06/12/25 23:30	1
13C6-PFDA	84.3		40 - 130	06/11/25 06:46	06/12/25 23:30	1
13C7-PFUnA	92.5		30 - 130	06/11/25 06:46	06/12/25 23:30	1
13C2-PFTeDA	81.1		10 - 130	06/11/25 06:46	06/12/25 23:30	1
13C3-PFBS	81.5		40 - 135	06/11/25 06:46	06/12/25 23:30	1
13C3-PFHxS	80.0		40 - 130	06/11/25 06:46	06/12/25 23:30	1
13C8-PFOS	82.9		40 - 130	06/11/25 06:46	06/12/25 23:30	1
13C8-PFOSA	71.0		40 - 130	06/11/25 06:46	06/12/25 23:30	1
d3-NMeFOSAA	79.3		40 - 170	06/11/25 06:46	06/12/25 23:30	1
d5-NEtFOSAA	69.2		25 - 135	06/11/25 06:46	06/12/25 23:30	1
13C2-4:2 FTS	93.0		40 - 200	06/11/25 06:46	06/12/25 23:30	1
13C2-6:2 FTS	87.7		40 - 200	06/11/25 06:46	06/12/25 23:30	1
13C2-8:2 FTS	76.0		40 - 300	06/11/25 06:46	06/12/25 23:30	1
13C3-HFPO-DA	71.6		40 - 130	06/11/25 06:46	06/12/25 23:30	1
D7-NMeFOSE	73.4		10 - 130	06/11/25 06:46	06/12/25 23:30	1
D9-NEtFOSE	71.2		10 - 130	06/11/25 06:46	06/12/25 23:30	1
d5-NEtPFOSA	63.3		10 - 130	06/11/25 06:46	06/12/25 23:30	1
d3-NMePFOSA	65.1		10 - 130	06/11/25 06:46	06/12/25 23:30	1
13C2 PFDaA	88.6		10 - 130	06/11/25 06:46	06/12/25 23:30	1

Method: ELLE - Lancaster ELLE SOP - Total or Organic Fluorine by Combustion Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Adsorbable Organic Fluorine (AOF)	3.0		2.0	1.2	ug/L		06/26/25 11:00	06/27/25 04:25	1

Method: TAL SOP Total PFCA-Dif - Total PFCA (Treatment Difference)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	0.00				ng/L			07/03/25 10:24	1
Perfluorobutanoic acid (PFBA)	0.00				ng/L			07/03/25 10:24	1
Perfluoroheptanoic acid (PFHpA)	5.1				ng/L			07/03/25 10:24	1
Perfluorohexanoic acid (PFHxA)	4.4				ng/L			07/03/25 10:24	1
Perfluorononanoic acid (PFNA)	0.00				ng/L			07/03/25 10:24	1
Perfluorooctanoic acid (PFOA)	3.5				ng/L			07/03/25 10:24	1
Perfluoropentanoic acid (PFPA)	5.1				ng/L			07/03/25 10:24	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Pre-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	190	J	500	0.20	ng/L			06/12/25 23:30	1

Method: TAL SOP Total PFCA-Sum - Total PFCA (Summary) - Post-Treatment

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PFCA	180	J	500	0.20	ng/L			06/20/25 20:12	1

Surrogate Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633 TOPS - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Post-Treatment

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	PFUnA (50-150)	M3PFPeA (50-150)
410-226305-1	4959-County Rd-06	75	84
410-226305-2	2053-49th-07	67	75
410-226305-3	1950-49th-08	76	83
410-226305-4	1881-49th-09	73	86
410-226305-5	DUP-02	82	86
410-226305-6	1710-54th-01	57	64
410-226305-7	1670-54th-02	75	81
410-226305-8	1640-52nd-03-Lawn	74	84
410-226305-9	1640-52nd-03-House	80	81
410-226305-10	1833-52nd-04	55	63
410-226305-11	5321-County Rd-05	67	79
410-226305-12	MW-8	63	70
410-226305-13	DUP-1	57	71
410-226305-14	Field Blank	69	77
410-226305-15	MW-5	73	85
410-226305-16	MW-6	82	87
410-226305-17	MW-7	67	76
Surrogate Legend			
PFUnA = 13C2 PFUnA			
M3PFPeA = M3PFPeA			

Method: 1633 TOPS - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Post-Treatment

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	PFUnA	M3PFPeA
MB 410-659410/1-A	Method Blank		
Surrogate Legend			
PFUnA = 13C2 PFUnA			
M3PFPeA = M3PFPeA			

Isotope Dilution Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Pre-Treatment

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (5-130)	PFPeA (40-130)	13C5PHA (40-130)	C4PFHA (40-130)	C8PFOA (40-130)	C9PFNA (40-130)	C6PFDA (40-130)	13C7PUA (30-130)
410-226305-1	4959-County Rd-06	93.9	88.9	86.5	88.9	93.4	87.7	89.8	94.3
410-226305-2	2053-49th-07	89.4	85.2	83.4	86.9	86.2	85.3	82.8	94.5
410-226305-3	1950-49th-08	85.5	80.9	80.7	80.4	79.3	83.2	84.7	95.6
410-226305-4	1881-49th-09	87.1	82.9	82.5	85.3	85.7	87.1	87.1	98.5
410-226305-5	DUP-02	94.6	90.8	93.0	88.9	89.2	87.2	91.3	102
410-226305-6	1710-54th-01	90.4	83.1	83.4	83.0	86.8	83.8	89.5	99.4
410-226305-7	1670-54th-02	93.6	88.9	88.8	85.5	90.5	87.6	92.9	92.7
410-226305-8	1640-52nd-03-Lawn	92.6	86.7	89.2	87.9	86.3	88.8	91.3	98.3
410-226305-9	1640-52nd-03-House	93.5	88.3	87.5	86.4	92.6	89.9	96.4	102
410-226305-10	1833-52nd-04	93.9	87.2	86.9	85.5	89.0	94.5	85.9	100
410-226305-11	5321-County Rd-05	90.6	87.4	86.3	85.5	90.9	89.9	91.6	95.7
410-226305-12	MW-8	93.8	91.0	89.5	87.3	90.5	90.7	97.3	106
410-226305-13	DUP-1	86.4	80.1	79.7	79.9	85.9	84.3	84.9	94.6
410-226305-14	Field Blank	82.7	78.9	79.6	80.0	82.4	83.0	84.3	91.7
410-226305-15	MW-5	94.1	88.7	86.9	87.2	90.9	84.9	82.7	77.7
410-226305-16	MW-6	94.5	92.7	91.7	89.4	91.1	90.6	95.6	104
410-226305-17	MW-7	81.6	80.6	78.1	78.9	81.9	81.2	84.3	92.5
LCS 410-655288/2-A	Lab Control Sample	85.5	80.9	76.7	72.8	72.4	66.1	69.9	73.6
LCSD 410-655288/3-A	Lab Control Sample Dup	91.6	86.0	85.7	83.6	82.8	81.5	81.3	87.9
LLCS 410-655288/4-A	Lab Control Sample	90.6	86.1	81.2	81.0	77.2	73.9	82.5	88.7
MB 410-655288/1-A	Method Blank	90.4	82.9	79.2	78.7	76.3	75.4	74.3	83.5

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (10-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-170)	d5NEFOS (25-135)	M242FTS (40-200)
410-226305-1	4959-County Rd-06	80.4	94.9	91.4	90.6	77.8	86.3	73.0	109
410-226305-2	2053-49th-07	82.8	88.8	83.4	86.7	73.9	76.0	68.5	96.1
410-226305-3	1950-49th-08	84.9	83.8	82.3	85.6	72.2	84.2	68.9	92.1
410-226305-4	1881-49th-09	89.4	84.8	85.6	82.7	72.5	79.1	65.0	95.6
410-226305-5	DUP-02	88.7	93.0	87.4	91.4	77.6	86.2	72.3	97.7
410-226305-6	1710-54th-01	84.0	91.9	88.3	87.0	75.5	81.9	66.2	97.2
410-226305-7	1670-54th-02	78.5	93.1	88.7	87.9	76.5	78.6	67.3	104
410-226305-8	1640-52nd-03-Lawn	84.3	92.4	87.8	88.8	76.0	84.9	70.8	101
410-226305-9	1640-52nd-03-House	91.8	92.9	90.0	89.6	76.3	83.7	69.4	100
410-226305-10	1833-52nd-04	80.8	94.0	90.6	89.6	77.9	84.1	66.3	94.3
410-226305-11	5321-County Rd-05	90.0	87.9	85.6	88.3	76.8	84.1	73.1	96.1
410-226305-12	MW-8	90.1	91.4	88.4	89.5	83.7	90.3	92.4	101
410-226305-13	DUP-1	85.3	84.3	80.9	85.0	74.2	81.5	69.3	96.3
410-226305-14	Field Blank	85.4	82.2	81.4	81.8	67.9	79.2	65.9	85.4
410-226305-15	MW-5	9.03 *5- cn	91.6	86.2	82.8	77.2	75.2	61.0	92.4
410-226305-16	MW-6	64.0	91.8	90.0	89.2	84.3	96.2	85.1	106
410-226305-17	MW-7	81.1	81.5	80.0	82.9	71.0	79.3	69.2	93.0
LCS 410-655288/2-A	Lab Control Sample	60.5	67.6	64.4	66.8	65.6	67.6	57.0	82.2
LCSD 410-655288/3-A	Lab Control Sample Dup	77.9	83.1	81.1	84.5	72.9	81.8	68.1	92.9
LLCS 410-655288/4-A	Lab Control Sample	65.9	76.9	73.5	75.9	70.0	74.1	62.6	92.6
MB 410-655288/1-A	Method Blank	68.5	74.1	68.6	70.7	72.8	76.3	62.6	90.5

Isotope Dilution Summary

Client: AECOM

Job ID: 410-226305-1

Project/Site: PFAS TOP ASSAY

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Matrix: Water

Prep Type: Pre-Treatment

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		M262FTS (40-200)	M282FTS (40-300)	HFPODA (40-130)	NMFM (10-130)	NEFM (10-130)	d5NPFSA (10-130)	d3NMFSFA (10-130)	PFDaA (10-130)
410-226305-1	4959-County Rd-06	95.5	80.7	80.1	78.3	79.5	69.3	73.8	95.3
410-226305-2	2053-49th-07	91.2	79.6	83.3	73.5	75.9	65.7	69.4	86.5
410-226305-3	1950-49th-08	85.9	77.5	70.9	81.3	79.2	65.2	70.5	93.6
410-226305-4	1881-49th-09	88.4	77.8	77.7	77.0	73.2	67.2	71.9	88.7
410-226305-5	DUP-02	90.7	77.4	81.3	74.3	72.2	69.9	72.4	96.9
410-226305-6	1710-54th-01	92.7	82.0	77.2	74.1	69.2	66.1	70.1	92.9
410-226305-7	1670-54th-02	95.5	79.9	79.3	73.8	70.4	62.2	67.9	85.8
410-226305-8	1640-52nd-03-Lawn	95.1	82.5	80.4	72.6	70.9	68.5	73.1	96.0
410-226305-9	1640-52nd-03-House	94.2	83.5	79.9	76.4	72.5	69.8	73.1	96.4
410-226305-10	1833-52nd-04	91.2	80.9	86.9	76.7	74.3	67.6	72.2	90.6
410-226305-11	5321-County Rd-05	89.9	78.0	78.3	75.4	68.7	69.7	73.8	95.0
410-226305-12	MW-8	93.1	81.2	80.1	79.0	76.3	74.0	77.9	103
410-226305-13	DUP-1	88.1	78.7	73.2	76.1	73.8	67.1	72.6	90.2
410-226305-14	Field Blank	82.1	77.0	72.4	70.9	74.1	61.9	65.3	92.6
410-226305-15	MW-5	89.5	73.3	78.7	22.1	14.2	19.8	30.6	54.8
410-226305-16	MW-6	99.3	84.7	77.8	61.5	54.4	32.6	45.6	99.8
410-226305-17	MW-7	87.7	76.0	71.6	73.4	71.2	63.3	65.1	88.6
LCS 410-655288/2-A	Lab Control Sample	75.7	60.2	73.4	51.7	49.0	54.1	55.5	70.6
LCSD 410-655288/3-A	Lab Control Sample Dup	86.4	74.2	83.4	66.3	67.1	61.0	63.5	84.9
LLCS 410-655288/4-A	Lab Control Sample	84.9	70.9	78.8	50.2	45.9	59.4	61.3	86.1
MB 410-655288/1-A	Method Blank	78.0	65.1	74.8	65.4	63.2	62.7	63.1	80.1

Surrogate Legend

PFBA = 13C4-PFBA
 PFPeA = 13C5-PFPeA
 13C5PHA = 13C5-PFHxA
 C4PFHA = 13C4-PFHpA
 C8PFOA = 13C8-PFOA
 C9PFNA = 13C9-PFNA
 C6PFDA = 13C6-PFDA
 13C7PUA = 13C7-PFUnA
 PFTDA = 13C2-PFTeDA
 C3PFBS = 13C3-PFBS
 C3PFHS = 13C3-PFHxS
 C8PFOS = 13C8-PFOS
 PFOSA = 13C8-PFOSA
 d3NMFOA = d3-NMeFOA
 d5NEFOA = d5-NEtFOA
 M242FTS = 13C2-4:2 FTS
 M262FTS = 13C2-6:2 FTS
 M282FTS = 13C2-8:2 FTS
 HFPODA = 13C3-HFPO-DA
 NMFM = D7-NMeFOSE
 NEFM = D9-NEtFOSE
 d5NPFSA = d5-NEtPFOSA
 d3NMFSFA = d3-NMePFOSA
 PFDaA = 13C2 PFDaA

Isotope Dilution Summary

Client: AECOM

Job ID: 410-226305-1

Project/Site: PFAS TOP ASSAY

Method: 1633 TOPS - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Post-Treatment

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (10-130)	PFPeA (35-150)	13C5PHA (55-150)	C4PFHA (55-150)	C9PFNA (55-140)	C6PFDA (50-140)	13C7PUA (30-140)	PFDaA (10-150)
410-226305-1	4959-County Rd-06	90.5	95.2	101	94.6	89.2	94.9	96.4	88.1
410-226305-2	2053-49th-07	83.3	83.1	86.3	85.6	82.0	90.3	84.2	78.3
410-226305-3	1950-49th-08	93.4	90.7	99.9	95.5	90.1	99.9	95.3	83.6
410-226305-4	1881-49th-09	94.3	94.5	100	95.0	92.7	96.4	93.7	86.9
410-226305-5	DUP-02	93.9	94.5	97.3	97.4	95.8	100	100	73.6
410-226305-6	1710-54th-01	69.0	69.6	76.4	72.8	67.4	73.8	66.5	62.6
410-226305-7	1670-54th-02	87.1	89.2	96.1	94.1	82.0	95.6	89.4	85.8
410-226305-8	1640-52nd-03-Lawn	87.9	93.2	97.2	96.7	90.7	94.4	96.5	81.6
410-226305-9	1640-52nd-03-House	88.0	89.6	95.0	92.2	86.7	94.0	96.7	88.3
410-226305-10	1833-52nd-04	67.2	70.6	72.1	71.5	69.0	71.1	71.9	63.4
410-226305-11	5321-County Rd-05	87.0	86.0	92.5	86.5	83.0	87.3	81.8	75.7
410-226305-12	MW-8	74.9	78.5	80.9	77.1	82.0	84.3	77.3	70.9
410-226305-13	DUP-1	77.8	78.5	79.1	76.9	73.0	70.9	70.1	66.0
410-226305-14	Field Blank	86.7	88.2	92.0	90.4	86.2	90.3	87.6	80.7
410-226305-15	MW-5	90.8	91.6	95.6	95.8	88.9	94.2	94.6	83.9
410-226305-16	MW-6	91.1	95.4	97.5	93.3	89.9	102	96.5	88.2
410-226305-17	MW-7	82.7	81.9	85.2	85.0	79.3	86.0	83.0	77.7

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (10-130)	C3PFBS (55-150)	C3PFHS (55-150)	C8PFOS (45-140)	PFOSA (0-10)	d3NMFOS (45-200)	d5NEFOS (10-200)	M242FTS (60-200)
410-226305-1	4959-County Rd-06	78.7	90.9	94.7	99.1	0.414	119	133	97.9
410-226305-2	2053-49th-07	68.6	87.8	86.1	88.0	0.267	103	113	91.1
410-226305-3	1950-49th-08	77.1	92.9	95.5	98.4	0.316	113	134	96.8
410-226305-4	1881-49th-09	74.5	99.8	97.3	98.0	0.346	112	126	100
410-226305-5	DUP-02	86.2	101	99.0	106	0.330	121	132	100
410-226305-6	1710-54th-01	55.8	74.3	63.7	75.4	0.288	87.8	96.6	78.7
410-226305-7	1670-54th-02	80.5	92.0	88.1	97.3	0.725	111	124	90.7
410-226305-8	1640-52nd-03-Lawn	70.9	95.9	96.2	99.1	0.299	116	121	100
410-226305-9	1640-52nd-03-House	79.1	96.5	92.7	99.4	0.452	117	127	96.1
410-226305-10	1833-52nd-04	59.9	70.6	70.1	75.8	0.316	86.3	98.0	71.5
410-226305-11	5321-County Rd-05	64.1	85.9	85.2	88.4	0.658	104	123	89.6
410-226305-12	MW-8	63.8	76.0	76.9	86.0	0.893	98.1	112	76.6
410-226305-13	DUP-1	63.9	74.5	72.3	80.9	0.984	93.3	107	77.1
410-226305-14	Field Blank	72.2	91.4	91.6	96.1	0.398	112	125	94.9
410-226305-15	MW-5	81.6	95.3	95.1	100	0.500	113	122	91.6
410-226305-16	MW-6	84.2	94.5	95.5	99.8	0.843	111	120	93.7
410-226305-17	MW-7	76.1	85.8	85.2	92.0	0.559	106	111	87.3

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (60-200)	M282FTS (50-200)	HFPODA (25-160)	NMFM (10-150)	NEFM (10-150)	d5NPFSA (10-130)	d3NMFSA (15-130)	13PFOA (40-130)
410-226305-1	4959-County Rd-06	107	100	92.5	77.1	70.5	93.8	102	92.7
410-226305-2	2053-49th-07	99.8	94.7	78.6	58.3	55.1	76.2	82.1	86.1
410-226305-3	1950-49th-08	109	101	88.7	60.7	58.9	88.4	94.8	95.2
410-226305-4	1881-49th-09	115	98.5	89.4	67.9	71.2	83.7	90.6	94.1
410-226305-5	DUP-02	117	105	90.8	74.1	79.4	94.5	100	99.0
410-226305-6	1710-54th-01	86.4	79.3	68.0	53.4	54.8	61.8	64.9	71.3
410-226305-7	1670-54th-02	108	99.1	86.0	80.2	84.1	86.7	90.4	87.6
410-226305-8	1640-52nd-03-Lawn	111	101	84.6	62.2	57.0	80.6	88.6	95.2
410-226305-9	1640-52nd-03-House	105	106	85.6	70.9	68.9	84.8	87.2	89.6

Eurofins Lancaster Laboratories Environment Testing, LLC

Isotope Dilution Summary

Client: AECOM

Job ID: 410-226305-1

Project/Site: PFAS TOP ASSAY

Method: 1633 TOPS - Fluorinated Alkyl Substances (Continued)

Matrix: Water

Prep Type: Post-Treatment

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		M262FTS (60-200)	M282FTS (50-200)	HFPODA (25-160)	NMFM (10-150)	NEFM (10-150)	d5NPFSA (10-130)	d3NMFSA (15-130)	13PFOA (40-130)
410-226305-10	1833-52nd-04	83.4	75.1	66.0	66.3	66.5	65.0	69.6	68.3
410-226305-11	5321-County Rd-05	95.6	92.2	83.2	51.0	51.0	74.3	80.1	87.5
410-226305-12	MW-8	88.0	83.6	71.7	59.0	61.9	71.8	77.4	80.4
410-226305-13	DUP-1	82.1	79.1	72.4	67.6	65.6	67.6	72.3	73.7
410-226305-14	Field Blank	101	96.4	80.6	72.3	68.8	76.7	84.1	89.7
410-226305-15	MW-5	105	98.4	87.7	68.6	71.1	83.0	90.2	94.6
410-226305-16	MW-6	108	101	89.0	79.1	85.2	83.4	89.7	90.6
410-226305-17	MW-7	99.4	91.1	81.8	74.1	81.5	81.2	80.2	86.0

Surrogate Legend

PFBA = 13C4-PFBA
 PFPeA = 13C5-PFPeA
 13C5PHA = 13C5-PFHxA
 C4PFHA = 13C4-PFHpA
 C9PFNA = 13C9-PFNA
 C6PFDA = 13C6-PFDA
 13C7PUA = 13C7-PFUnA
 PFDaA = 13C2 PFDaA
 PFTDA = 13C2-PFTeDA
 C3PFBS = 13C3-PFBS
 C3PFHS = 13C3-PFHxS
 C8PFOS = 13C8-PFOS
 PFOSA = 13C8-PFOSA
 d3NMFOS = d3-NMeFOSAA
 d5NEFOS = d5-NEtFOSAA
 M242FTS = 13C2-4:2 FTS
 M262FTS = 13C2-6:2 FTS
 M282FTS = 13C2-8:2 FTS
 HFPODA = 13C3-HFPO-DA
 NMFM = D7-NMeFOSE
 NEFM = D9-NEtFOSE
 d5NPFSA = d5-NEtPFOSA
 d3NMFSA = d3-NMePFOSA
 13PFOA = 13C2 PFOA

Method: 1633 TOPS - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Post-Treatment

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA (10-130)	PFPeA (40-150)	13C5PHA (40-150)	C4PFHA (40-150)	C9PFNA (30-140)	C6PFDA (20-140)	13C7PUA (20-140)	PFDaA (10-150)
LCS 410-659410/2-A	Lab Control Sample	89.0	90.3	96.0	93.5	87.2	94.2	92.3	72.7
LCSD 410-659410/3-A	Lab Control Sample Dup	93.4	93.3	97.9	94.8	86.4	86.5	85.5	68.8
LLCS 410-659410/4-A	Lab Control Sample	88.7	87.1	93.9	91.3	90.1	96.5	92.1	77.6

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFTDA (10-130)	C3PFBS (25-150)	C3PFHS (25-150)	C8PFOS (20-140)	d3NMFOS (10-200)	d5NEFOS (10-200)	M242FTS (25-200)	M262FTS (25-200)
LCS 410-659410/2-A	Lab Control Sample	56.7	90.1	88.2	96.2	107	130	96.3	102
LCSD 410-659410/3-A	Lab Control Sample Dup	51.5	93.6	92.4	91.6	103	121	99.9	106
LLCS 410-659410/4-A	Lab Control Sample	61.6	90.8	91.9	95.6	113	140	95.5	107

Eurofins Lancaster Laboratories Environment Testing, LLC

Isotope Dilution Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633 TOPS - Fluorinated Alkyl Substances (Continued)

Matrix: Water

Prep Type: Post-Treatment

		Percent Isotope Dilution Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	M282FTS (25-200)	HFPODA (25-160)	NMFM (10-150)	NEFM (10-150)	d5NPFSA (10-130)	d3NMFSFA (10-130)	13PFOA (40-130)
LCS 410-659410/2-A	Lab Control Sample	102	88.2	74.8	81.8	83.0	82.6	92.6
LCSD 410-659410/3-A	Lab Control Sample Dup	94.8	90.6	70.6	71.6	77.7	79.2	91.1
LLCS 410-659410/4-A	Lab Control Sample	102	86.6	65.8	63.8	85.0	85.6	89.1
Surrogate Legend								
PFBA = 13C4-PFBA								
PFPeA = 13C5-PFPeA								
13C5PHA = 13C5-PFHxA								
C4PFHA = 13C4-PFHpA								
C9PFNA = 13C9-PFNA								
C6PFDA = 13C6-PFDA								
13C7PUA = 13C7-PFUnA								
PFDaA = 13C2 PFDaA								
PFTDA = 13C2-PFTeDA								
C3PFBS = 13C3-PFBS								
C3PFHS = 13C3-PFHxS								
C8PFOS = 13C8-PFOS								
d3NMFOS = d3-NMeFOSAA								
d5NEFOS = d5-NEtFOSAA								
M242FTS = 13C2-4:2 FTS								
M262FTS = 13C2-6:2 FTS								
M282FTS = 13C2-8:2 FTS								
HFPODA = 13C3-HFPO-DA								
NMFM = D7-NMeFOSE								
NEFM = D9-NEtFOSE								
d5NPFSA = d5-NEtPFOSA								
d3NMFSFA = d3-NMePFOSA								
13PFOA = 13C2 PFOA								

Method: 1633 TOPS - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Post-Treatment

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (10-130)	PFPeA (35-150)	13C5PHA (55-150)	C4PFHA (55-150)	C9PFNA (55-140)	C6PFDA (50-140)	13C7PUA (30-140)	PFD0A (10-150)
MB 410-659410/1-A	Method Blank	79.5	78.8	84.2	82.3	78.6	80.2	75.8	60.6
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (10-130)	C3PFBS (55-150)	C3PFHS (55-150)	C8PFOS (45-140)	PFOSA	d3NMFOS (45-200)	d5NEFOS (10-200)	M242FTS (60-200)
MB 410-659410/1-A	Method Blank	44.4	78.2	80.0	86.0		101	124	85.5
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (60-200)	M282FTS (50-200)	HFPODA (25-160)	NMFM (10-150)	NEFM (10-150)	d5NPFSA (10-130)	d3NMFSA (15-130)	13PFOA (40-130)
MB 410-659410/1-A	Method Blank	92.7	89.6	79.1	69.1	71.6	75.5	78.8	81.8
Surrogate Legend									
PFBA = 13C4-PFBA									
PFPeA = 13C5-PFPeA									
13C5PHA = 13C5-PFHxA									
C4PFHA = 13C4-PFHpA									
C9PFNA = 13C9-PFNA									

Eurofins Lancaster Laboratories Environment Testing, LLC

Isotope Dilution Summary

Client: AECOM

Job ID: 410-226305-1

Project/Site: PFAS TOP ASSAY

C6PFDA = 13C6-PFDA
 13C7PUA = 13C7-PFUnA
 PFDoA = 13C2 PFDoA
 PFTDA = 13C2-PFTeDA
 C3PFBS = 13C3-PFBS
 C3PFHS = 13C3-PFHxS
 C8PFOS = 13C8-PFOS
 PFOSA = 13C8-PFOSA
 d3NMFOS = d3-NMeFOSAA
 d5NEFOS = d5-NEtFOSAA
 M242FTS = 13C2-4:2 FTS
 M262FTS = 13C2-6:2 FTS
 M282FTS = 13C2-8:2 FTS
 HFPODA = 13C3-HFPO-DA
 NMFM = D7-NMeFOSE
 NEFM = D9-NEtFOSE
 d5NPFSA = d5-NEtPFOSA
 d3NMFSA = d3-NMePFOSA
 13PFOA = 13C2 PFOA

Method: 1633_BLT - Branched, Linear and Total PFAS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA (5-130)	PFPeA (40-130)	13C5PHA (40-130)	C4PFHA (40-130)	C8PFOA (40-130)	C9PFNA (40-130)	C6PFDA (40-130)	13C7PUA (30-130)
410-226305-1	4959-County Rd-06	100	107	98	98	97	99	91	81
410-226305-2	2053-49th-07	103	108	103	101	108	102	96	87
410-226305-3	1950-49th-08	107	111	116	109	109	106	109	104
410-226305-4	1881-49th-09	106	113	113	107	107	109	105	98
410-226305-5	DUP-02	105	106	102	101	103	95	101	92
410-226305-6	1710-54th-01	97	98	108	94	100	91	90	83
410-226305-7	1670-54th-02	102	111	110	104	110	107	107	102
410-226305-8	1640-52nd-03-Lawn	104	103	101	97	103	104	104	91
410-226305-9	1640-52nd-03-House	108	116	109	106	111	109	103	95
410-226305-10	1833-52nd-04	106	106	107	101	106	106	100	92
410-226305-11	5321-County Rd-05	107	112	109	99	101	103	108	91
410-226305-12	MW-8	87	88	90	88	88	91	88	86
410-226305-13	DUP-1	85	90	92	91	94	97	90	83
410-226305-14	Field Blank	82	78	82	79	81	84	78	81
410-226305-15	MW-5	99	104	97	102	105	102	102	94
410-226305-16	MW-6	105	114	117	108	116	114	112	105
410-226305-17	MW-7	97	105	100	99	102	99	107	95
LCS 410-665609/19-A	Lab Control Sample	99	95	101	99	92	88	88	85
LCSD 410-665609/20-A	Lab Control Sample Dup	106	105	104	101	104	98	102	97
LLCS 410-665609/21-A	Lab Control Sample	97	97	100	96	97	94	94	88
MB 410-665609/18-A	Method Blank	99	96	101	92	94	95	94	92

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDoA (10-130)	PFTDA (10-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-170)	d5NEFOS (25-135)
410-226305-1	4959-County Rd-06	80	68	97	102	101	92	100	97
410-226305-2	2053-49th-07	81	70	105	99	100	85	94	85
410-226305-3	1950-49th-08	97	86	109	109	112	102	108	104
410-226305-4	1881-49th-09	91	79	103	106	95	86	86	94
410-226305-5	DUP-02	86	79	102	106	104	91	100	97
410-226305-6	1710-54th-01	80	72	94	94	101	81	90	88

Eurofins Lancaster Laboratories Environment Testing, LLC

Isotope Dilution Summary

Client: AECOM

Job ID: 410-226305-1

Project/Site: PFAS TOP ASSAY

Method: 1633_BLT - Branched, Linear and Total PFAS (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFD _o A (10-130)	PFTDA (10-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-170)	d5NEFOS (25-135)
410-226305-7	1670-54th-02	103	93	100	106	107	98	110	108
410-226305-8	1640-52nd-03-Lawn	88	81	103	98	105	93	99	97
410-226305-9	1640-52nd-03-House	91	79	101	103	102	96	100	99
410-226305-10	1833-52nd-04	87	79	103	106	99	88	97	89
410-226305-11	5321-County Rd-05	90	85	102	102	107	95	106	103
410-226305-12	MW-8	84	86	89	85	91	79	87	89
410-226305-13	DUP-1	79	77	86	94	97	85	91	87
410-226305-14	Field Blank	80	75	81	81	80	70	79	78
410-226305-15	MW-5	94	92	98	103	102	91	84	98
410-226305-16	MW-6	100	96	106	108	109	103	110	112
410-226305-17	MW-7	97	95	101	97	104	86	95	95
LCS 410-665609/19-A	Lab Control Sample	86	70	86	87	92	81	87	85
LCSD 410-665609/20-A	Lab Control Sample Dup	100	87	94	98	102	93	98	100
LLCS 410-665609/21-A	Lab Control Sample	85	85	97	99	94	80	86	88
MB 410-665609/18-A	Method Blank	88	78	93	89	98	85	93	93
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (40-200)	M262FTS (40-200)	M282FTS (40-300)	HFPODA (40-130)	NMFM (10-130)	NEFM (10-130)	d5NPFSA (10-130)	d3NMFSA (10-130)
410-226305-1	4959-County Rd-06	96	104	95	97	72	62	56	57
410-226305-2	2053-49th-07	102	109	96	103	66	60	55	58
410-226305-3	1950-49th-08	103	117	103	103	72	63	63	63
410-226305-4	1881-49th-09	102	112	98	104	66	60	52	55
410-226305-5	DUP-02	98	111	95	102	67	64	60	58
410-226305-6	1710-54th-01	97	106	87	95	63	59	53	54
410-226305-7	1670-54th-02	104	113	98	107	79	71	69	71
410-226305-8	1640-52nd-03-Lawn	99	115	97	101	75	69	71	72
410-226305-9	1640-52nd-03-House	102	113	98	106	78	70	69	66
410-226305-10	1833-52nd-04	104	115	100	101	76	68	68	70
410-226305-11	5321-County Rd-05	104	110	97	106	85	78	66	68
410-226305-12	MW-8	89	94	84	93	78	75	65	62
410-226305-13	DUP-1	89	104	90	91	65	62	63	62
410-226305-14	Field Blank	85	92	85	76	72	71	52	50
410-226305-15	MW-5	97	108	95	99	85	83	74	75
410-226305-16	MW-6	107	120	104	101	90	85	75	75
410-226305-17	MW-7	97	104	90	96	77	72	67	66
LCS 410-665609/19-A	Lab Control Sample	92	95	84	96	71	62	66	66
LCSD 410-665609/20-A	Lab Control Sample Dup	106	110	93	105	91	79	77	81
LLCS 410-665609/21-A	Lab Control Sample	98	107	96	96	64	54	64	66
MB 410-665609/18-A	Method Blank	96	98	91	94	77	70	68	63

Surrogate Legend

PFBA = 13C4 PFBA

PFP_oA = 13C5 PFP_oA

13C5PHA = 13C5 PFH_xA

C4PFHA = 13C4 PFH_pA

C8PFOA = 13C8 PFOA

C9PFNA = 13C9 PFNA

C6PFDA = 13C6 PFDA

13C7PUA = 13C7 PFU_nA

PFD_oA = 13C2 PFD_oA

Eurofins Lancaster Laboratories Environment Testing, LLC

Isotope Dilution Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS
- C3PFHS = 13C3 PFHxS
- C8PFOS = 13C8 PFOS
- PFOSA = 13C8 FOSA
- d3NMFOS = d3-NMeFOSAA
- d5NEFOS = d5-NEtFOSAA
- M242FTS = 13C2 4:2 FTS
- M262FTS = 13C2 6:2 FTS
- M282FTS = 13C2 8:2 FTS
- HFPODA = 13C3 HFPO-DA
- NMFM = d7-N-MeFOSE-M
- NEFM = d9-N-EtFOSE-M
- d5NPFSA = d5-NEtPFOSA
- d3NMFSA = d3-NMePFOSA

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QC Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 410-655288/1-A

Matrix: Water

Analysis Batch: 656521

Client Sample ID: Method Blank

Prep Type: Pre-Treatment

Prep Batch: 655288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<1.1		4.0	1.1	ng/L		06/11/25 06:46	06/12/25 18:31	1
Perfluoropentanoic acid (PFPA)	<0.60		2.0	0.60	ng/L		06/11/25 06:46	06/12/25 18:31	1
Perfluorohexanoic acid (PFHxA)	<0.50		2.0	0.50	ng/L		06/11/25 06:46	06/12/25 18:31	1
Perfluoroheptanoic acid (PFHpA)	<0.80		2.0	0.80	ng/L		06/11/25 06:46	06/12/25 18:31	1
Perfluorooctanoic acid (PFOA)	<0.90		2.0	0.90	ng/L		06/11/25 06:46	06/12/25 18:31	1
Perfluorononanoic acid (PFNA)	<0.50		2.0	0.50	ng/L		06/11/25 06:46	06/12/25 18:31	1
Perfluorodecanoic acid (PFDA)	<0.50		2.0	0.50	ng/L		06/11/25 06:46	06/12/25 18:31	1
Perfluoroundecanoic acid (PFUnA)	<0.50		2.0	0.50	ng/L		06/11/25 06:46	06/12/25 18:31	1
Perfluorododecanoic acid (PFDoA)	<0.50		2.0	0.50	ng/L		06/11/25 06:46	06/12/25 18:31	1
Perfluorotridecanoic acid (PFTriDA)	<0.50		2.0	0.50	ng/L		06/11/25 06:46	06/12/25 18:31	1
Perfluorotetradecanoic acid (PFTeDA)	<0.50		2.0	0.50	ng/L		06/11/25 06:46	06/12/25 18:31	1
Perfluorobutanesulfonic acid (PFBS)	<0.50		2.0	0.50	ng/L		06/11/25 06:46	06/12/25 18:31	1
Perfluoropentanesulfonic acid (PFPeS)	<0.50		2.0	0.50	ng/L		06/11/25 06:46	06/12/25 18:31	1
Perfluorohexanesulfonic acid (PFHxS)	<0.80		2.0	0.80	ng/L		06/11/25 06:46	06/12/25 18:31	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.50		2.0	0.50	ng/L		06/11/25 06:46	06/12/25 18:31	1
Perfluorooctanesulfonic acid (PFOS)	<1.3		2.0	1.3	ng/L		06/11/25 06:46	06/12/25 18:31	1
Perfluorononanesulfonic acid (PFNS)	<0.50		2.0	0.50	ng/L		06/11/25 06:46	06/12/25 18:31	1
Perfluorodecanesulfonic acid (PFDS)	<0.50		2.0	0.50	ng/L		06/11/25 06:46	06/12/25 18:31	1
Perfluorododecanesulfonic acid (PFDoS)	<0.60		2.0	0.60	ng/L		06/11/25 06:46	06/12/25 18:31	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<1.0		4.0	1.0	ng/L		06/11/25 06:46	06/12/25 18:31	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<1.0		4.0	1.0	ng/L		06/11/25 06:46	06/12/25 18:31	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<1.0		4.0	1.0	ng/L		06/11/25 06:46	06/12/25 18:31	1
Perfluorooctanesulfonamide (PFOSA)	<0.50		2.0	0.50	ng/L		06/11/25 06:46	06/12/25 18:31	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.50		2.0	0.50	ng/L		06/11/25 06:46	06/12/25 18:31	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<0.50		2.0	0.50	ng/L		06/11/25 06:46	06/12/25 18:31	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.50		2.0	0.50	ng/L		06/11/25 06:46	06/12/25 18:31	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.50		2.0	0.50	ng/L		06/11/25 06:46	06/12/25 18:31	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<2.5		10	2.5	ng/L		06/11/25 06:46	06/12/25 18:31	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<4.0		10	4.0	ng/L		06/11/25 06:46	06/12/25 18:31	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.4		2.0	1.4	ng/L		06/11/25 06:46	06/12/25 18:31	1
4,8-Dioxo-3H-perfluorononanoic acid (DONA)	<0.50		2.0	0.50	ng/L		06/11/25 06:46	06/12/25 18:31	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.50		2.0	0.50	ng/L		06/11/25 06:46	06/12/25 18:31	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.50		2.0	0.50	ng/L		06/11/25 06:46	06/12/25 18:31	1
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	<0.50		2.0	0.50	ng/L		06/11/25 06:46	06/12/25 18:31	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.50		2.0	0.50	ng/L		06/11/25 06:46	06/12/25 18:31	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-655288/1-A

Matrix: Water

Analysis Batch: 656521

Client Sample ID: Method Blank

Prep Type: Pre-Treatment

Prep Batch: 655288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11CI-PF3OUdS)	<0.50		2.0	0.50	ng/L		06/11/25 06:46	06/12/25 18:31	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.50		2.0	0.50	ng/L		06/11/25 06:46	06/12/25 18:31	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<1.0		4.0	1.0	ng/L		06/11/25 06:46	06/12/25 18:31	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.8		10	2.8	ng/L		06/11/25 06:46	06/12/25 18:31	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<2.5		10	2.5	ng/L		06/11/25 06:46	06/12/25 18:31	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	90.4		5 - 130	06/11/25 06:46	06/12/25 18:31	1
13C5-PFPeA	82.9		40 - 130	06/11/25 06:46	06/12/25 18:31	1
13C5-PFHxA	79.2		40 - 130	06/11/25 06:46	06/12/25 18:31	1
13C4-PFHpA	78.7		40 - 130	06/11/25 06:46	06/12/25 18:31	1
13C8-PFOA	76.3		40 - 130	06/11/25 06:46	06/12/25 18:31	1
13C9-PFNA	75.4		40 - 130	06/11/25 06:46	06/12/25 18:31	1
13C6-PFDA	74.3		40 - 130	06/11/25 06:46	06/12/25 18:31	1
13C7-PFUnA	83.5		30 - 130	06/11/25 06:46	06/12/25 18:31	1
13C2-PFTeDA	68.5		10 - 130	06/11/25 06:46	06/12/25 18:31	1
13C3-PFBS	74.1		40 - 135	06/11/25 06:46	06/12/25 18:31	1
13C3-PFHxS	68.6		40 - 130	06/11/25 06:46	06/12/25 18:31	1
13C8-PFOS	70.7		40 - 130	06/11/25 06:46	06/12/25 18:31	1
13C8-PFOSA	72.8		40 - 130	06/11/25 06:46	06/12/25 18:31	1
d3-NMeFOSAA	76.3		40 - 170	06/11/25 06:46	06/12/25 18:31	1
d5-NEtFOSAA	62.6		25 - 135	06/11/25 06:46	06/12/25 18:31	1
13C2-4:2 FTS	90.5		40 - 200	06/11/25 06:46	06/12/25 18:31	1
13C2-6:2 FTS	78.0		40 - 200	06/11/25 06:46	06/12/25 18:31	1
13C2-8:2 FTS	65.1		40 - 300	06/11/25 06:46	06/12/25 18:31	1
13C3-HFPO-DA	74.8		40 - 130	06/11/25 06:46	06/12/25 18:31	1
D7-NMeFOSE	65.4		10 - 130	06/11/25 06:46	06/12/25 18:31	1
D9-NEtFOSE	63.2		10 - 130	06/11/25 06:46	06/12/25 18:31	1
d5-NEtPFOSA	62.7		10 - 130	06/11/25 06:46	06/12/25 18:31	1
d3-NMePFOSA	63.1		10 - 130	06/11/25 06:46	06/12/25 18:31	1
13C2 PFDoA	80.1		10 - 130	06/11/25 06:46	06/12/25 18:31	1

Lab Sample ID: LCS 410-655288/2-A

Matrix: Water

Analysis Batch: 656521

Client Sample ID: Lab Control Sample

Prep Type: Pre-Treatment

Prep Batch: 655288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	80.0	72.5		ng/L		91	70 - 140
Perfluoropentanoic acid (PFPA)	40.0	36.0		ng/L		90	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	35.8		ng/L		90	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	39.3		ng/L		98	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	37.2		ng/L		93	70 - 150
Perfluorononanoic acid (PFNA)	40.0	36.5		ng/L		91	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	35.8		ng/L		89	70 - 140

QC Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-655288/2-A

Matrix: Water

Analysis Batch: 656521

Client Sample ID: Lab Control Sample

Prep Type: Pre-Treatment

Prep Batch: 655288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	40.0	36.5		ng/L		91	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	35.2		ng/L		88	70 - 140
Perfluorotridecanoic acid (PFTrDA)	40.0	37.4		ng/L		93	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	31.7		ng/L		79	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.5	32.5		ng/L		92	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.6	35.6		ng/L		95	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.5	33.3		ng/L		91	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	38.2	32.5		ng/L		85	70 - 150
Perfluorooctanesulfonic acid (PFOS)	37.2	32.4		ng/L		87	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.5	32.7		ng/L		85	65 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	32.6		ng/L		85	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.8	25.5		ng/L		66	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.0	67.9		ng/L		91	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	66.0		ng/L		87	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	70.8		ng/L		92	60 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	40.7		ng/L		102	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	42.0		ng/L		105	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	41.3		ng/L		103	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	38.7		ng/L		97	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	35.6		ng/L		89	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	184		ng/L		92	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	179		ng/L		90	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	29.0		ng/L		97	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	37.8	34.9		ng/L		92	65 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	37.6		ng/L		94	55 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	37.5		ng/L		94	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	36.2		ng/L		91	50 - 150

QC Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-655288/2-A

Matrix: Water

Analysis Batch: 656521

Client Sample ID: Lab Control Sample

Prep Type: Pre-Treatment

Prep Batch: 655288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	37.4	30.6		ng/L		82	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	37.8	29.7		ng/L		79	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	35.7	29.7		ng/L		83	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	69.4		ng/L		87	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	158		ng/L		79	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	153		ng/L		76	50 - 145

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4-PFBA	85.5		5 - 130
13C5-PFPeA	80.9		40 - 130
13C5-PFHxA	76.7		40 - 130
13C4-PFHpA	72.8		40 - 130
13C8-PFOA	72.4		40 - 130
13C9-PFNA	66.1		40 - 130
13C6-PFDA	69.9		40 - 130
13C7-PFUnA	73.6		30 - 130
13C2-PFTeDA	60.5		10 - 130
13C3-PFBS	67.6		40 - 135
13C3-PFHxS	64.4		40 - 130
13C8-PFOS	66.8		40 - 130
13C8-PFOSA	65.6		40 - 130
d3-NMeFOSAA	67.6		40 - 170
d5-NEtFOSAA	57.0		25 - 135
13C2-4:2 FTS	82.2		40 - 200
13C2-6:2 FTS	75.7		40 - 200
13C2-8:2 FTS	60.2		40 - 300
13C3-HFPO-DA	73.4		40 - 130
D7-NMeFOSE	51.7		10 - 130
D9-NEtFOSE	49.0		10 - 130
d5-NEtPFOSA	54.1		10 - 130
d3-NMePFOSA	55.5		10 - 130
13C2 PFDoA	70.6		10 - 130

Lab Sample ID: LCSD 410-655288/3-A

Matrix: Water

Analysis Batch: 656521

Client Sample ID: Lab Control Sample Dup

Prep Type: Pre-Treatment

Prep Batch: 655288

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Perfluorobutanoic acid (PFBA)	80.0	72.4		ng/L		90	70 - 140	0	30
Perfluoropentanoic acid (PFPA)	40.0	37.0		ng/L		92	65 - 135	3	30
Perfluorohexanoic acid (PFHxA)	40.0	35.3		ng/L		88	70 - 145	2	30
Perfluoroheptanoic acid (PFHpA)	40.0	39.5		ng/L		99	70 - 150	1	30
Perfluorooctanoic acid (PFOA)	40.0	37.3		ng/L		93	70 - 150	0	30

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QC Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCSD 410-655288/3-A

Matrix: Water

Analysis Batch: 656521

Client Sample ID: Lab Control Sample Dup

Prep Type: Pre-Treatment

Prep Batch: 655288

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec		RPD	
	Added	Result	Qualifier				Limits		RPD	Limit
Perfluorononanoic acid (PFNA)	40.0	36.3		ng/L		91	70 - 150		0	30
Perfluorodecanoic acid (PFDA)	40.0	35.6		ng/L		89	70 - 140		0	30
Perfluoroundecanoic acid (PFUnA)	40.0	37.6		ng/L		94	70 - 145		3	30
Perfluorododecanoic acid (PFDoA)	40.0	37.4		ng/L		93	70 - 140		6	30
Perfluorotridecanoic acid (PFTrDA)	40.0	39.5		ng/L		99	65 - 140		6	30
Perfluorotetradecanoic acid (PFTeDA)	40.0	33.4		ng/L		84	60 - 140		5	30
Perfluorobutanesulfonic acid (PFBS)	35.5	32.4		ng/L		91	60 - 145		0	30
Perfluoropentanesulfonic acid (PFPeS)	37.6	35.6		ng/L		95	65 - 140		0	30
Perfluorohexanesulfonic acid (PFHxS)	36.5	32.5		ng/L		89	65 - 145		3	30
Perfluoroheptanesulfonic acid (PFHpS)	38.2	32.3		ng/L		85	70 - 150		1	30
Perfluorooctanesulfonic acid (PFOS)	37.2	32.6		ng/L		88	55 - 150		0	30
Perfluorononanesulfonic acid (PFNS)	38.5	31.4		ng/L		82	65 - 145		4	30
Perfluorodecanesulfonic acid (PFDS)	38.6	31.9		ng/L		83	60 - 145		2	30
Perfluorododecanesulfonic acid (PFDoS)	38.8	29.5		ng/L		76	50 - 145		15	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.0	66.7		ng/L		89	70 - 145		2	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	67.8		ng/L		89	65 - 155		3	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	71.9		ng/L		94	60 - 150		2	30
Perfluorooctanesulfonamide (PFOSA)	40.0	41.0		ng/L		103	70 - 145		1	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	41.0		ng/L		102	60 - 150		2	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	39.9		ng/L		100	65 - 145		3	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	38.7		ng/L		97	50 - 140		0	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	38.3		ng/L		96	70 - 145		7	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	186		ng/L		93	70 - 145		1	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	176		ng/L		88	70 - 135		2	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	27.8		ng/L		93	70 - 140		4	30
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	37.8	35.1		ng/L		93	65 - 145		1	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	37.9		ng/L		95	55 - 140		1	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	37.9		ng/L		95	60 - 150		1	30

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCSD 410-655288/3-A

Matrix: Water

Analysis Batch: 656521

Client Sample ID: Lab Control Sample Dup

Prep Type: Pre-Treatment

Prep Batch: 655288

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	36.3		ng/L		91	50 - 150	0	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	37.4	33.2		ng/L		89	70 - 155	8	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	37.8	31.3		ng/L		83	55 - 160	5	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	35.7	33.3		ng/L		93	70 - 140	11	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	70.3		ng/L		88	65 - 130	1	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	153		ng/L		77	70 - 135	3	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	151		ng/L		76	50 - 145	1	30
Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits						
13C4-PFBA	91.6		5 - 130						
13C5-PFPeA	86.0		40 - 130						
13C5-PFHxA	85.7		40 - 130						
13C4-PFHpA	83.6		40 - 130						
13C8-PFOA	82.8		40 - 130						
13C9-PFNA	81.5		40 - 130						
13C6-PFDA	81.3		40 - 130						
13C7-PFUnA	87.9		30 - 130						
13C2-PFTeDA	77.9		10 - 130						
13C3-PFBS	83.1		40 - 135						
13C3-PFHxS	81.1		40 - 130						
13C8-PFOS	84.5		40 - 130						
13C8-PFOSA	72.9		40 - 130						
d3-NMeFOSAA	81.8		40 - 170						
d5-NEtFOSAA	68.1		25 - 135						
13C2-4:2 FTS	92.9		40 - 200						
13C2-6:2 FTS	86.4		40 - 200						
13C2-8:2 FTS	74.2		40 - 300						
13C3-HFPO-DA	83.4		40 - 130						
D7-NMeFOSE	66.3		10 - 130						
D9-NEtFOSE	67.1		10 - 130						
d5-NEtPFOSA	61.0		10 - 130						
d3-NMePFOSA	63.5		10 - 130						
13C2 PFDoA	84.9		10 - 130						

Lab Sample ID: LLCS 410-655288/4-A

Matrix: Water

Analysis Batch: 656521

Client Sample ID: Lab Control Sample

Prep Type: Pre-Treatment

Prep Batch: 655288

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	7.49		ng/L		94	70 - 140
Perfluoropentanoic acid (PFPA)	4.00	4.23		ng/L		106	65 - 135
Perfluorohexanoic acid (PFHxA)	4.00	3.83		ng/L		96	70 - 145

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-655288/4-A

Matrix: Water

Analysis Batch: 656521

Client Sample ID: Lab Control Sample

Prep Type: Pre-Treatment

Prep Batch: 655288

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanoic acid (PFHpA)	4.00	3.91		ng/L		98	70 - 150
Perfluorooctanoic acid (PFOA)	4.00	4.36		ng/L		109	70 - 150
Perfluorononanoic acid (PFNA)	4.00	4.05		ng/L		101	70 - 150
Perfluorodecanoic acid (PFDA)	4.00	3.85		ng/L		96	70 - 140
Perfluoroundecanoic acid (PFUnA)	4.00	3.76		ng/L		94	70 - 145
Perfluorododecanoic acid (PFDoA)	4.00	3.59		ng/L		90	70 - 140
Perfluorotridecanoic acid (PFTrDA)	4.00	4.00		ng/L		100	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	4.00	4.23		ng/L		106	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.55	3.38		ng/L		95	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.76	3.89		ng/L		104	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	3.65	3.69		ng/L		101	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	3.82	3.01		ng/L		79	70 - 150
Perfluorooctanesulfonic acid (PFOS)	3.72	3.75		ng/L		101	55 - 150
Perfluorononanesulfonic acid (PFNS)	3.85	3.67		ng/L		95	65 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	3.28		ng/L		85	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.88	2.64		ng/L		68	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.50	6.68		ng/L		89	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.62	6.70		ng/L		88	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.68	6.78		ng/L		88	60 - 150
Perfluorooctanesulfonamide (PFOSA)	4.00	3.96		ng/L		99	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	4.00	4.19		ng/L		105	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4.00	4.00		ng/L		100	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.00	3.95		ng/L		99	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.00	3.94		ng/L		98	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	18.5		ng/L		93	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	18.5		ng/L		93	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	3.00	2.98		ng/L		99	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	3.78	3.75		ng/L		99	65 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	3.91		ng/L		98	55 - 140

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-655288/4-A

Matrix: Water

Analysis Batch: 656521

Client Sample ID: Lab Control Sample

Prep Type: Pre-Treatment

Prep Batch: 655288

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	3.72		ng/L		93	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	3.69		ng/L		92	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	3.74	3.27		ng/L		87	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	3.78	3.18		ng/L		84	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	3.57	3.25		ng/L		91	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	8.00	6.52		ng/L		82	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	20.0	16.6		ng/L		83	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	20.0	13.8		ng/L		69	50 - 145

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C4-PFBA	90.6		5 - 130
13C5-PFPeA	86.1		40 - 130
13C5-PFHxA	81.2		40 - 130
13C4-PFHpA	81.0		40 - 130
13C8-PFOA	77.2		40 - 130
13C9-PFNA	73.9		40 - 130
13C6-PFDA	82.5		40 - 130
13C7-PFUnA	88.7		30 - 130
13C2-PFTeDA	65.9		10 - 130
13C3-PFBS	76.9		40 - 135
13C3-PFHxS	73.5		40 - 130
13C8-PFOS	75.9		40 - 130
13C8-PFOSA	70.0		40 - 130
d3-NMeFOSAA	74.1		40 - 170
d5-NEtFOSAA	62.6		25 - 135
13C2-4:2 FTS	92.6		40 - 200
13C2-6:2 FTS	84.9		40 - 200
13C2-8:2 FTS	70.9		40 - 300
13C3-HFPO-DA	78.8		40 - 130
D7-NMeFOSE	50.2		10 - 130
D9-NEtFOSE	45.9		10 - 130
d5-NEtPFOSA	59.4		10 - 130
d3-NMePFOSA	61.3		10 - 130
13C2 PFDoA	86.1		10 - 130

QC Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633 TOPS - Fluorinated Alkyl Substances

Lab Sample ID: MB 410-659410/1-A
Matrix: Water
Analysis Batch: 661468

Client Sample ID: Method Blank
Prep Type: Post-Treatment
Prep Batch: 659410

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<5.5		20	5.5	ng/L		06/18/25 10:41	06/20/25 15:13	1
Perfluoropentanoic acid (PFPA)	<3.0		10	3.0	ng/L		06/18/25 10:41	06/20/25 15:13	1
Perfluorohexanoic acid (PFHxA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 15:13	1
Perfluoroheptanoic acid (PFHpA)	<4.0		10	4.0	ng/L		06/18/25 10:41	06/20/25 15:13	1
Perfluorooctanoic acid (PFOA)	<4.5		10	4.5	ng/L		06/18/25 10:41	06/20/25 15:13	1
Perfluorononanoic acid (PFNA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 15:13	1
Perfluorodecanoic acid (PFDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 15:13	1
Perfluoroundecanoic acid (PFUnA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 15:13	1
Perfluorododecanoic acid (PFDoA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 15:13	1
Perfluorotridecanoic acid (PFTeDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 15:13	1
Perfluorotetradecanoic acid (PFTeDA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 15:13	1
Perfluorobutanesulfonic acid (PFBS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 15:13	1
Perfluoropentanesulfonic acid (PFPeS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 15:13	1
Perfluorohexanesulfonic acid (PFHxS)	<4.0		10	4.0	ng/L		06/18/25 10:41	06/20/25 15:13	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 15:13	1
Perfluorooctanesulfonic acid (PFOS)	<6.5		10	6.5	ng/L		06/18/25 10:41	06/20/25 15:13	1
Perfluorononanesulfonic acid (PFNS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 15:13	1
Perfluorododecanesulfonic acid (PFDoS)	<3.0		10	3.0	ng/L		06/18/25 10:41	06/20/25 15:13	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 15:13	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 15:13	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 15:13	1
Perfluorooctanesulfonamide (PFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 15:13	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 15:13	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 15:13	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 15:13	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 15:13	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<13		50	13	ng/L		06/18/25 10:41	06/20/25 15:13	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<20		50	20	ng/L		06/18/25 10:41	06/20/25 15:13	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<7.0		10	7.0	ng/L		06/18/25 10:41	06/20/25 15:13	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 15:13	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 15:13	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 15:13	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 15:13	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9CI-PF3ONS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 15:13	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633 TOPS - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 410-659410/1-A

Matrix: Water

Analysis Batch: 661468

Client Sample ID: Method Blank

Prep Type: Post-Treatment

Prep Batch: 659410

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 15:13	1
e-1-sulfonic acid (11CI-PF3OUdS)									
Perfluoro (2-ethoxyethane) sulfonic	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 15:13	1
acid (PFEESA)									
3-Perfluoropropylpropanoic acid (3:3	<5.0		20	5.0	ng/L		06/18/25 10:41	06/20/25 15:13	1
FTCA)									
3-Perfluoropentylpropanoic acid (5:3	<14		50	14	ng/L		06/18/25 10:41	06/20/25 15:13	1
FTCA)									
3-Perfluoroheptylpropanoic acid (7:3	<13		50	13	ng/L		06/18/25 10:41	06/20/25 15:13	1
FTCA)									
Perfluorodecanesulfonic acid (PFDS)	<2.5		10	2.5	ng/L		06/18/25 10:41	06/20/25 15:13	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFBA	79.5		10 - 130	06/18/25 10:41	06/20/25 15:13	1
13C5-PFPeA	78.8		35 - 150	06/18/25 10:41	06/20/25 15:13	1
13C5-PFHxA	84.2		55 - 150	06/18/25 10:41	06/20/25 15:13	1
13C4-PFHpA	82.3		55 - 150	06/18/25 10:41	06/20/25 15:13	1
13C9-PFNA	78.6		55 - 140	06/18/25 10:41	06/20/25 15:13	1
13C6-PFDA	80.2		50 - 140	06/18/25 10:41	06/20/25 15:13	1
13C7-PFUnA	75.8		30 - 140	06/18/25 10:41	06/20/25 15:13	1
13C2 PFDoA	60.6		10 - 150	06/18/25 10:41	06/20/25 15:13	1
13C2-PFTeDA	44.4		10 - 130	06/18/25 10:41	06/20/25 15:13	1
13C3-PFBS	78.2		55 - 150	06/18/25 10:41	06/20/25 15:13	1
13C3-PFHxS	80.0		55 - 150	06/18/25 10:41	06/20/25 15:13	1
13C8-PFOS	86.0		45 - 140	06/18/25 10:41	06/20/25 15:13	1
13C8-PFOSA				06/18/25 10:41	06/20/25 15:13	1
d3-NMeFOSAA	101		45 - 200	06/18/25 10:41	06/20/25 15:13	1
d5-NEtFOSAA	124		10 - 200	06/18/25 10:41	06/20/25 15:13	1
13C2-4:2 FTS	85.5		60 - 200	06/18/25 10:41	06/20/25 15:13	1
13C2-6:2 FTS	92.7		60 - 200	06/18/25 10:41	06/20/25 15:13	1
13C2-8:2 FTS	89.6		50 - 200	06/18/25 10:41	06/20/25 15:13	1
13C3-HFPO-DA	79.1		25 - 160	06/18/25 10:41	06/20/25 15:13	1
D7-NMeFOSE	69.1		10 - 150	06/18/25 10:41	06/20/25 15:13	1
D9-NEtFOSE	71.6		10 - 150	06/18/25 10:41	06/20/25 15:13	1
d5-NEtPFOSA	75.5		10 - 130	06/18/25 10:41	06/20/25 15:13	1
d3-NMePFOSA	78.8		15 - 130	06/18/25 10:41	06/20/25 15:13	1
13C2 PFOA	81.8		40 - 130	06/18/25 10:41	06/20/25 15:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA				06/18/25 10:41	06/20/25 15:13	1
M3PFPeA				06/18/25 10:41	06/20/25 15:13	1

Lab Sample ID: LCS 410-659410/2-A

Matrix: Water

Analysis Batch: 661468

Client Sample ID: Lab Control Sample

Prep Type: Post-Treatment

Prep Batch: 659410

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	400	398		ng/L		100	58 - 148
Perfluoropentanoic acid (PFPA)	200	195		ng/L		97	54 - 152
Perfluorohexanoic acid (PFHxA)	200	180		ng/L		90	55 - 152

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633 TOPS - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 410-659410/2-A

Matrix: Water

Analysis Batch: 661468

Client Sample ID: Lab Control Sample

Prep Type: Post-Treatment

Prep Batch: 659410

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanoic acid (PFHpA)	200	193		ng/L		97	54 - 154
Perfluorooctanoic acid (PFOA)	200	186		ng/L		93	52 - 161
Perfluorononanoic acid (PFNA)	200	203		ng/L		102	59 - 149
Perfluorodecanoic acid (PFDA)	200	177		ng/L		88	52 - 147
Perfluoroundecanoic acid (PFUnA)	200	170		ng/L		85	48 - 159
Perfluorododecanoic acid (PFDoA)	200	178		ng/L		89	64 - 142
Perfluorotridecanoic acid (PFTrDA)	200	171		ng/L		85	49 - 148
Perfluorotetradecanoic acid (PFTeDA)	200	192		ng/L		96	47 - 161
Perfluorobutanesulfonic acid (PFBS)	178	164		ng/L		92	62 - 144
Perfluoropentanesulfonic acid (PFPeS)	188	175		ng/L		93	59 - 151
Perfluorohexanesulfonic acid (PFHxS)	182	166		ng/L		91	57 - 146
Perfluoroheptanesulfonic acid (PFHpS)	191	169		ng/L		89	55 - 152
Perfluorooctanesulfonic acid (PFOS)	186	167		ng/L		90	58 - 149
Perfluorononanesulfonic acid (PFNS)	192	167		ng/L		87	52 - 148
Perfluorododecanesulfonic acid (PFDoS)	194	103		ng/L		53	36 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	375	371		ng/L		99	67 - 146
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	381	371		ng/L		97	61 - 151
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	384	357		ng/L		93	63 - 152
Perfluorooctanesulfonamide (PFOSA)	200	185		ng/L		93	61 - 148
N-methylperfluorooctane sulfonamide (NMeFOSA)	200	194		ng/L		97	63 - 145
N-ethylperfluorooctane sulfonamide (NEtFOSA)	200	185		ng/L		92	65 - 139
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	200	169		ng/L		85	58 - 144
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	200	185		ng/L		92	59 - 146
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1000	946		ng/L		95	71 - 136
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1000	904		ng/L		90	69 - 137
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	150	151		ng/L		101	63 - 144
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	189	193		ng/L		102	68 - 146
Perfluoro-4-methoxybutanoic acid (PFMBA)	200	188		ng/L		94	55 - 148
Perfluoro-3-methoxypropanoic acid (PFMPA)	200	193		ng/L		97	51 - 145

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633 TOPS - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 410-659410/2-A

Matrix: Water

Analysis Batch: 661468

Client Sample ID: Lab Control Sample

Prep Type: Post-Treatment

Prep Batch: 659410

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	200	189		ng/L		95	48 - 161
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	187	177		ng/L		95	56 - 156
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	189	149		ng/L		79	46 - 156
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	178	177		ng/L		99	56 - 151
3-Perfluoropropylpropanoic acid (3:3 FTCA)	400	386		ng/L		96	62 - 129
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1000	863		ng/L		86	63 - 134
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1000	822		ng/L		82	50 - 138
Perfluorodecanesulfonic acid (PFDS)	193	134		ng/L		70	51 - 147

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4-PFBA	89.0		10 - 130
13C5-PFPeA	90.3		40 - 150
13C5-PFHxA	96.0		40 - 150
13C4-PFHpA	93.5		40 - 150
13C9-PFNA	87.2		30 - 140
13C6-PFDA	94.2		20 - 140
13C7-PFUnA	92.3		20 - 140
13C2 PFDoA	72.7		10 - 150
13C2-PFTeDA	56.7		10 - 130
13C3-PFBS	90.1		25 - 150
13C3-PFHxS	88.2		25 - 150
13C8-PFOS	96.2		20 - 140
d3-NMeFOSAA	107		10 - 200
d5-NEtFOSAA	130		10 - 200
13C2-4:2 FTS	96.3		25 - 200
13C2-6:2 FTS	102		25 - 200
13C2-8:2 FTS	102		25 - 200
13C3-HFPO-DA	88.2		25 - 160
D7-NMeFOSE	74.8		10 - 150
D9-NEtFOSE	81.8		10 - 150
d5-NEtPFOSA	83.0		10 - 130
d3-NMePFOSA	82.6		10 - 130
13C2 PFOA	92.6		40 - 130

Lab Sample ID: LCSD 410-659410/3-A

Matrix: Water

Analysis Batch: 661468

Client Sample ID: Lab Control Sample Dup

Prep Type: Post-Treatment

Prep Batch: 659410

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	400	400		ng/L		100	58 - 148	1	30
Perfluoropentanoic acid (PFPA)	200	204		ng/L		102	54 - 152	5	30

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633 TOPS - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 410-659410/3-A

Matrix: Water

Analysis Batch: 661468

Client Sample ID: Lab Control Sample Dup

Prep Type: Post-Treatment

Prep Batch: 659410

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid (PFHxA)	200	184		ng/L		92	55 - 152	2	30
Perfluoroheptanoic acid (PFHpA)	200	192		ng/L		96	54 - 154	0	30
Perfluorooctanoic acid (PFOA)	200	193		ng/L		96	52 - 161	4	30
Perfluorononanoic acid (PFNA)	200	201		ng/L		100	59 - 149	1	30
Perfluorodecanoic acid (PFDA)	200	198		ng/L		99	52 - 147	11	30
Perfluoroundecanoic acid (PFUnA)	200	192		ng/L		96	48 - 159	12	30
Perfluorododecanoic acid (PFDoA)	200	184		ng/L		92	64 - 142	3	30
Perfluorotridecanoic acid (PFTrDA)	200	177		ng/L		88	49 - 148	3	30
Perfluorotetradecanoic acid (PFTeDA)	200	199		ng/L		100	47 - 161	4	30
Perfluorobutanesulfonic acid (PFBS)	178	168		ng/L		95	62 - 144	3	30
Perfluoropentanesulfonic acid (PFPeS)	188	175		ng/L		93	59 - 151	0	30
Perfluorohexanesulfonic acid (PFHxS)	182	167		ng/L		91	57 - 146	1	30
Perfluoroheptanesulfonic acid (PFHpS)	191	180		ng/L		94	55 - 152	6	30
Perfluorooctanesulfonic acid (PFOS)	186	169		ng/L		91	58 - 149	1	30
Perfluorononanesulfonic acid (PFNS)	192	174		ng/L		90	52 - 148	4	30
Perfluorododecanesulfonic acid (PFDoS)	194	105		ng/L		54	36 - 145	1	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	375	378		ng/L		101	67 - 146	2	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	381	367		ng/L		96	61 - 151	1	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	384	380		ng/L		99	63 - 152	6	30
Perfluorooctanesulfonamide (PFOSA)	200	187		ng/L		94	61 - 148	1	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	200	203		ng/L		101	63 - 145	4	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	200	196		ng/L		98	65 - 139	6	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	200	172		ng/L		86	58 - 144	1	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	200	194		ng/L		97	59 - 146	5	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	1000	1020		ng/L		102	71 - 136	7	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1000	993		ng/L		99	69 - 137	9	30
Hexafluoropropylene Oxide	150	156		ng/L		104	63 - 144	3	30
Dimer Acid (HFPO-DA)									
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	189	193		ng/L		102	68 - 146	0	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	200	193		ng/L		96	55 - 148	3	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	200	196		ng/L		98	51 - 145	1	30

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633 TOPS - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 410-659410/3-A

Matrix: Water

Analysis Batch: 661468

Client Sample ID: Lab Control Sample Dup

Prep Type: Post-Treatment

Prep Batch: 659410

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	200	204		ng/L		102	48 - 161	8	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	187	171		ng/L		92	56 - 156	3	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	189	144		ng/L		76	46 - 156	4	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	178	177		ng/L		99	56 - 151	0	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	400	365		ng/L		91	62 - 129	6	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1000	872		ng/L		87	63 - 134	1	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1000	775		ng/L		78	50 - 138	6	30
Perfluorodecanesulfonic acid (PFDS)	193	143		ng/L		74	51 - 147	6	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C4-PFBA	93.4		10 - 130
13C5-PFPeA	93.3		40 - 150
13C5-PFHxA	97.9		40 - 150
13C4-PFHpA	94.8		40 - 150
13C9-PFNA	86.4		30 - 140
13C6-PFDA	86.5		20 - 140
13C7-PFUnA	85.5		20 - 140
13C2 PFDoA	68.8		10 - 150
13C2-PFTeDA	51.5		10 - 130
13C3-PFBS	93.6		25 - 150
13C3-PFHxS	92.4		25 - 150
13C8-PFOS	91.6		20 - 140
d3-NMeFOSAA	103		10 - 200
d5-NEtFOSAA	121		10 - 200
13C2-4:2 FTS	99.9		25 - 200
13C2-6:2 FTS	106		25 - 200
13C2-8:2 FTS	94.8		25 - 200
13C3-HFPO-DA	90.6		25 - 160
D7-NMeFOSE	70.6		10 - 150
D9-NEtFOSE	71.6		10 - 150
d5-NEtPFOSA	77.7		10 - 130
d3-NMePFOSA	79.2		10 - 130
13C2 PFOA	91.1		40 - 130

Lab Sample ID: LLCS 410-659410/4-A

Matrix: Water

Analysis Batch: 661468

Client Sample ID: Lab Control Sample

Prep Type: Post-Treatment

Prep Batch: 659410

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	41.9		ng/L		105	44 - 157
Perfluoropentanoic acid (PFPA)	20.0	20.4		ng/L		102	57 - 148

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633 TOPS - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LLCS 410-659410/4-A

Matrix: Water

Analysis Batch: 661468

Client Sample ID: Lab Control Sample

Prep Type: Post-Treatment

Prep Batch: 659410

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid (PFHxA)	20.0	20.6		ng/L		103	62 - 149
Perfluoroheptanoic acid (PFHpA)	20.0	21.4		ng/L		107	56 - 150
Perfluorooctanoic acid (PFOA)	20.0	20.2		ng/L		101	57 - 161
Perfluorononanoic acid (PFNA)	20.0	20.5		ng/L		103	53 - 157
Perfluorodecanoic acid (PFDA)	20.0	18.9		ng/L		95	43 - 158
Perfluoroundecanoic acid (PFUnA)	20.0	18.9		ng/L		95	50 - 155
Perfluorododecanoic acid (PFDoA)	20.0	19.5		ng/L		97	60 - 141
Perfluorotridecanoic acid (PFTrDA)	20.0	18.2		ng/L		91	52 - 140
Perfluorotetradecanoic acid (PFTeDA)	20.0	16.9		ng/L		84	52 - 156
Perfluorobutanesulfonic acid (PFBS)	17.8	16.9		ng/L		95	63 - 145
Perfluoropentanesulfonic acid (PFPeS)	18.8	16.8		ng/L		90	58 - 144
Perfluorohexanesulfonic acid (PFHxS)	18.2	18.2		ng/L		100	44 - 158
Perfluoroheptanesulfonic acid (PFHpS)	19.1	18.7		ng/L		98	51 - 150
Perfluorooctanesulfonic acid (PFOS)	18.6	20.8		ng/L		112	43 - 162
Perfluorononanesulfonic acid (PFNS)	19.2	18.3		ng/L		95	46 - 151
Perfluorododecanesulfonic acid (PFDoS)	19.4	12.8		ng/L		66	30 - 138
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	37.5	39.7		ng/L		106	52 - 158
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	38.1	35.7		ng/L		94	48 - 158
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	38.4	38.4		ng/L		100	46 - 165
Perfluorooctanesulfonamide (PFOSA)	20.0	18.9		ng/L		95	47 - 163
N-methylperfluorooctane sulfonamide (NMeFOSA)	20.0	20.3		ng/L		101	54 - 155
N-ethylperfluorooctane sulfonamide (NEtFOSA)	20.0	19.0		ng/L		95	49 - 156
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	20.0	17.3		ng/L		87	32 - 160
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	20.0	20.0		ng/L		100	51 - 154
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	100	106		ng/L		106	56 - 151
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	100	101		ng/L		101	60 - 147
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	15.0	17.6		ng/L		117	58 - 154
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	18.9	19.4		ng/L		102	61 - 148
Perfluoro-4-methoxybutanoic acid (PFMBA)	20.0	21.1		ng/L		105	49 - 154
Perfluoro-3-methoxypropanoic acid (PFMPA)	20.0	19.7		ng/L		98	48 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633 TOPS - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LLCS 410-659410/4-A

Matrix: Water

Analysis Batch: 661468

Client Sample ID: Lab Control Sample

Prep Type: Post-Treatment

Prep Batch: 659410

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	20.0	21.0		ng/L		105	47 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	18.7	19.3		ng/L		103	44 - 167
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	18.9	16.4		ng/L		87	36 - 158
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	17.8	17.9		ng/L		100	56 - 144
3-Perfluoropropylpropanoic acid (3:3 FTCA)	40.0	40.9		ng/L		102	32 - 161
3-Perfluoropentylpropanoic acid (5:3 FTCA)	100	79.4		ng/L		79	39 - 156
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	100	76.9		ng/L		77	36 - 149
Perfluorodecanesulfonic acid (PFDS)	19.3	15.7		ng/L		82	50 - 144

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C4-PFBA	88.7		10 - 130
13C5-PFPeA	87.1		40 - 150
13C5-PFHxA	93.9		40 - 150
13C4-PFHpA	91.3		40 - 150
13C9-PFNA	90.1		30 - 140
13C6-PFDA	96.5		20 - 140
13C7-PFUnA	92.1		20 - 140
13C2 PFDoA	77.6		10 - 150
13C2-PFTeDA	61.6		10 - 130
13C3-PFBS	90.8		25 - 150
13C3-PFHxS	91.9		25 - 150
13C8-PFOS	95.6		20 - 140
d3-NMeFOSAA	113		10 - 200
d5-NEtFOSAA	140		10 - 200
13C2-4:2 FTS	95.5		25 - 200
13C2-6:2 FTS	107		25 - 200
13C2-8:2 FTS	102		25 - 200
13C3-HFPO-DA	86.6		25 - 160
D7-NMeFOSE	65.8		10 - 150
D9-NEtFOSE	63.8		10 - 150
d5-NEtPFOSA	85.0		10 - 130
d3-NMePFOSA	85.6		10 - 130
13C2 PFOA	89.1		40 - 130

QC Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633_BLT - Branched, Linear and Total PFAS

Lab Sample ID: MB 410-665609/18-A
Matrix: Water
Analysis Batch: 665837

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 665609

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<1.1		4.0	1.1	ng/L		07/01/25 14:27	07/02/25 09:51	1
Perfluoropentanoic acid (PFPeA)	<0.60		2.0	0.60	ng/L		07/01/25 14:27	07/02/25 09:51	1
Perfluorohexanoic acid (PFHxA)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Perfluoroheptanoic acid (PFHpA)	<0.80		2.0	0.80	ng/L		07/01/25 14:27	07/02/25 09:51	1
Perfluorodecanoic acid (PFDA)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Perfluoroundecanoic acid (PFUnA)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Perfluorododecanoic acid (PFDoA)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Perfluorotridecanoic acid (PFTriDA)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Perfluorotetradecanoic acid (PFTeDA)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Perfluorobutanesulfonic acid (PFBS)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Perfluoropentanesulfonic acid (PFPeS)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Perfluorononanesulfonic acid (PFNS)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Perfluorodecanesulfonic acid (PFDS)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Perfluorododecanesulfonic acid (PFDoS)	<0.60		2.0	0.60	ng/L		07/01/25 14:27	07/02/25 09:51	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<1.0		4.0	1.0	ng/L		07/01/25 14:27	07/02/25 09:51	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<1.0		4.0	1.0	ng/L		07/01/25 14:27	07/02/25 09:51	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<1.0		4.0	1.0	ng/L		07/01/25 14:27	07/02/25 09:51	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.4		2.0	1.4	ng/L		07/01/25 14:27	07/02/25 09:51	1
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<1.0		4.0	1.0	ng/L		07/01/25 14:27	07/02/25 09:51	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<2.8		10	2.8	ng/L		07/01/25 14:27	07/02/25 09:51	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<2.5		10	2.5	ng/L		07/01/25 14:27	07/02/25 09:51	1
Br-Perfluorooctanoic acid (Br-PFOA)	<0.90		2.0	0.90	ng/L		07/01/25 14:27	07/02/25 09:51	1
L-Perfluorooctanoic acid (L-PFOA)	<0.90		2.0	0.90	ng/L		07/01/25 14:27	07/02/25 09:51	1
Total PFOA	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Br-Perfluorononanoic acid (Br-PFNA)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
L-Perfluorononanoic acid (L-PFNA)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Total PFNA	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1

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QC Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633_BLT - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: MB 410-665609/18-A

Matrix: Water

Analysis Batch: 665837

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 665609

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Br-Perfluorohexanesulfonic acid (Br-PFHxS)	<0.80		2.0	0.80	ng/L		07/01/25 14:27	07/02/25 09:51	1
L-Perfluorohexanesulfonic acid (L-PFHxS)	<0.80		2.0	0.80	ng/L		07/01/25 14:27	07/02/25 09:51	1
Total PFHxS	<0.80		2.0	0.80	ng/L		07/01/25 14:27	07/02/25 09:51	1
Br-Perfluorooctanesulfonic acid (PFOS)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
L-Perfluorooctanesulfonic acid (PFOS)	<1.3		2.0	1.3	ng/L		07/01/25 14:27	07/02/25 09:51	1
Total PFOS	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Br-N-methylperfluorooctanesulfonamidoacetic acid (Br-NMeFOSAA)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
L-N-methylperfluorooctanesulfonamidoacetic acid (L-NMeFOSAA)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Total NMeFOSAA	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Br-N-ethylperfluorooctanesulfonamidoacetic acid (Br-NEtFOSAA)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
L-N-ethylperfluorooctanesulfonamidoacetic acid (L-NEtFOSAA)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Total NEtFOSAA	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Br-N-ethylperfluorooctane sulfonamide (Br-NEtFOSA)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
L-N-ethylperfluorooctane sulfonamide (L-NEtFOSA)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Total NEtFOSA	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Br-N-methylperfluorooctane sulfonamide (Br-NMeFOSA)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
L-N-methylperfluorooctane sulfonamide (L-NMeFOSA)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Total NMeFOSA	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Br-Perfluorooctanesulfonamide (PFOSA)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
L-Perfluorooctanesulfonamide (L-PFOSA)	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Total PFOSA	<0.50		2.0	0.50	ng/L		07/01/25 14:27	07/02/25 09:51	1
Br-2-(N-ethylperfluoro-1-octanesulfonamido) ethanol (Br-NEtFOSE)	<2.5		10	2.5	ng/L		07/01/25 14:27	07/02/25 09:51	1
L-N-ethylperfluorooctane sulfonamidoethanol (L-NEtFOSE)	<4.0		10	4.0	ng/L		07/01/25 14:27	07/02/25 09:51	1
Total NEtFOSE	<2.5		10	2.5	ng/L		07/01/25 14:27	07/02/25 09:51	1
Br-2-(N-methylperfluoro-1-octanesulfonamido) ethanol (Br-NMeFOSE)	<2.5		10	2.5	ng/L		07/01/25 14:27	07/02/25 09:51	1
L-N-methylperfluorooctane sulfonamidoethanol (L-NMeFOSE)	<2.5		10	2.5	ng/L		07/01/25 14:27	07/02/25 09:51	1
Total NMeFOSE	<2.5		10	2.5	ng/L		07/01/25 14:27	07/02/25 09:51	1
Isotope Dilution	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	99		5 - 130				07/01/25 14:27	07/02/25 09:51	1
13C5 PFPeA	96		40 - 130				07/01/25 14:27	07/02/25 09:51	1
13C5 PFHxA	101		40 - 130				07/01/25 14:27	07/02/25 09:51	1
13C4 PFHpA	92		40 - 130				07/01/25 14:27	07/02/25 09:51	1

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QC Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633_BLT - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: MB 410-665609/18-A

Matrix: Water

Analysis Batch: 665837

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 665609

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	94		40 - 130	07/01/25 14:27	07/02/25 09:51	1
13C9 PFNA	95		40 - 130	07/01/25 14:27	07/02/25 09:51	1
13C6 PFDA	94		40 - 130	07/01/25 14:27	07/02/25 09:51	1
13C7 PFUnA	92		30 - 130	07/01/25 14:27	07/02/25 09:51	1
13C2 PFDoA	88		10 - 130	07/01/25 14:27	07/02/25 09:51	1
13C2 PFTeDA	78		10 - 130	07/01/25 14:27	07/02/25 09:51	1
13C3 PFBS	93		40 - 135	07/01/25 14:27	07/02/25 09:51	1
13C3 PFHxS	89		40 - 130	07/01/25 14:27	07/02/25 09:51	1
13C8 PFOS	98		40 - 130	07/01/25 14:27	07/02/25 09:51	1
13C8 FOSA	85		40 - 130	07/01/25 14:27	07/02/25 09:51	1
d3-NMeFOSAA	93		40 - 170	07/01/25 14:27	07/02/25 09:51	1
d5-NEtFOSAA	93		25 - 135	07/01/25 14:27	07/02/25 09:51	1
13C2 4:2 FTS	96		40 - 200	07/01/25 14:27	07/02/25 09:51	1
13C2 6:2 FTS	98		40 - 200	07/01/25 14:27	07/02/25 09:51	1
13C2 8:2 FTS	91		40 - 300	07/01/25 14:27	07/02/25 09:51	1
13C3 HFPO-DA	94		40 - 130	07/01/25 14:27	07/02/25 09:51	1
d7-N-MeFOSE-M	77		10 - 130	07/01/25 14:27	07/02/25 09:51	1
d9-N-EtFOSE-M	70		10 - 130	07/01/25 14:27	07/02/25 09:51	1
d5-NEtPFOSA	68		10 - 130	07/01/25 14:27	07/02/25 09:51	1
d3-NMePFOSA	63		10 - 130	07/01/25 14:27	07/02/25 09:51	1

Lab Sample ID: LCS 410-665609/19-A

Matrix: Water

Analysis Batch: 665837

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 665609

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	80.0	68.2		ng/L		85	70 - 140
Perfluoropentanoic acid (PFPeA)	40.0	36.1		ng/L		90	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	31.9		ng/L		80	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	32.0		ng/L		80	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	33.1		ng/L		83	70 - 140
Perfluoroundecanoic acid (PFUnA)	40.0	33.9		ng/L		85	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	34.6		ng/L		87	70 - 140
Perfluorotridecanoic acid (PFTriDA)	40.0	36.7		ng/L		92	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	36.8		ng/L		92	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.5	31.5		ng/L		89	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.6	34.0		ng/L		90	65 - 140
Perfluoroheptanesulfonic acid (PFHpS)	38.2	31.9		ng/L		84	70 - 150
Perfluorononanesulfonic acid (PFNS)	38.5	29.8		ng/L		78	65 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	30.0		ng/L		78	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.8	27.3		ng/L		70	50 - 145

QC Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633_BLT - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: LCS 410-665609/19-A

Matrix: Water

Analysis Batch: 665837

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 665609

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.0	65.3		ng/L		87	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	65.7		ng/L		86	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	68.4		ng/L		89	60 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	26.2		ng/L		87	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	37.8	33.5		ng/L		89	65 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	39.3		ng/L		98	55 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	37.6		ng/L		94	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	30.8		ng/L		77	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	37.4	30.7		ng/L		82	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	37.8	32.3		ng/L		86	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	35.7	29.8		ng/L		83	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	73.5		ng/L		92	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	145		ng/L		73	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	138		ng/L		69	50 - 145
L-Perfluorooctanoic acid (L-PFOA)	40.0	30.2		ng/L		75	70 - 150
L-Perfluorononanoic acid (L-PFNA)	40.0	35.8		ng/L		90	70 - 150
L-Perfluorohexanesulfonic acid (L-PFHxS)	36.5	29.3		ng/L		80	65 - 145
L-Perfluorooctanesulfonic acid (PFOS)	37.2	30.1		ng/L		81	55 - 150
L-N-methylperfluorooctanesulfonamidoacetic acid (L-NMeFOSAA)	40.0	34.9		ng/L		87	50 - 140
L-N-ethylperfluorooctanesulfonamidoacetic acid (L-NEtFOSAA)	40.0	32.1		ng/L		80	70 - 145
L-N-ethylperfluorooctane sulfonamide (L-NEtFOSA)	40.0	37.5		ng/L		94	65 - 145
L-N-methylperfluorooctane sulfonamide (L-NMeFOSA)	40.0	36.2		ng/L		91	60 - 150
L-Perfluorooctanesulfonamide (L-PFOSA)	40.0	37.7		ng/L		94	70 - 145
L-N-ethylperfluorooctane sulfonamidoethanol (L-NEtFOSE)	200	180		ng/L		90	70 - 135
L-N-methylperfluorooctane sulfonamidoethanol (L-NMeFOSE)	200	167		ng/L		84	70 - 145

QC Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633_BLT - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	99		5 - 130
13C5 PFPeA	95		40 - 130
13C5 PFHxA	101		40 - 130
13C4 PFHpA	99		40 - 130
13C8 PFOA	92		40 - 130
13C9 PFNA	88		40 - 130
13C6 PFDA	88		40 - 130
13C7 PFUnA	85		30 - 130
13C2 PFDoA	86		10 - 130
13C2 PFTeDA	70		10 - 130
13C3 PFBS	86		40 - 135
13C3 PFHxS	87		40 - 130
13C8 PFOS	92		40 - 130
13C8 FOSA	81		40 - 130
d3-NMeFOSAA	87		40 - 170
d5-NEtFOSAA	85		25 - 135
13C2 4:2 FTS	92		40 - 200
13C2 6:2 FTS	95		40 - 200
13C2 8:2 FTS	84		40 - 300
13C3 HFPO-DA	96		40 - 130
d7-N-MeFOSE-M	71		10 - 130
d9-N-EtFOSE-M	62		10 - 130
d5-NEtPFOSA	66		10 - 130
d3-NMePFOSA	66		10 - 130

Lab Sample ID: LCSD 410-665609/20-A

Matrix: Water

Analysis Batch: 665837

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 665609

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec		RPD	
		Result	Qualifier				Limits		RPD	Limit
Perfluorobutanoic acid (PFBA)	80.0	66.4		ng/L		83	70 - 140		3	30
Perfluoropentanoic acid (PFPeA)	40.0	33.0		ng/L		83	65 - 135		9	30
Perfluorohexanoic acid (PFHxA)	40.0	31.9		ng/L		80	70 - 145		0	30
Perfluoroheptanoic acid (PFHpA)	40.0	33.3		ng/L		83	70 - 150		4	30
Perfluorodecanoic acid (PFDA)	40.0	33.4		ng/L		84	70 - 140		1	30
Perfluoroundecanoic acid (PFUnA)	40.0	32.4		ng/L		81	70 - 145		4	30
Perfluorododecanoic acid (PFDoA)	40.0	31.8		ng/L		80	70 - 140		8	30
Perfluorotridecanoic acid (PFTTrDA)	40.0	33.5		ng/L		84	65 - 140		9	30
Perfluorotetradecanoic acid (PFTeDA)	40.0	32.3		ng/L		81	60 - 140		13	30
Perfluorobutanesulfonic acid (PFBS)	35.5	30.0		ng/L		84	60 - 145		5	30
Perfluoropentanesulfonic acid (PFPeS)	37.6	33.1		ng/L		88	65 - 140		3	30
Perfluoroheptanesulfonic acid (PFHpS)	38.2	30.7		ng/L		80	70 - 150		4	30
Perfluorononanesulfonic acid (PFNS)	38.5	30.3		ng/L		79	65 - 145		2	30
Perfluorodecanesulfonic acid (PFDS)	38.6	29.4		ng/L		76	60 - 145		2	30

QC Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633_BLT - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: LCSD 410-665609/20-A

Matrix: Water

Analysis Batch: 665837

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 665609

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorododecanesulfonic acid (PFDoS)	38.8	27.0		ng/L		70	50 - 145	1	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.0	59.5		ng/L		79	70 - 145	9	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	61.8		ng/L		81	65 - 155	6	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	67.1		ng/L		87	60 - 150	2	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	23.9		ng/L		80	70 - 140	9	30
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	37.8	29.3		ng/L		77	65 - 145	13	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	36.3		ng/L		91	55 - 140	8	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	33.9		ng/L		85	60 - 150	10	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	34.8		ng/L		87	50 - 150	12	30
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	37.4	29.2		ng/L		78	70 - 155	5	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	37.8	30.5		ng/L		81	55 - 160	6	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	35.7	29.0		ng/L		81	70 - 140	3	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	70.7		ng/L		88	65 - 130	4	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	145		ng/L		73	70 - 135	0	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	140		ng/L		70	50 - 145	2	30
L-Perfluorooctanoic acid (L-PFOA)	40.0	30.3		ng/L		76	70 - 150	0	30
L-Perfluorononanoic acid (L-PFNA)	40.0	34.8		ng/L		87	70 - 150	3	30
L-Perfluorohexanesulfonic acid (L-PFHxS)	36.5	29.4		ng/L		80	65 - 145	0	30
L-Perfluorooctanesulfonic acid (PFOS)	37.2	28.7		ng/L		77	55 - 150	5	30
L-N-methylperfluorooctanesulfonamidoacetic acid (L-NMeFOSAA)	40.0	33.4		ng/L		84	50 - 140	4	30
L-N-ethylperfluorooctanesulfonamidoacetic acid (L-NEtFOSAA)	40.0	32.9		ng/L		82	70 - 145	2	30
L-N-ethylperfluorooctane sulfonamide (L-NEtFOSA)	40.0	35.0		ng/L		88	65 - 145	7	30
L-N-methylperfluorooctane sulfonamide (L-NMeFOSA)	40.0	34.0		ng/L		85	60 - 150	6	30
L-Perfluorooctanesulfonamide (L-PFOSA)	40.0	37.2		ng/L		93	70 - 145	1	30
L-N-ethylperfluorooctane sulfonamidoethanol (L-NEtFOSE)	200	170		ng/L		85	70 - 135	6	30
L-N-methylperfluorooctane sulfonamidoethanol (L-NMeFOSE)	200	157		ng/L		79	70 - 145	6	30

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633_BLT - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	106		5 - 130
13C5 PFPeA	105		40 - 130
13C5 PFHxA	104		40 - 130
13C4 PFHpA	101		40 - 130
13C8 PFOA	104		40 - 130
13C9 PFNA	98		40 - 130
13C6 PFDA	102		40 - 130
13C7 PFUnA	97		30 - 130
13C2 PFDoA	100		10 - 130
13C2 PFTeDA	87		10 - 130
13C3 PFBS	94		40 - 135
13C3 PFHxS	98		40 - 130
13C8 PFOS	102		40 - 130
13C8 FOSA	93		40 - 130
d3-NMeFOSAA	98		40 - 170
d5-NEtFOSAA	100		25 - 135
13C2 4:2 FTS	106		40 - 200
13C2 6:2 FTS	110		40 - 200
13C2 8:2 FTS	93		40 - 300
13C3 HFPO-DA	105		40 - 130
d7-N-MeFOSE-M	91		10 - 130
d9-N-EtFOSE-M	79		10 - 130
d5-NEtPFOSA	77		10 - 130
d3-NMePFOSA	81		10 - 130

Lab Sample ID: LLCS 410-665609/21-A

Matrix: Water

Analysis Batch: 665837

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 665609

Analyte	Spike Added	LLCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perfluorobutanoic acid (PFBA)	8.00	6.81		ng/L		85	70 - 140
Perfluoropentanoic acid (PFPeA)	4.00	3.40		ng/L		85	65 - 135
Perfluorohexanoic acid (PFHxA)	4.00	3.34		ng/L		84	70 - 145
Perfluoroheptanoic acid (PFHpA)	4.00	3.24		ng/L		81	70 - 150
Perfluorodecanoic acid (PFDA)	4.00	3.03		ng/L		76	70 - 140
Perfluoroundecanoic acid (PFUnA)	4.00	3.09		ng/L		77	70 - 145
Perfluorododecanoic acid (PFDoA)	4.00	3.30		ng/L		83	70 - 140
Perfluorotridecanoic acid (PFTTrDA)	4.00	3.30		ng/L		82	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	4.00	3.60		ng/L		90	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.55	2.98		ng/L		84	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.76	3.30		ng/L		88	65 - 140
Perfluoroheptanesulfonic acid (PFHpS)	3.82	3.13		ng/L		82	70 - 150
Perfluorononanesulfonic acid (PFNS)	3.85	2.79		ng/L		72	65 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	2.75		ng/L		71	60 - 145

QC Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633_BLT - Branched, Linear and Total PFAS (Continued)

Lab Sample ID: LLCS 410-665609/21-A

Matrix: Water

Analysis Batch: 665837

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 665609

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorododecanesulfonic acid (PFDoS)	3.88	2.60		ng/L		67	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.50	6.63		ng/L		88	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.62	6.09		ng/L		80	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.68	7.07		ng/L		92	60 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	3.00	2.45		ng/L		82	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	3.78	3.17		ng/L		84	65 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	3.36		ng/L		84	55 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	3.31		ng/L		83	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	3.14		ng/L		79	50 - 150
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	3.74	2.91		ng/L		78	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	3.78	2.77		ng/L		73	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	3.57	2.74		ng/L		77	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	8.00	6.88		ng/L		86	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	20.0	13.9		ng/L		70	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	20.0	13.8		ng/L		69	50 - 145
L-Perfluorooctanoic acid (L-PFOA)	4.00	3.32		ng/L		83	70 - 150
L-Perfluorononanoic acid (L-PFNA)	4.00	3.77		ng/L		94	70 - 150
L-Perfluorohexanesulfonic acid (L-PFHxS)	3.65	3.00		ng/L		82	65 - 145
L-Perfluorooctanesulfonic acid (PFOS)	3.72	4.90		ng/L		132	55 - 150
L-N-methylperfluorooctanesulfonamidoacetic acid (L-NMeFOSAA)	4.00	3.50		ng/L		87	50 - 140
L-N-ethylperfluorooctanesulfonamidoacetic acid (L-NEtFOSAA)	4.00	3.51		ng/L		88	70 - 145
L-N-ethylperfluorooctane sulfonamide (L-NEtFOSA)	4.00	3.45		ng/L		86	65 - 145
L-N-methylperfluorooctane sulfonamide (L-NMeFOSA)	4.00	3.07		ng/L		77	60 - 150
L-Perfluorooctanesulfonamide (L-PFOSA)	4.00	3.56		ng/L		89	70 - 145
L-N-ethylperfluorooctane sulfonamidoethanol (L-NEtFOSE)	20.0	17.8		ng/L		89	70 - 135
L-N-methylperfluorooctane sulfonamidoethanol (L-NMeFOSE)	20.0	17.5		ng/L		87	70 - 145

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method: 1633_BLT - Branched, Linear and Total PFAS (Continued)

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	97		5 - 130
13C5 PFPeA	97		40 - 130
13C5 PFHxA	100		40 - 130
13C4 PFHpA	96		40 - 130
13C8 PFOA	97		40 - 130
13C9 PFNA	94		40 - 130
13C6 PFDA	94		40 - 130
13C7 PFUnA	88		30 - 130
13C2 PFDoA	85		10 - 130
13C2 PFTeDA	85		10 - 130
13C3 PFBS	97		40 - 135
13C3 PFHxS	99		40 - 130
13C8 PFOS	94		40 - 130
13C8 FOSA	80		40 - 130
d3-NMeFOSAA	86		40 - 170
d5-NEtFOSAA	88		25 - 135
13C2 4:2 FTS	98		40 - 200
13C2 6:2 FTS	107		40 - 200
13C2 8:2 FTS	96		40 - 300
13C3 HFPO-DA	96		40 - 130
d7-N-MeFOSE-M	64		10 - 130
d9-N-EtFOSE-M	54		10 - 130
d5-NEtPFOSA	64		10 - 130
d3-NMePFOSA	66		10 - 130

Method: ELLE SOP - Total or Organic Fluorine by Combustion Ion Chromatography

Lab Sample ID: MB 410-663566/1-A

Matrix: Water

Analysis Batch: 663808

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 663566

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Adsorbable Organic Fluorine (AOF)	<1.2		2.0	1.2	ug/L		06/26/25 11:00	06/26/25 12:38	1

Lab Sample ID: LCS 410-663566/2-A

Matrix: Water

Analysis Batch: 663808

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 663566

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Adsorbable Organic Fluorine (AOF)	25.5	24.3		ug/L		95	75 - 125

Lab Sample ID: LCSD 410-663566/3-A

Matrix: Water

Analysis Batch: 663808

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 663566

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Adsorbable Organic Fluorine (AOF)	25.5	25.4		ug/L		100	75 - 125	4	20

QC Association Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

LCMS

Prep Batch: 655288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226305-1	4959-County Rd-06	Pre-Treatment	Water	TOP Pre - Prep	
410-226305-2	2053-49th-07	Pre-Treatment	Water	TOP Pre - Prep	
410-226305-3	1950-49th-08	Pre-Treatment	Water	TOP Pre - Prep	
410-226305-4	1881-49th-09	Pre-Treatment	Water	TOP Pre - Prep	
410-226305-5	DUP-02	Pre-Treatment	Water	TOP Pre - Prep	
410-226305-6	1710-54th-01	Pre-Treatment	Water	TOP Pre - Prep	
410-226305-7	1670-54th-02	Pre-Treatment	Water	TOP Pre - Prep	
410-226305-8	1640-52nd-03-Lawn	Pre-Treatment	Water	TOP Pre - Prep	
410-226305-9	1640-52nd-03-House	Pre-Treatment	Water	TOP Pre - Prep	
410-226305-10	1833-52nd-04	Pre-Treatment	Water	TOP Pre - Prep	
410-226305-11	5321-County Rd-05	Pre-Treatment	Water	TOP Pre - Prep	
410-226305-12	MW-8	Pre-Treatment	Water	TOP Pre - Prep	
410-226305-13	DUP-1	Pre-Treatment	Water	TOP Pre - Prep	
410-226305-14	Field Blank	Pre-Treatment	Water	TOP Pre - Prep	
410-226305-15	MW-5	Pre-Treatment	Water	TOP Pre - Prep	
410-226305-16	MW-6	Pre-Treatment	Water	TOP Pre - Prep	
410-226305-17	MW-7	Pre-Treatment	Water	TOP Pre - Prep	
MB 410-655288/1-A	Method Blank	Pre-Treatment	Water	TOP Pre - Prep	
LCS 410-655288/2-A	Lab Control Sample	Pre-Treatment	Water	TOP Pre - Prep	
LCSD 410-655288/3-A	Lab Control Sample Dup	Pre-Treatment	Water	TOP Pre - Prep	
LLCS 410-655288/4-A	Lab Control Sample	Pre-Treatment	Water	TOP Pre - Prep	

Analysis Batch: 656521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226305-1	4959-County Rd-06	Pre-Treatment	Water	1633	655288
410-226305-2	2053-49th-07	Pre-Treatment	Water	1633	655288
410-226305-3	1950-49th-08	Pre-Treatment	Water	1633	655288
410-226305-4	1881-49th-09	Pre-Treatment	Water	1633	655288
410-226305-5	DUP-02	Pre-Treatment	Water	1633	655288
410-226305-6	1710-54th-01	Pre-Treatment	Water	1633	655288
410-226305-7	1670-54th-02	Pre-Treatment	Water	1633	655288
410-226305-8	1640-52nd-03-Lawn	Pre-Treatment	Water	1633	655288
410-226305-9	1640-52nd-03-House	Pre-Treatment	Water	1633	655288
410-226305-10	1833-52nd-04	Pre-Treatment	Water	1633	655288
410-226305-11	5321-County Rd-05	Pre-Treatment	Water	1633	655288
410-226305-12	MW-8	Pre-Treatment	Water	1633	655288
410-226305-13	DUP-1	Pre-Treatment	Water	1633	655288
410-226305-14	Field Blank	Pre-Treatment	Water	1633	655288
410-226305-15	MW-5	Pre-Treatment	Water	1633	655288
410-226305-16	MW-6	Pre-Treatment	Water	1633	655288
410-226305-17	MW-7	Pre-Treatment	Water	1633	655288
MB 410-655288/1-A	Method Blank	Pre-Treatment	Water	1633	655288
LCS 410-655288/2-A	Lab Control Sample	Pre-Treatment	Water	1633	655288
LCSD 410-655288/3-A	Lab Control Sample Dup	Pre-Treatment	Water	1633	655288
LLCS 410-655288/4-A	Lab Control Sample	Pre-Treatment	Water	1633	655288

Prep Batch: 659410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226305-1	4959-County Rd-06	Post-Treatment	Water	TOP Post Prep	
410-226305-2	2053-49th-07	Post-Treatment	Water	TOP Post Prep	
410-226305-3	1950-49th-08	Post-Treatment	Water	TOP Post Prep	

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Association Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

LCMS (Continued)

Prep Batch: 659410 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226305-4	1881-49th-09	Post-Treatment	Water	TOP Post Prep	
410-226305-5	DUP-02	Post-Treatment	Water	TOP Post Prep	
410-226305-6	1710-54th-01	Post-Treatment	Water	TOP Post Prep	
410-226305-7	1670-54th-02	Post-Treatment	Water	TOP Post Prep	
410-226305-8	1640-52nd-03-Lawn	Post-Treatment	Water	TOP Post Prep	
410-226305-9	1640-52nd-03-House	Post-Treatment	Water	TOP Post Prep	
410-226305-10	1833-52nd-04	Post-Treatment	Water	TOP Post Prep	
410-226305-11	5321-County Rd-05	Post-Treatment	Water	TOP Post Prep	
410-226305-12	MW-8	Post-Treatment	Water	TOP Post Prep	
410-226305-13	DUP-1	Post-Treatment	Water	TOP Post Prep	
410-226305-14	Field Blank	Post-Treatment	Water	TOP Post Prep	
410-226305-15	MW-5	Post-Treatment	Water	TOP Post Prep	
410-226305-16	MW-6	Post-Treatment	Water	TOP Post Prep	
410-226305-17	MW-7	Post-Treatment	Water	TOP Post Prep	
MB 410-659410/1-A	Method Blank	Post-Treatment	Water	TOP Post Prep	
LCS 410-659410/2-A	Lab Control Sample	Post-Treatment	Water	TOP Post Prep	
LCSD 410-659410/3-A	Lab Control Sample Dup	Post-Treatment	Water	TOP Post Prep	
LLCS 410-659410/4-A	Lab Control Sample	Post-Treatment	Water	TOP Post Prep	

Analysis Batch: 661468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226305-1	4959-County Rd-06	Post-Treatment	Water	1633 TOPS	659410
410-226305-2	2053-49th-07	Post-Treatment	Water	1633 TOPS	659410
410-226305-3	1950-49th-08	Post-Treatment	Water	1633 TOPS	659410
410-226305-4	1881-49th-09	Post-Treatment	Water	1633 TOPS	659410
410-226305-5	DUP-02	Post-Treatment	Water	1633 TOPS	659410
410-226305-6	1710-54th-01	Post-Treatment	Water	1633 TOPS	659410
410-226305-7	1670-54th-02	Post-Treatment	Water	1633 TOPS	659410
410-226305-8	1640-52nd-03-Lawn	Post-Treatment	Water	1633 TOPS	659410
410-226305-9	1640-52nd-03-House	Post-Treatment	Water	1633 TOPS	659410
410-226305-10	1833-52nd-04	Post-Treatment	Water	1633 TOPS	659410
410-226305-11	5321-County Rd-05	Post-Treatment	Water	1633 TOPS	659410
410-226305-12	MW-8	Post-Treatment	Water	1633 TOPS	659410
410-226305-13	DUP-1	Post-Treatment	Water	1633 TOPS	659410
410-226305-14	Field Blank	Post-Treatment	Water	1633 TOPS	659410
410-226305-15	MW-5	Post-Treatment	Water	1633 TOPS	659410
410-226305-16	MW-6	Post-Treatment	Water	1633 TOPS	659410
410-226305-17	MW-7	Post-Treatment	Water	1633 TOPS	659410
MB 410-659410/1-A	Method Blank	Post-Treatment	Water	1633 TOPS	659410
LCS 410-659410/2-A	Lab Control Sample	Post-Treatment	Water	1633 TOPS	659410
LCSD 410-659410/3-A	Lab Control Sample Dup	Post-Treatment	Water	1633 TOPS	659410
LLCS 410-659410/4-A	Lab Control Sample	Post-Treatment	Water	1633 TOPS	659410

Prep Batch: 663566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226305-12	MW-8	Total/NA	Water	NONE	
410-226305-13	DUP-1	Total/NA	Water	NONE	
410-226305-14	Field Blank	Total/NA	Water	NONE	
410-226305-15	MW-5	Total/NA	Water	NONE	
410-226305-16	MW-6	Total/NA	Water	NONE	
410-226305-17	MW-7	Total/NA	Water	NONE	

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Association Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

LCMS (Continued)

Prep Batch: 663566 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-663566/1-A	Method Blank	Total/NA	Water	NONE	
LCS 410-663566/2-A	Lab Control Sample	Total/NA	Water	NONE	
LCSD 410-663566/3-A	Lab Control Sample Dup	Total/NA	Water	NONE	

Analysis Batch: 663808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226305-12	MW-8	Total/NA	Water	ELLE SOP	663566
410-226305-13	DUP-1	Total/NA	Water	ELLE SOP	663566
410-226305-14	Field Blank	Total/NA	Water	ELLE SOP	663566
410-226305-15	MW-5	Total/NA	Water	ELLE SOP	663566
410-226305-16	MW-6	Total/NA	Water	ELLE SOP	663566
410-226305-17	MW-7	Total/NA	Water	ELLE SOP	663566
MB 410-663566/1-A	Method Blank	Total/NA	Water	ELLE SOP	663566
LCS 410-663566/2-A	Lab Control Sample	Total/NA	Water	ELLE SOP	663566
LCSD 410-663566/3-A	Lab Control Sample Dup	Total/NA	Water	ELLE SOP	663566

Prep Batch: 665609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226305-1	4959-County Rd-06	Total/NA	Water	1633	
410-226305-2	2053-49th-07	Total/NA	Water	1633	
410-226305-3	1950-49th-08	Total/NA	Water	1633	
410-226305-4	1881-49th-09	Total/NA	Water	1633	
410-226305-5	DUP-02	Total/NA	Water	1633	
410-226305-6	1710-54th-01	Total/NA	Water	1633	
410-226305-7	1670-54th-02	Total/NA	Water	1633	
410-226305-8	1640-52nd-03-Lawn	Total/NA	Water	1633	
410-226305-9	1640-52nd-03-House	Total/NA	Water	1633	
410-226305-10	1833-52nd-04	Total/NA	Water	1633	
410-226305-11	5321-County Rd-05	Total/NA	Water	1633	
410-226305-12	MW-8	Total/NA	Water	1633	
410-226305-13	DUP-1	Total/NA	Water	1633	
410-226305-14	Field Blank	Total/NA	Water	1633	
410-226305-15	MW-5	Total/NA	Water	1633	
410-226305-16	MW-6	Total/NA	Water	1633	
410-226305-17	MW-7	Total/NA	Water	1633	
MB 410-665609/18-A	Method Blank	Total/NA	Water	1633	
LCS 410-665609/19-A	Lab Control Sample	Total/NA	Water	1633	
LCSD 410-665609/20-A	Lab Control Sample Dup	Total/NA	Water	1633	
LLCS 410-665609/21-A	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 665837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226305-1	4959-County Rd-06	Total/NA	Water	1633_BLT	665609
410-226305-2	2053-49th-07	Total/NA	Water	1633_BLT	665609
410-226305-3	1950-49th-08	Total/NA	Water	1633_BLT	665609
410-226305-4	1881-49th-09	Total/NA	Water	1633_BLT	665609
410-226305-5	DUP-02	Total/NA	Water	1633_BLT	665609
410-226305-6	1710-54th-01	Total/NA	Water	1633_BLT	665609
410-226305-7	1670-54th-02	Total/NA	Water	1633_BLT	665609
410-226305-8	1640-52nd-03-Lawn	Total/NA	Water	1633_BLT	665609
410-226305-9	1640-52nd-03-House	Total/NA	Water	1633_BLT	665609

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Association Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

LCMS (Continued)

Analysis Batch: 665837 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226305-10	1833-52nd-04	Total/NA	Water	1633_BLT	665609
410-226305-11	5321-County Rd-05	Total/NA	Water	1633_BLT	665609
410-226305-12	MW-8	Total/NA	Water	1633_BLT	665609
410-226305-13	DUP-1	Total/NA	Water	1633_BLT	665609
410-226305-14	Field Blank	Total/NA	Water	1633_BLT	665609
410-226305-15	MW-5	Total/NA	Water	1633_BLT	665609
410-226305-16	MW-6	Total/NA	Water	1633_BLT	665609
410-226305-17	MW-7	Total/NA	Water	1633_BLT	665609
MB 410-665609/18-A	Method Blank	Total/NA	Water	1633_BLT	665609
LCS 410-665609/19-A	Lab Control Sample	Total/NA	Water	1633_BLT	665609
LCSD 410-665609/20-A	Lab Control Sample Dup	Total/NA	Water	1633_BLT	665609
LLCS 410-665609/21-A	Lab Control Sample	Total/NA	Water	1633_BLT	665609

Analysis Batch: 666695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226305-1	4959-County Rd-06	Post-Treatment	Water	Total PFCA-Sum	
410-226305-1	4959-County Rd-06	Pre-Treatment	Water	Total PFCA-Sum	
410-226305-2	2053-49th-07	Post-Treatment	Water	Total PFCA-Sum	
410-226305-2	2053-49th-07	Pre-Treatment	Water	Total PFCA-Sum	
410-226305-3	1950-49th-08	Post-Treatment	Water	Total PFCA-Sum	
410-226305-3	1950-49th-08	Pre-Treatment	Water	Total PFCA-Sum	
410-226305-4	1881-49th-09	Post-Treatment	Water	Total PFCA-Sum	
410-226305-4	1881-49th-09	Pre-Treatment	Water	Total PFCA-Sum	
410-226305-5	DUP-02	Post-Treatment	Water	Total PFCA-Sum	
410-226305-5	DUP-02	Pre-Treatment	Water	Total PFCA-Sum	
410-226305-6	1710-54th-01	Post-Treatment	Water	Total PFCA-Sum	
410-226305-6	1710-54th-01	Pre-Treatment	Water	Total PFCA-Sum	
410-226305-7	1670-54th-02	Post-Treatment	Water	Total PFCA-Sum	
410-226305-7	1670-54th-02	Pre-Treatment	Water	Total PFCA-Sum	
410-226305-8	1640-52nd-03-Lawn	Post-Treatment	Water	Total PFCA-Sum	
410-226305-8	1640-52nd-03-Lawn	Pre-Treatment	Water	Total PFCA-Sum	
410-226305-9	1640-52nd-03-House	Post-Treatment	Water	Total PFCA-Sum	
410-226305-9	1640-52nd-03-House	Pre-Treatment	Water	Total PFCA-Sum	
410-226305-10	1833-52nd-04	Post-Treatment	Water	Total PFCA-Sum	
410-226305-10	1833-52nd-04	Pre-Treatment	Water	Total PFCA-Sum	

Analysis Batch: 666702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226305-11	5321-County Rd-05	Post-Treatment	Water	Total PFCA-Sum	
410-226305-11	5321-County Rd-05	Pre-Treatment	Water	Total PFCA-Sum	
410-226305-12	MW-8	Post-Treatment	Water	Total PFCA-Sum	
410-226305-12	MW-8	Pre-Treatment	Water	Total PFCA-Sum	
410-226305-13	DUP-1	Post-Treatment	Water	Total PFCA-Sum	
410-226305-13	DUP-1	Pre-Treatment	Water	Total PFCA-Sum	
410-226305-14	Field Blank	Post-Treatment	Water	Total PFCA-Sum	
410-226305-14	Field Blank	Pre-Treatment	Water	Total PFCA-Sum	
410-226305-15	MW-5	Post-Treatment	Water	Total PFCA-Sum	
410-226305-15	MW-5	Pre-Treatment	Water	Total PFCA-Sum	
410-226305-16	MW-6	Post-Treatment	Water	Total PFCA-Sum	
410-226305-16	MW-6	Pre-Treatment	Water	Total PFCA-Sum	
410-226305-17	MW-7	Post-Treatment	Water	Total PFCA-Sum	

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Association Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

LCMS (Continued)

Analysis Batch: 666702 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226305-17	MW-7	Pre-Treatment	Water	Total PFCA-Sum	

Analysis Batch: 666703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226305-1	4959-County Rd-06	Total/NA	Water	Total PFCA-Dif	
410-226305-2	2053-49th-07	Total/NA	Water	Total PFCA-Dif	
410-226305-3	1950-49th-08	Total/NA	Water	Total PFCA-Dif	
410-226305-4	1881-49th-09	Total/NA	Water	Total PFCA-Dif	
410-226305-5	DUP-02	Total/NA	Water	Total PFCA-Dif	
410-226305-6	1710-54th-01	Total/NA	Water	Total PFCA-Dif	
410-226305-7	1670-54th-02	Total/NA	Water	Total PFCA-Dif	
410-226305-8	1640-52nd-03-Lawn	Total/NA	Water	Total PFCA-Dif	
410-226305-9	1640-52nd-03-House	Total/NA	Water	Total PFCA-Dif	
410-226305-10	1833-52nd-04	Total/NA	Water	Total PFCA-Dif	
410-226305-11	5321-County Rd-05	Total/NA	Water	Total PFCA-Dif	
410-226305-12	MW-8	Total/NA	Water	Total PFCA-Dif	
410-226305-13	DUP-1	Total/NA	Water	Total PFCA-Dif	
410-226305-14	Field Blank	Total/NA	Water	Total PFCA-Dif	
410-226305-15	MW-5	Total/NA	Water	Total PFCA-Dif	
410-226305-16	MW-6	Total/NA	Water	Total PFCA-Dif	
410-226305-17	MW-7	Total/NA	Water	Total PFCA-Dif	

Lab Chronicle

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 4959-County Rd-06

Lab Sample ID: 410-226305-1

Date Collected: 06/04/25 11:40

Matrix: Water

Date Received: 06/07/25 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Pre-Treatment	Prep	TOP Pre - Prep			655288	S7AC	ELLE	06/11/25 06:46
Pre-Treatment	Analysis	1633		1	656521	P7EB	ELLE	06/12/25 19:25
Post-Treatment	Prep	TOP Post Prep			659410	S7AC	ELLE	06/18/25 10:41
Post-Treatment	Analysis	1633 TOPS		1	661468	QY4X	ELLE	06/20/25 16:07
Total/NA	Prep	1633			665609	Y4GV	ELLE	07/01/25 14:27
Total/NA	Analysis	1633_BLT		1	665837	P7EB	ELLE	07/02/25 10:46
Total/NA	Analysis	Total PFCA-Dif		1	666703	QY4X	ELLE	07/03/25 10:24
Post-Treatment	Analysis	Total PFCA-Sum		1	666695	QY4X	ELLE	06/20/25 16:07
Pre-Treatment	Analysis	Total PFCA-Sum		1	666695	QY4X	ELLE	06/12/25 19:25

Client Sample ID: 2053-49th-07

Lab Sample ID: 410-226305-2

Date Collected: 06/04/25 11:50

Matrix: Water

Date Received: 06/07/25 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Pre-Treatment	Prep	TOP Pre - Prep			655288	S7AC	ELLE	06/11/25 06:46
Pre-Treatment	Analysis	1633		1	656521	P7EB	ELLE	06/12/25 19:39
Post-Treatment	Prep	TOP Post Prep			659410	S7AC	ELLE	06/18/25 10:41
Post-Treatment	Analysis	1633 TOPS		1	661468	QY4X	ELLE	06/20/25 16:21
Total/NA	Prep	1633			665609	Y4GV	ELLE	07/01/25 14:27
Total/NA	Analysis	1633_BLT		1	665837	P7EB	ELLE	07/02/25 10:59
Total/NA	Analysis	Total PFCA-Dif		1	666703	QY4X	ELLE	07/03/25 10:24
Post-Treatment	Analysis	Total PFCA-Sum		1	666695	QY4X	ELLE	06/20/25 16:21
Pre-Treatment	Analysis	Total PFCA-Sum		1	666695	QY4X	ELLE	06/12/25 19:39

Client Sample ID: 1950-49th-08

Lab Sample ID: 410-226305-3

Date Collected: 06/04/25 12:00

Matrix: Water

Date Received: 06/07/25 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Pre-Treatment	Prep	TOP Pre - Prep			655288	S7AC	ELLE	06/11/25 06:46
Pre-Treatment	Analysis	1633		1	656521	P7EB	ELLE	06/12/25 19:52
Post-Treatment	Prep	TOP Post Prep			659410	S7AC	ELLE	06/18/25 10:41
Post-Treatment	Analysis	1633 TOPS		1	661468	QY4X	ELLE	06/20/25 16:35
Total/NA	Prep	1633			665609	Y4GV	ELLE	07/01/25 14:27
Total/NA	Analysis	1633_BLT		1	665837	P7EB	ELLE	07/02/25 11:13
Total/NA	Analysis	Total PFCA-Dif		1	666703	QY4X	ELLE	07/03/25 10:24
Post-Treatment	Analysis	Total PFCA-Sum		1	666695	QY4X	ELLE	06/20/25 16:35
Pre-Treatment	Analysis	Total PFCA-Sum		1	666695	QY4X	ELLE	06/12/25 19:52

Lab Chronicle

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1881-49th-09

Lab Sample ID: 410-226305-4

Date Collected: 06/04/25 12:10

Matrix: Water

Date Received: 06/07/25 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Pre-Treatment	Prep	TOP Pre - Prep			655288	S7AC	ELLE	06/11/25 06:46
Pre-Treatment	Analysis	1633		1	656521	P7EB	ELLE	06/12/25 20:06
Post-Treatment	Prep	TOP Post Prep			659410	S7AC	ELLE	06/18/25 10:41
Post-Treatment	Analysis	1633 TOPS		1	661468	QY4X	ELLE	06/20/25 16:48
Total/NA	Prep	1633			665609	Y4GV	ELLE	07/01/25 14:27
Total/NA	Analysis	1633_BLT		1	665837	P7EB	ELLE	07/02/25 11:27
Total/NA	Analysis	Total PFCA-Dif		1	666703	QY4X	ELLE	07/03/25 10:24
Post-Treatment	Analysis	Total PFCA-Sum		1	666695	QY4X	ELLE	06/20/25 16:48
Pre-Treatment	Analysis	Total PFCA-Sum		1	666695	QY4X	ELLE	06/12/25 20:06

Client Sample ID: DUP-02

Lab Sample ID: 410-226305-5

Date Collected: 06/04/25 00:00

Matrix: Water

Date Received: 06/07/25 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Pre-Treatment	Prep	TOP Pre - Prep			655288	S7AC	ELLE	06/11/25 06:46
Pre-Treatment	Analysis	1633		1	656521	P7EB	ELLE	06/12/25 20:19
Post-Treatment	Prep	TOP Post Prep			659410	S7AC	ELLE	06/18/25 10:41
Post-Treatment	Analysis	1633 TOPS		1	661468	QY4X	ELLE	06/20/25 17:02
Total/NA	Prep	1633			665609	Y4GV	ELLE	07/01/25 14:27
Total/NA	Analysis	1633_BLT		1	665837	P7EB	ELLE	07/02/25 11:40
Total/NA	Analysis	Total PFCA-Dif		1	666703	QY4X	ELLE	07/03/25 10:24
Post-Treatment	Analysis	Total PFCA-Sum		1	666695	QY4X	ELLE	06/20/25 17:02
Pre-Treatment	Analysis	Total PFCA-Sum		1	666695	QY4X	ELLE	06/12/25 20:19

Client Sample ID: 1710-54th-01

Lab Sample ID: 410-226305-6

Date Collected: 06/04/25 10:20

Matrix: Water

Date Received: 06/07/25 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Pre-Treatment	Prep	TOP Pre - Prep			655288	S7AC	ELLE	06/11/25 06:46
Pre-Treatment	Analysis	1633		1	656521	P7EB	ELLE	06/12/25 20:33
Post-Treatment	Prep	TOP Post Prep			659410	S7AC	ELLE	06/18/25 10:41
Post-Treatment	Analysis	1633 TOPS		1	661468	QY4X	ELLE	06/20/25 17:15
Total/NA	Prep	1633			665609	Y4GV	ELLE	07/01/25 14:27
Total/NA	Analysis	1633_BLT		1	665837	P7EB	ELLE	07/02/25 11:54
Total/NA	Analysis	Total PFCA-Dif		1	666703	QY4X	ELLE	07/03/25 10:24
Post-Treatment	Analysis	Total PFCA-Sum		1	666695	QY4X	ELLE	06/20/25 17:15
Pre-Treatment	Analysis	Total PFCA-Sum		1	666695	QY4X	ELLE	06/12/25 20:33

Lab Chronicle

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1670-54th-02

Lab Sample ID: 410-226305-7

Date Collected: 06/04/25 10:30

Matrix: Water

Date Received: 06/07/25 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Pre-Treatment	Prep	TOP Pre - Prep			655288	S7AC	ELLE	06/11/25 06:46
Pre-Treatment	Analysis	1633		1	656521	P7EB	ELLE	06/12/25 20:47
Post-Treatment	Prep	TOP Post Prep			659410	S7AC	ELLE	06/18/25 10:41
Post-Treatment	Analysis	1633 TOPS		1	661468	QY4X	ELLE	06/20/25 17:29
Total/NA	Prep	1633			665609	Y4GV	ELLE	07/01/25 14:27
Total/NA	Analysis	1633_BLT		1	665837	P7EB	ELLE	07/02/25 12:07
Total/NA	Analysis	Total PFCA-Dif		1	666703	QY4X	ELLE	07/03/25 10:24
Post-Treatment	Analysis	Total PFCA-Sum		1	666695	QY4X	ELLE	06/20/25 17:29
Pre-Treatment	Analysis	Total PFCA-Sum		1	666695	QY4X	ELLE	06/12/25 20:47

Client Sample ID: 1640-52nd-03-Lawn

Lab Sample ID: 410-226305-8

Date Collected: 06/04/25 11:00

Matrix: Water

Date Received: 06/07/25 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Pre-Treatment	Prep	TOP Pre - Prep			655288	S7AC	ELLE	06/11/25 06:46
Pre-Treatment	Analysis	1633		1	656521	P7EB	ELLE	06/12/25 21:00
Post-Treatment	Prep	TOP Post Prep			659410	S7AC	ELLE	06/18/25 10:41
Post-Treatment	Analysis	1633 TOPS		1	661468	QY4X	ELLE	06/20/25 17:42
Total/NA	Prep	1633			665609	Y4GV	ELLE	07/01/25 14:27
Total/NA	Analysis	1633_BLT		1	665837	P7EB	ELLE	07/02/25 12:21
Total/NA	Analysis	Total PFCA-Dif		1	666703	QY4X	ELLE	07/03/25 10:24
Post-Treatment	Analysis	Total PFCA-Sum		1	666695	QY4X	ELLE	06/20/25 17:42
Pre-Treatment	Analysis	Total PFCA-Sum		1	666695	QY4X	ELLE	06/12/25 21:00

Client Sample ID: 1640-52nd-03-House

Lab Sample ID: 410-226305-9

Date Collected: 06/04/25 10:50

Matrix: Water

Date Received: 06/07/25 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Pre-Treatment	Prep	TOP Pre - Prep			655288	S7AC	ELLE	06/11/25 06:46
Pre-Treatment	Analysis	1633		1	656521	P7EB	ELLE	06/12/25 21:14
Post-Treatment	Prep	TOP Post Prep			659410	S7AC	ELLE	06/18/25 10:41
Post-Treatment	Analysis	1633 TOPS		1	661468	QY4X	ELLE	06/20/25 17:56
Total/NA	Prep	1633			665609	Y4GV	ELLE	07/01/25 14:27
Total/NA	Analysis	1633_BLT		1	665837	P7EB	ELLE	07/02/25 12:35
Total/NA	Analysis	Total PFCA-Dif		1	666703	QY4X	ELLE	07/03/25 10:24
Post-Treatment	Analysis	Total PFCA-Sum		1	666695	QY4X	ELLE	06/20/25 17:56
Pre-Treatment	Analysis	Total PFCA-Sum		1	666695	QY4X	ELLE	06/12/25 21:14

Lab Chronicle

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: 1833-52nd-04

Lab Sample ID: 410-226305-10

Date Collected: 06/04/25 11:10

Matrix: Water

Date Received: 06/07/25 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Pre-Treatment	Prep	TOP Pre - Prep			655288	S7AC	ELLE	06/11/25 06:46
Pre-Treatment	Analysis	1633		1	656521	P7EB	ELLE	06/12/25 21:27
Post-Treatment	Prep	TOP Post Prep			659410	S7AC	ELLE	06/18/25 10:41
Post-Treatment	Analysis	1633 TOPS		1	661468	QY4X	ELLE	06/20/25 18:10
Total/NA	Prep	1633			665609	Y4GV	ELLE	07/01/25 14:27
Total/NA	Analysis	1633_BLT		1	665837	P7EB	ELLE	07/02/25 12:48
Total/NA	Analysis	Total PFCA-Dif		1	666703	QY4X	ELLE	07/03/25 10:24
Post-Treatment	Analysis	Total PFCA-Sum		1	666695	QY4X	ELLE	06/20/25 18:10
Pre-Treatment	Analysis	Total PFCA-Sum		1	666695	QY4X	ELLE	06/12/25 21:27

Client Sample ID: 5321-County Rd-05

Lab Sample ID: 410-226305-11

Date Collected: 06/04/25 11:20

Matrix: Water

Date Received: 06/07/25 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Pre-Treatment	Prep	TOP Pre - Prep			655288	S7AC	ELLE	06/11/25 06:46
Pre-Treatment	Analysis	1633		1	656521	P7EB	ELLE	06/12/25 22:08
Post-Treatment	Prep	TOP Post Prep			659410	S7AC	ELLE	06/18/25 10:41
Post-Treatment	Analysis	1633 TOPS		1	661468	QY4X	ELLE	06/20/25 18:50
Total/NA	Prep	1633			665609	Y4GV	ELLE	07/01/25 14:27
Total/NA	Analysis	1633_BLT		1	665837	P7EB	ELLE	07/02/25 13:29
Total/NA	Analysis	Total PFCA-Dif		1	666703	QY4X	ELLE	07/03/25 10:24
Post-Treatment	Analysis	Total PFCA-Sum		1	666702	QY4X	ELLE	06/20/25 18:50
Pre-Treatment	Analysis	Total PFCA-Sum		1	666702	QY4X	ELLE	06/12/25 22:08

Client Sample ID: MW-8

Lab Sample ID: 410-226305-12

Date Collected: 06/03/25 16:15

Matrix: Water

Date Received: 06/07/25 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Pre-Treatment	Prep	TOP Pre - Prep			655288	S7AC	ELLE	06/11/25 06:46
Pre-Treatment	Analysis	1633		1	656521	P7EB	ELLE	06/12/25 22:22
Post-Treatment	Prep	TOP Post Prep			659410	S7AC	ELLE	06/18/25 10:41
Post-Treatment	Analysis	1633 TOPS		1	661468	QY4X	ELLE	06/20/25 19:04
Total/NA	Prep	1633			665609	Y4GV	ELLE	07/01/25 14:27
Total/NA	Analysis	1633_BLT		1	665837	P7EB	ELLE	07/02/25 13:43
Total/NA	Prep	NONE			663566	QLP7	ELLE	06/26/25 11:00
Total/NA	Analysis	ELLE SOP		1	663808	QLP7	ELLE	06/26/25 22:26
Total/NA	Analysis	Total PFCA-Dif		1	666703	QY4X	ELLE	07/03/25 10:24
Post-Treatment	Analysis	Total PFCA-Sum		1	666702	QY4X	ELLE	06/20/25 19:04
Pre-Treatment	Analysis	Total PFCA-Sum		1	666702	QY4X	ELLE	06/12/25 22:22

Lab Chronicle

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: DUP-1

Lab Sample ID: 410-226305-13

Date Collected: 06/03/25 00:00

Matrix: Water

Date Received: 06/07/25 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Pre-Treatment	Prep	TOP Pre - Prep			655288	S7AC	ELLE	06/11/25 06:46
Pre-Treatment	Analysis	1633		1	656521	P7EB	ELLE	06/12/25 22:35
Post-Treatment	Prep	TOP Post Prep			659410	S7AC	ELLE	06/18/25 10:41
Post-Treatment	Analysis	1633 TOPS		1	661468	QY4X	ELLE	06/20/25 19:17
Total/NA	Prep	1633			665609	Y4GV	ELLE	07/01/25 14:27
Total/NA	Analysis	1633_BLT		1	665837	P7EB	ELLE	07/02/25 13:56
Total/NA	Prep	NONE			663566	QLP7	ELLE	06/26/25 11:00
Total/NA	Analysis	ELLE SOP		1	663808	QLP7	ELLE	06/26/25 23:38
Total/NA	Analysis	Total PFCA-Dif		1	666703	QY4X	ELLE	07/03/25 10:24
Post-Treatment	Analysis	Total PFCA-Sum		1	666702	QY4X	ELLE	06/20/25 19:17
Pre-Treatment	Analysis	Total PFCA-Sum		1	666702	QY4X	ELLE	06/12/25 22:35

Client Sample ID: Field Blank

Lab Sample ID: 410-226305-14

Date Collected: 06/04/25 13:15

Matrix: Water

Date Received: 06/07/25 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Pre-Treatment	Prep	TOP Pre - Prep			655288	S7AC	ELLE	06/11/25 06:46
Pre-Treatment	Analysis	1633		1	656521	P7EB	ELLE	06/12/25 22:49
Post-Treatment	Prep	TOP Post Prep			659410	S7AC	ELLE	06/18/25 10:41
Post-Treatment	Analysis	1633 TOPS		1	661468	QY4X	ELLE	06/20/25 19:31
Total/NA	Prep	1633			665609	Y4GV	ELLE	07/01/25 14:27
Total/NA	Analysis	1633_BLT		1	665837	P7EB	ELLE	07/02/25 14:10
Total/NA	Prep	NONE			663566	QLP7	ELLE	06/26/25 11:00
Total/NA	Analysis	ELLE SOP		1	663808	QLP7	ELLE	06/27/25 00:50
Total/NA	Analysis	Total PFCA-Dif		1	666703	QY4X	ELLE	07/03/25 10:24
Post-Treatment	Analysis	Total PFCA-Sum		1	666702	QY4X	ELLE	06/20/25 19:31
Pre-Treatment	Analysis	Total PFCA-Sum		1	666702	QY4X	ELLE	06/12/25 22:49

Client Sample ID: MW-5

Lab Sample ID: 410-226305-15

Date Collected: 06/03/25 12:25

Matrix: Water

Date Received: 06/07/25 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Pre-Treatment	Prep	TOP Pre - Prep			655288	S7AC	ELLE	06/11/25 06:46
Pre-Treatment	Analysis	1633		1	656521	P7EB	ELLE	06/12/25 23:03
Post-Treatment	Prep	TOP Post Prep			659410	S7AC	ELLE	06/18/25 10:41
Post-Treatment	Analysis	1633 TOPS		1	661468	QY4X	ELLE	06/20/25 19:45
Total/NA	Prep	1633			665609	Y4GV	ELLE	07/01/25 14:27
Total/NA	Analysis	1633_BLT		1	665837	P7EB	ELLE	07/02/25 14:24
Total/NA	Prep	NONE			663566	QLP7	ELLE	06/26/25 11:00
Total/NA	Analysis	ELLE SOP		1	663808	QLP7	ELLE	06/27/25 02:02
Total/NA	Analysis	Total PFCA-Dif		1	666703	QY4X	ELLE	07/03/25 10:24
Post-Treatment	Analysis	Total PFCA-Sum		1	666702	QY4X	ELLE	06/20/25 19:45

Eurofins Lancaster Laboratories Environment Testing, LLC

Lab Chronicle

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Client Sample ID: MW-5

Lab Sample ID: 410-226305-15

Date Collected: 06/03/25 12:25

Matrix: Water

Date Received: 06/07/25 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Pre-Treatment	Analysis	Total PFCA-Sum		1	666702	QY4X	ELLE	06/12/25 23:03

Client Sample ID: MW-6

Lab Sample ID: 410-226305-16

Date Collected: 06/03/25 13:30

Matrix: Water

Date Received: 06/07/25 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Pre-Treatment	Prep	TOP Pre - Prep			655288	S7AC	ELLE	06/11/25 06:46
Pre-Treatment	Analysis	1633		1	656521	P7EB	ELLE	06/12/25 23:16
Post-Treatment	Prep	TOP Post Prep			659410	S7AC	ELLE	06/18/25 10:41
Post-Treatment	Analysis	1633 TOPS		1	661468	QY4X	ELLE	06/20/25 19:58
Total/NA	Prep	1633			665609	Y4GV	ELLE	07/01/25 14:27
Total/NA	Analysis	1633_BLT		1	665837	P7EB	ELLE	07/02/25 14:37
Total/NA	Prep	NONE			663566	QLP7	ELLE	06/26/25 11:00
Total/NA	Analysis	ELLE SOP		1	663808	QLP7	ELLE	06/27/25 03:14
Total/NA	Analysis	Total PFCA-Dif		1	666703	QY4X	ELLE	07/03/25 10:24
Post-Treatment	Analysis	Total PFCA-Sum		1	666702	QY4X	ELLE	06/20/25 19:58
Pre-Treatment	Analysis	Total PFCA-Sum		1	666702	QY4X	ELLE	06/12/25 23:16

Client Sample ID: MW-7

Lab Sample ID: 410-226305-17

Date Collected: 06/03/25 14:40

Matrix: Water

Date Received: 06/07/25 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Pre-Treatment	Prep	TOP Pre - Prep			655288	S7AC	ELLE	06/11/25 06:46
Pre-Treatment	Analysis	1633		1	656521	P7EB	ELLE	06/12/25 23:30
Post-Treatment	Prep	TOP Post Prep			659410	S7AC	ELLE	06/18/25 10:41
Post-Treatment	Analysis	1633 TOPS		1	661468	QY4X	ELLE	06/20/25 20:12
Total/NA	Prep	1633			665609	Y4GV	ELLE	07/01/25 14:27
Total/NA	Analysis	1633_BLT		1	665837	P7EB	ELLE	07/02/25 14:51
Total/NA	Prep	NONE			663566	QLP7	ELLE	06/26/25 11:00
Total/NA	Analysis	ELLE SOP		1	663808	QLP7	ELLE	06/27/25 04:25
Total/NA	Analysis	Total PFCA-Dif		1	666703	QY4X	ELLE	07/03/25 10:24
Post-Treatment	Analysis	Total PFCA-Sum		1	666702	QY4X	ELLE	06/20/25 20:12
Pre-Treatment	Analysis	Total PFCA-Sum		1	666702	QY4X	ELLE	06/12/25 23:30

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Lancaster Laboratories Environment Testing, LLC

Accreditation/Certification Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Minnesota	NELAP	042-999-487	12-31-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
1633_BLT	1633	Water	Br-2- (N-ethylperfluoro-1-octanesulfonamido) ethanol (Br-NEtFOSE)
1633_BLT	1633	Water	Br-2- (N-methylperfluoro-1-octanesulfonamido) ethanol (Br-NMeFOSE)
1633_BLT	1633	Water	Br-N-ethylperfluorooctane sulfonamide (Br-NEtFOSA)
1633_BLT	1633	Water	Br-N-ethylperfluorooctanesulfonamidoaceti c acid (Br-NEtFOSAA)
1633_BLT	1633	Water	Br-N-methylperfluorooctane sulfonamide (Br-NMeFOSA)
1633_BLT	1633	Water	Br-N-methylperfluorooctanesulfonamidoac etic acid (Br-NMeFOSAA)
1633_BLT	1633	Water	Br-Perfluorohexanesulfonic acid (Br-PFHxS)
1633_BLT	1633	Water	Br-Perfluorononanoic acid (Br-PFNA)
1633_BLT	1633	Water	Br-Perfluorooctanesulfonamide (PFOSA)
1633_BLT	1633	Water	Br-Perfluorooctanesulfonic acid (PFOS)
1633_BLT	1633	Water	Br-Perfluorooctanoic acid (Br-PFOA)
1633_BLT	1633	Water	Total PFNA
1633_BLT	1633	Water	Total NEtFOSA
1633_BLT	1633	Water	Total NEtFOSAA
1633_BLT	1633	Water	Total NEtFOSE
1633_BLT	1633	Water	Total NMeFOSA
1633_BLT	1633	Water	Total NMeFOSAA
1633_BLT	1633	Water	Total NMeFOSE
1633_BLT	1633	Water	Total PFHxS
1633_BLT	1633	Water	Total PFOA
1633_BLT	1633	Water	Total PFOS
1633_BLT	1633	Water	Total PFOSA
ELLE SOP	NONE	Water	Adsorbable Organic Fluorine (AOF)
Total PFCA-Dif		Water	Perfluorobutanoic acid (PFBA)
Total PFCA-Dif		Water	Perfluoroheptanoic acid (PFHpA)
Total PFCA-Dif		Water	Perfluorohexanoic acid (PFHxA)
Total PFCA-Dif		Water	Perfluorononanoic acid (PFNA)
Total PFCA-Dif		Water	Perfluorooctanoic acid (PFOA)
Total PFCA-Dif		Water	Perfluoropentanoic acid (PFPA)
Total PFCA-Dif		Water	Total PFCA
Total PFCA-Sum		Water	Total PFCA

Method Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Method	Method Description	Protocol	Laboratory
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	ELLE
1633 TOPS	Fluorinated Alkyl Substances	EPA	ELLE
1633_BLT	Branched, Linear and Total PFAS	EPA	ELLE
ELLE SOP	Total or Organic Fluorine by Combustion Ion Chromatography	ELLE - Lancaster	ELLE
Total PFCA-Dif	Total PFCA (Treatment Difference)	TAL SOP	ELLE
Total PFCA-Sum	Total PFCA (Summary)	TAL SOP	ELLE
1633	Solid-Phase Extraction (SPE)	EPA	ELLE
NONE	Preparation, Fluorine	ELLE - Lancaster	ELLE
TOP Post Prep	Solid-Phase Extraction (SPE)	SW846	ELLE
TOP Pre - Prep	Solid-Phase Extraction (SPE)	SW846	ELLE

Protocol References:

ELLE - Lancaster = Eurofins Lancaster, Facility Standard Operating Procedure.

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: AECOM
Project/Site: PFAS TOP ASSAY

Job ID: 410-226305-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-226305-1	4959-County Rd-06	Water	06/04/25 11:40	06/07/25 10:35
410-226305-2	2053-49th-07	Water	06/04/25 11:50	06/07/25 10:35
410-226305-3	1950-49th-08	Water	06/04/25 12:00	06/07/25 10:35
410-226305-4	1881-49th-09	Water	06/04/25 12:10	06/07/25 10:35
410-226305-5	DUP-02	Water	06/04/25 00:00	06/07/25 10:35
410-226305-6	1710-54th-01	Water	06/04/25 10:20	06/07/25 10:35
410-226305-7	1670-54th-02	Water	06/04/25 10:30	06/07/25 10:35
410-226305-8	1640-52nd-03-Lawn	Water	06/04/25 11:00	06/07/25 10:35
410-226305-9	1640-52nd-03-House	Water	06/04/25 10:50	06/07/25 10:35
410-226305-10	1833-52nd-04	Water	06/04/25 11:10	06/07/25 10:35
410-226305-11	5321-County Rd-05	Water	06/04/25 11:20	06/07/25 10:35
410-226305-12	MW-8	Water	06/03/25 16:15	06/07/25 10:35
410-226305-13	DUP-1	Water	06/03/25 00:00	06/07/25 10:35
410-226305-14	Field Blank	Water	06/04/25 13:15	06/07/25 10:35
410-226305-15	MW-5	Water	06/03/25 12:25	06/07/25 10:35
410-226305-16	MW-6	Water	06/03/25 13:30	06/07/25 10:35
410-226305-17	MW-7	Water	06/03/25 14:40	06/07/25 10:35

3019 Venture Way
Cedar Falls IA 50613
Phone 319-277-2401 Fax: 319-277-2425

Eurofins Minneapolis SC
213

* reentered
as an EUF agent



410-226305 Chain of Custody

Client Information		Sampler	Chen-1 c B.115		Lab PM	Bindert Zach T		Per Contract		Garner Tr.		310-107-220-200101		
Client Contact Nathan Puka		Phone	414-531-0074		E-Mail	Zach.Bindert@et.eurofinsus.com		State of Origin MN		Page 1 of 4		Page 1 of 4		
Company AECOM		PWSID		Analysis Requested						Job #:				
Address 4500 Park Glen Road Suite 210		Due Date Requested										Preservation Codes N None		
City Minneapolis		TAT Requested (days)		15 days (Tops) / 10 days (1633)										
State Zip MN 55416		Compliance Project: Yes No												
Phone 612-376-2000(Tel)		PO # 1704011												
Email nathan.puka@aecom.com		WO # 60747528												
Project Name PFAS - TOP Assay Project		Project # 31019109												
Site St Cloud PFAS Forensics		SSOW#												
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, G=wastewater, BT=tissue, AA=air, DW=drinking water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total PFCA_Sum	Local Method	1633_Final List of 40 based on EPA method	Local Method	CIC_Fluorine Adsorbable Organic Fluorine	Total Number of containers	Other
				Preservation Code		X	X	N	N	N	N		X	Special Instructions/Note
1710-57th-01		6/4/25	1020	G	Water	N	N			X	X		5	
1670-54th-02		6/4/25	1030	G	Water	N	N			X	X		5	
1640-52nd-03 Low		6/4/25	1100	G	Water	N	N			X	X		5	
1640-52nd-03 House		6/4/25	1050	G	Water	N	N			X	X		5	
1835-52nd-04		6/4/25	1110	G	Water	N	N			X	X		5	
5321-County Rd-05		6/4/25	1120	G	Water	N	N			X	X		5	
4959-County Rd-06		6/4/25	1140	G	Water	N	N			X	X		5	
2053-49th-07		6/4/25	1150	G	Water	N	N			X	X		5	
1950-49th-08		6/4/25	1200	G	Water	N	N			X	X		5	
1881-49th-09		6/4/25	1210	G	Water	N	N			X	X		5	
DVR-2		6/4/25	0000	G	Water	N	N			X	X		5	
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)								
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological						☐ Return To Client ☒ Disposal By Lab ☐ Archive For Months								
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements								
Empty Kit Relinquished by Ethan Poterz		Date		Time		Method of Shipment								
Relinquished by		Date/Time		Company		Received by		Date/Time		Company				
Relinquished by		Date/Time		Company		Received by		Date/Time		Company				
Relinquished by		Date/Time		Company		Received by		Date/Time		Company				
Custody Seal Intact: Yes No		Custody Seal No				Cooler Temperature(s) °C and Other Remarks:								

3019 Venture Way
Cedar Falls IA 50613
Phone: 319-277-2401 Fax: 319-277-2425

Eurofins Minneapolis Se
-2425 **213**

Chain of Custody Record

eurofins

Client Information		Client Contact Nathan Pukal		Lab PM Bindert, Zach T		Carrier Tracking No(s)		COC No 310-107220-28610 1	
Company AECOM		Phone 414-531-0074		E-Mail Zach.Bindert@et.eurofinsus.com		State of Origin MN		Page Page 1 of 4	
Address 4500 Park Glen Road Suite 210		Due Date Requested		Analysis Requested		Job #		Preservation Codes N None	
City Minneapolis		TAT Requested (days) 15 day (Tops) / 10 day (1633)		Compliance Project: Yes No		Total PFCA Sum Local Method		Total Number of containers	
State Zip MN 55416		PO # 1704011		WO # 60747528		1633 Final List of 40 based on EPA method		Other	
Phone 612-576-2000(Tel)		Project # 31019109		SSOW#		1633 TOPS Local Method		Special Instructions/Note	
Email nathan.pukal@aecom.com		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=wastewater, BT=Tissue, AA=Air, DW=Drinking Water)		CIC Fluorine Adsorbable Organic Fluorine		2202078 ¹⁰ lower 2044	
Project Name PFAS - TOP Assay Project		Sample Date		Sample Time		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
Site St Cloud PFAS Forensics		Preservation Code		Water		N		N	
1710-54 th -01		6/4/25		1020		G		Water	
1670-54 th -02		6/4/25		1030		G		Water	
1640-52 nd -03-Law		6/4/25		1100		G		Water	
1640-52 nd -03-House		6/4/25		1050		G		Water	
1833-52 nd -04		6/4/25		1110		G		Water	
5321-County Rd-05		6/4/25		1120		G		Water	
4454-County Rd-06		6/4/25		1140		G		Water	
2653-49 th -07		6/4/25		1150		G		Water	
1450-49 th -08		6/4/25		1200		G		Water	
1881-49 th -09		6/4/25		1210		G		Water	
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client		Disposal By Lab		Archive For Months	
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		☐ Return To Client ☒ Disposal By Lab ☐ Archive For Months		Special Instructions/QC Requirements		Empty Kit Relinquished by		Date	
Deliverable Requested I II III IV Other (specify)		Empty Kit Relinquished by		Date		Time		Method of Shipment	
Relinquished by		Date/Time		Company		Received by		Date/Time	
Relinquished by		Date/Time		Company		Received by		Date/Time	
Relinquished by		Date/Time		Company		Received by		Date/Time	
Custody Seal Intact: Yes No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks:		R 2.5		C 2.3	

Ver 10/10/2024

3019 Venture Way
Cedar Falls IA 50613
Phone: 319-277-2401 Fax: 319-277-2425

Eurofins Minneapolis **Chain of Custody Record**
 213

COC No	310-107220-28610 3
Page	6 6
Page	6 of 6

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Vol 10 1st 2024

Eurofins Cedar Falls

3019 Venture Way

Cedar Falls IA 50613

Phone 319-277-2401 Fax 319-277-2425

Eurofins Minneapolis Chain of Custody Record

213

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Client Information		Sampler <u>Charles Bils</u>	Lab PM Bindert, Zach T	Carrier Tracking No(s)	COC No 310-107220-28610 3														
Client Contact Nathan Pukal		Phone 414-531-0079	E-Mail Zach.Bindert@eurofins.com	State of Origin Mn	Page <u>1 of 4</u> Page <u>1 of 4</u>														
Company AECOM		PWSID	Job #																
Address 4500 Park Glen Road Suite 210		Due Date Requested	Analysis Requested																
City Minneapolis		TAT Requested (days) 15 day (TOPS) / 10 day BLT	Preservation Codes N None																
State Zip MN 55416		Compliance Project. \ Yes \ No	Other																
Phone 612-376-2000(Tel)		PO # 17040 1	Total Number of containers																
Email nathan.pukal@aecom.com		WO # 60747528	Special Instructions/Note																
Project Name PFAS - TOP Assay Project		Project # 31019 09	Cooler 4 of 4																
Site St. Cloud PFAS Forensics		SSOW#	Special Instructions/Note																
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air, DW=drinking water)	Field Filled Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total PFCA_Sum	Local Method	1631_Final	List of 40 based on EPA method	BLT	1633_TOPS	Local Method	CIC_Fluorine	Adsorbable Organic Fluorine	Total Number of containers		
				Preservation Code				N	N	N	N								
MW-5		6/3/25	1225	G	Water	NN		X	X	X								7	
MW-6		6/3/25	1330	G	Water	NN		X	X	X								7	
MW-7		6/3/25	1440	G	Water	NN		X	X	X								7	
MW-8		6/3/25	1615	G	Water	NN		X	X	X								7	
Dup-7		6/3/25	0000	G	Water	NN		X	X	X								7	
Field Blank		6/4/25	1315	G	Water	NN		X	X	X								5	
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																	
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months																	
Deliverable Requested I II III IV Other (specify)		Special Instructions/QC Requirements																	
Empty Kit Relinquished by: <u>Ethel Port 2</u>		Date		Time		Method of Shipment													
Relinquished by		Date/Time		Company		Received by		Date/Time		Company									
<u>UHH</u>		6/4/25 1600		AECOM		<u>UHH</u>		6/4/25 1600		EPPNS									
		6/4/25 1700		EPPNS		<u>BP</u>		6/5/25 1335		Eurofins									
						<u>CP</u>		6/7/25 1035		Eurofins									
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No				Cooler Temperature(s) °C and Other Remarks:													
						R 2.5 C 2.3													

Ver 10.10.2024

3019 Venture Way
Cedar Falls, IA 50613
Phone: 319-277-2401 Fax: 319-277-2425

rd centered
as EUE
group
per contact

eurofins Environment Testing

[illegible]

3019 Venture Way
Cedar Falls, IA 50613
Phone: 319-277-2401 Fax: 319-277-2425

eurolins Environment Testing

7/7/2025



Environment Testing
America

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client:	AECOM		
City/State:	CITY Minneapolis	STATE MN	Project:
Receipt Information			
Date/Time Received:	DATE 6/5/25	TIME 1335	Received By BIP
Delivery Type:	☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____		
Condition of Cooler/Containers			
Sample(s) received in Cooler?	☒ Yes ☐ No	If yes: Cooler ID. _____	
Multiple Coolers?	☒ Yes ☐ No	If yes: Cooler # <u>1</u> of <u>4</u>	
Cooler Custody Seals Present?	☒ Yes ☐ No	If yes: Cooler custody seals intact? ☒ Yes ☐ No	
Sample Custody Seals Present?	☐ Yes ☒ No	If yes: Sample custody seals intact? ☐ Yes ☐ No	
Trip Blank Present?	☐ Yes ☒ No	If yes: Which VOA samples are in cooler? 1	
Temperature Record			
Coolant.	☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE		
Thermometer ID.	R	Correction Factor (°C): 0	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C).	1.4	Corrected Temp (°C) 1.4	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C).			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid)? ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login.			
Additional Comments			
307994			



Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>AeCOM</u>			
City/State: <u>Minneapolis</u>	STATE: <u>MN</u>	Project:	
Receipt Information			
Date/Time Received: <u>6/5/25</u>	DATE: <u>6/5/25</u>	TIME: <u>1335</u>	Received By: <u>BP</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee			
☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? ☒ Yes ☐ No		If yes: Cooler ID: _____	
Multiple Coolers? ☒ Yes ☐ No		If yes: Cooler # <u>2</u> of <u>4</u>	
Cooler Custody Seals Present? ☒ Yes ☐ No		If yes: Cooler custody seals intact? ☒ Yes ☐ No	
Sample Custody Seals Present? ☐ Yes ☒ No		If yes: Sample custody seals intact? ☐ Yes ☐ No	
Trip Blank Present? ☐ Yes ☒ No		If yes: Which VOA samples are in cooler? <u>1</u>	
Temperature Record			
Coolant: ☒ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>R</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>1.8</u>		Corrected Temp (°C): <u>1.8</u>	
• Sample Container Temperature			
Container(s) used: _____		CONTAINER 1: _____ CONTAINER 2: _____	
Uncorrected Temp (°C): _____			
Corrected Temp (°C): _____			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No			
a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>AECOM</u>			
City/State: <u>MINN</u> <u>Minneapolis</u>	STATE: <u>MINN</u>	Project:	
Receipt Information			
Date/Time Received: <u>6/5/25</u> <u>1335</u>	DATE	TIME	Received By: <u>BP</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Speed-Dee			
☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? ☒ Yes ☐ No		If yes: Cooler ID: _____	
Multiple Coolers? ☒ Yes ☐ No		If yes: Cooler # <u>3</u> of <u>4</u>	
Cooler Custody Seals Present? ☒ Yes ☐ No		If yes: Cooler custody seals intact? ☒ Yes ☐ No	
Sample Custody Seals Present? ☐ Yes ☒ No		If yes: Sample custody seals intact? ☐ Yes ☐ No	
Trip Blank Present? ☐ Yes ☒ No If yes: Which VOA samples are in cooler? <u>1</u>			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>R</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>1.7</u>		Corrected Temp (°C): <u>1.7</u>	
• Sample Container Temperature			
Container(s) used: _____		CONTAINER 1	
CONTAINER 2			
Uncorrected Temp (°C): _____			
Corrected Temp (°C): _____			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No			
a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid)? ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login.			
Additional Comments			
<u>received empty pl 125 ml</u>			



Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>AeCOM</u>			
City/State:	<u>Minneapolis</u>	STATE	<u>MN</u>
Project:			
Receipt Information			
Date/Time Received:	<u>6/5/25</u>	TIME	<u>1335</u>
Received By:		<u>BP</u>	
Delivery Type:	☐ UPS	☐ FedEx	☐ FedEx Ground
	☒ Lab Courier	☐ Lab Field Services	☐ Client Drop-off
	☐ US Mail ☐ Spee-Dee		
	☐ Other: _____		
Condition of Cooler/Containers			
Sample(s) Received in Cooler?	☒ Yes	☐ No	If yes: Cooler ID: <u>4</u> of <u>4</u>
Multiple Coolers?	☒ Yes	☐ No	If yes: Cooler # _____
Cooler Custody Seals Present?	☒ Yes	☐ No	If yes: Cooler custody seals intact? ☒ Yes ☐ No
Sample Custody Seals Present?	☐ Yes	☒ No	If yes: Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?	☐ Yes	☒ No	If yes: Which VOA samples are in cooler? <u>1</u>
Temperature Record			
Coolant:	☒ Wet ice	☐ Blue ice	☐ Dry ice ☐ Other: _____
	☐ NONE		
Thermometer ID:	<u>R</u>	Correction Factor (°C):	<u>0</u>
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):	<u>1.8</u>	Corrected Temp (°C):	<u>1.8</u>
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No			
a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid)? ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Login Sample Receipt Checklist

Client: AECOM

Job Number: 410-226305-1

SDG Number:

Login Number: 226305

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Cyms, Carolyn M

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	Not present.
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	



June 24, 2025

Andrew Tarara
AECOM
800 LaSalle Avenue, Suite 1100
Minneapolis, MN 55402

RE: Project: 60751065 St. Cloud PFAS Forens
Pace Project No.: 10736559

Dear Andrew Tarara:

Enclosed are the analytical results for sample(s) received by the laboratory on May 29, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read "Tina Soltani".

Tina Soltani
tina.soltani@pacelabs.com
(612) 607-6384
Project Manager

Enclosures

cc: Nathan Pukal, AECOM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

DoD Certification via A2LA #: 2926.01

EPA Region 8 Tribal Water Systems+Wyoming DW
Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

ISO/IEC 17025 Certification via A2LA #: 2926.01

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification via A2LA #: R-036

North Dakota Certification via MN #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Oklahoma Certification #: 9507

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Vermont Certification #: VT-027053137

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification via A2LA #: 2926.01

USDA Permit #: P330-19-00208

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SAMPLE SUMMARY

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10736559001	MW5-24.5-052725	Solid	05/27/25 12:20	05/29/25 13:25
10736559002	MW7-24.5-052825	Solid	05/28/25 10:10	05/29/25 13:25
10736559003	MW8-25-052825	Solid	05/28/25 14:45	05/29/25 13:25
10736559004	MW6-25-052925	Solid	05/29/25 09:05	05/29/25 13:25
10736559005	FIELD BLANK	Water	05/29/25 09:35	05/29/25 13:25

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SAMPLE ANALYTE COUNT

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10736559001	MW5-24.5-052725	ASTM D2974	JDL	1
		EPA 1633	NBH	65
10736559002	MW7-24.5-052825	ASTM D2974	JDL	1
		EPA 1633	NBH	65
10736559003	MW8-25-052825	ASTM D2974	JDL	1
		EPA 1633	NBH	65
10736559004	MW6-25-052925	ASTM D2974	JDL	1
		EPA 1633	NBH	65
10736559005	FIELD BLANK	EPA 1633	MJL	65

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10736559001	MW5-24.5-052725					
ASTM D2974	Percent Moisture	3.5	%	0.10	06/11/25 10:51	N2
10736559002	MW7-24.5-052825					
ASTM D2974	Percent Moisture	3.3	%	0.10	06/11/25 10:51	N2
10736559003	MW8-25-052825					
ASTM D2974	Percent Moisture	3.3	%	0.10	06/11/25 10:51	N2
10736559004	MW6-25-052925					
ASTM D2974	Percent Moisture	7.6	%	0.10	06/11/25 10:52	N2

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

Method: EPA 1633

Description: EPA 1633F Soil

Client: AECOM MN ND

Date: June 24, 2025

General Information:

4 samples were analyzed for EPA 1633 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 1633 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 1013093

S0: Surrogate recovery outside laboratory control limits.

- MW7-24.5-052825 (Lab ID: 10736559002)
 - 13C2-PFDoA (S)
 - 13C3-PFBS (S)
 - 13C3-PFHxS (S)
 - 13C4-PFHpA (S)
 - 13C5-PFHxA (S)
 - 13C6-PFDA (S)
 - 13C8-PFOA (S)
 - 13C8-PFOSA (S)
 - 13C9-PFNA (S)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 60751065 St. Cloud PFAS Forens
Pace Project No.: 10736559

Method: EPA 1633
Description: EPA 1633F Soil
Client: AECOM MN ND
Date: June 24, 2025

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 60751065 St. Cloud PFAS Forens
Pace Project No.: 10736559

Method: EPA 1633
Description: EPA 1633F Water
Client: AECOM MN ND
Date: June 24, 2025

General Information:

1 sample was analyzed for EPA 1633 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 1633 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

Sample: MW5-24.5-052725 Lab ID: 10736559001 Collected: 05/27/25 12:20 Received: 05/29/25 13:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974									
Analytical Method: ASTM D2974									
Pace Analytical Services - Minneapolis									
Percent Moisture	3.5	%	0.10	0.10	1		06/11/25 10:51		N2
EPA 1633F Soil									
Analytical Method: EPA 1633 Preparation Method: EPA 1633									
Pace Analytical Services - Minneapolis									
11CI-PF3OUdS	ND	ug/kg	0.79	0.15	1	06/17/25 14:06	06/18/25 13:09	763051-92-9	
3:3 FTCA	ND	ug/kg	0.98	0.26	1	06/17/25 14:06	06/18/25 13:09	356-02-5	
4:2 FTS	ND	ug/kg	0.79	0.14	1	06/17/25 14:06	06/18/25 13:09	757124-72-4	
5:3 FTCA	ND	ug/kg	4.9	1.2	1	06/17/25 14:06	06/18/25 13:09	914637-49-3	
6:2 FTS	ND	ug/kg	0.79	0.20	1	06/17/25 14:06	06/18/25 13:09	27619-97-2	
7:3 FTCA	ND	ug/kg	4.9	1.1	1	06/17/25 14:06	06/18/25 13:09	812-70-4	
8:2 FTS	ND	ug/kg	0.79	0.20	1	06/17/25 14:06	06/18/25 13:09	39108-34-4	
9CI-PF3ONS	ND	ug/kg	0.79	0.18	1	06/17/25 14:06	06/18/25 13:09	756426-58-1	
ADONA	ND	ug/kg	0.79	0.18	1	06/17/25 14:06	06/18/25 13:09	919005-14-4	
HFPO-DA	ND	ug/kg	0.79	0.19	1	06/17/25 14:06	06/18/25 13:09	13252-13-6	
NEtFOSAA	ND	ug/kg	0.20	0.073	1	06/17/25 14:06	06/18/25 13:09	2991-50-6	
NEtFOSA	ND	ug/kg	0.20	0.051	1	06/17/25 14:06	06/18/25 13:09	4151-50-2	
NEtFOSE	ND	ug/kg	2.0	0.38	1	06/17/25 14:06	06/18/25 13:09	1691-99-2	
NFDHA	ND	ug/kg	0.39	0.13	1	06/17/25 14:06	06/18/25 13:09	151772-58-6	
NMeFOSAA	ND	ug/kg	0.20	0.053	1	06/17/25 14:06	06/18/25 13:09	2355-31-9	
NMeFOSA	ND	ug/kg	0.20	0.059	1	06/17/25 14:06	06/18/25 13:09	31506-32-8	
NMeFOSE	ND	ug/kg	2.0	0.45	1	06/17/25 14:06	06/18/25 13:09	24448-09-7	
PFBS	ND	ug/kg	0.20	0.037	1	06/17/25 14:06	06/18/25 13:09	375-73-5	
PFDA	ND	ug/kg	0.20	0.046	1	06/17/25 14:06	06/18/25 13:09	335-76-2	
PFHxA	ND	ug/kg	0.20	0.044	1	06/17/25 14:06	06/18/25 13:09	307-24-4	
PFBA	ND	ug/kg	0.79	0.21	1	06/17/25 14:06	06/18/25 13:09	375-22-4	
PFDS	ND	ug/kg	0.20	0.057	1	06/17/25 14:06	06/18/25 13:09	335-77-3	
PFDoS	ND	ug/kg	0.20	0.042	1	06/17/25 14:06	06/18/25 13:09	79780-39-5	
PFEESA	ND	ug/kg	0.39	0.081	1	06/17/25 14:06	06/18/25 13:09	113507-82-7	
PFHpS	ND	ug/kg	0.20	0.059	1	06/17/25 14:06	06/18/25 13:09	375-92-8	
PFMBA	ND	ug/kg	0.39	0.095	1	06/17/25 14:06	06/18/25 13:09	863090-89-5	
PFMPA	ND	ug/kg	0.39	0.12	1	06/17/25 14:06	06/18/25 13:09	377-73-1	
PFNS	ND	ug/kg	0.20	0.052	1	06/17/25 14:06	06/18/25 13:09	68259-12-1	
PFOSA	ND	ug/kg	0.20	0.043	1	06/17/25 14:06	06/18/25 13:09	754-91-6	
PFPeA	ND	ug/kg	0.39	0.084	1	06/17/25 14:06	06/18/25 13:09	2706-90-3	
PFPeS	ND	ug/kg	0.20	0.047	1	06/17/25 14:06	06/18/25 13:09	2706-91-4	
PFDoA	ND	ug/kg	0.20	0.044	1	06/17/25 14:06	06/18/25 13:09	307-55-1	
PFHpA	ND	ug/kg	0.20	0.077	1	06/17/25 14:06	06/18/25 13:09	375-85-9	
PFHxS	ND	ug/kg	0.20	0.048	1	06/17/25 14:06	06/18/25 13:09	355-46-4	
PFNA	ND	ug/kg	0.20	0.055	1	06/17/25 14:06	06/18/25 13:09	375-95-1	
PFOS	ND	ug/kg	0.20	0.039	1	06/17/25 14:06	06/18/25 13:09	1763-23-1	
PFOA	ND	ug/kg	0.20	0.049	1	06/17/25 14:06	06/18/25 13:09	335-67-1	
PFTeDA	ND	ug/kg	0.20	0.049	1	06/17/25 14:06	06/18/25 13:09	376-06-7	
PFTTrDA	ND	ug/kg	0.20	0.041	1	06/17/25 14:06	06/18/25 13:09	72629-94-8	
PFUnA	ND	ug/kg	0.20	0.047	1	06/17/25 14:06	06/18/25 13:09	2058-94-8	

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ANALYTICAL RESULTS

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

Sample: MW5-24.5-052725 Lab ID: 10736559001 Collected: 05/27/25 12:20 Received: 05/29/25 13:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Soil									
Analytical Method: EPA 1633 Preparation Method: EPA 1633									
Pace Analytical Services - Minneapolis									
Surrogates									
13C2-PFDoA (S)	69	%	40-130		1	06/17/25 14:06	06/18/25 13:09		
13C3HFPO-DA (S)	71	%	40-130		1	06/17/25 14:06	06/18/25 13:09		
13C3-PFBS (S)	70	%	40-135		1	06/17/25 14:06	06/18/25 13:09		
13C3-PFHxS (S)	72	%	40-130		1	06/17/25 14:06	06/18/25 13:09		
13C4-PFBA (S)	50	%	8-130		1	06/17/25 14:06	06/18/25 13:09		
13C4-PFHpA (S)	65	%	40-130		1	06/17/25 14:06	06/18/25 13:09		
13C5-PFHxA (S)	66	%	40-130		1	06/17/25 14:06	06/18/25 13:09		
13C5-PFPeA (S)	70	%	35-130		1	06/17/25 14:06	06/18/25 13:09		
13C6-PFDA (S)	71	%	40-130		1	06/17/25 14:06	06/18/25 13:09		
13C8-PFOA (S)	69	%	40-130		1	06/17/25 14:06	06/18/25 13:09		
13C8-PFOS (S)	69	%	40-130		1	06/17/25 14:06	06/18/25 13:09		
13C8-PFOSA (S)	63	%	40-130		1	06/17/25 14:06	06/18/25 13:09		
13C9-PFNA (S)	69	%	40-130		1	06/17/25 14:06	06/18/25 13:09		
d3-MeFOSAA (S)	76	%	40-135		1	06/17/25 14:06	06/18/25 13:09		
d3-NMeFOSA (S)	63	%	10-130		1	06/17/25 14:06	06/18/25 13:09		
d5-EtFOSAA (S)	78	%	40-150		1	06/17/25 14:06	06/18/25 13:09		
d5-NEtFOSA (S)	74	%	10-130		1	06/17/25 14:06	06/18/25 13:09		
d7-NMeFOSE (S)	69	%	20-130		1	06/17/25 14:06	06/18/25 13:09		
d9-NEtFOSE (S)	92	%	15-130		1	06/17/25 14:06	06/18/25 13:09		
13C2-PFTA (S)	72	%	20-130		1	06/17/25 14:06	06/18/25 13:09		
13C7-PFUdA (S)	79	%	40-130		1	06/17/25 14:06	06/18/25 13:09		
13C24:2FTS (S)	76	%	40-135		1	06/17/25 14:06	06/18/25 13:09		
13C26:2FTS (S)	87	%	40-215		1	06/17/25 14:06	06/18/25 13:09		
13C28:2FTS (S)	94	%	40-275		1	06/17/25 14:06	06/18/25 13:09		
13C3-PFPrA (S)	32	%	8-130		1	06/17/25 14:06	06/18/25 13:09		

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ANALYTICAL RESULTS

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

Sample: MW7-24.5-052825 Lab ID: 10736559002 Collected: 05/28/25 10:10 Received: 05/29/25 13:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974									
Analytical Method: ASTM D2974									
Pace Analytical Services - Minneapolis									
Percent Moisture	3.3	%	0.10	0.10	1		06/11/25 10:51		N2
EPA 1633F Soil									
Analytical Method: EPA 1633 Preparation Method: EPA 1633									
Pace Analytical Services - Minneapolis									
11CI-PF3OUdS	ND	ug/kg	0.78	0.14	1	06/17/25 14:06	06/18/25 13:19	763051-92-9	
3:3 FTCA	ND	ug/kg	0.98	0.26	1	06/17/25 14:06	06/18/25 13:19	356-02-5	
4:2 FTS	ND	ug/kg	0.78	0.14	1	06/17/25 14:06	06/18/25 13:19	757124-72-4	
5:3 FTCA	ND	ug/kg	4.9	1.2	1	06/17/25 14:06	06/18/25 13:19	914637-49-3	
6:2 FTS	ND	ug/kg	0.78	0.20	1	06/17/25 14:06	06/18/25 13:19	27619-97-2	
7:3 FTCA	ND	ug/kg	4.9	1.1	1	06/17/25 14:06	06/18/25 13:19	812-70-4	
8:2 FTS	ND	ug/kg	0.78	0.20	1	06/17/25 14:06	06/18/25 13:19	39108-34-4	
9CI-PF3ONS	ND	ug/kg	0.78	0.18	1	06/17/25 14:06	06/18/25 13:19	756426-58-1	
ADONA	ND	ug/kg	0.78	0.18	1	06/17/25 14:06	06/18/25 13:19	919005-14-4	
HFPO-DA	ND	ug/kg	0.78	0.19	1	06/17/25 14:06	06/18/25 13:19	13252-13-6	
NEtFOSAA	ND	ug/kg	0.20	0.072	1	06/17/25 14:06	06/18/25 13:19	2991-50-6	
NEtFOSA	ND	ug/kg	0.20	0.051	1	06/17/25 14:06	06/18/25 13:19	4151-50-2	
NEtFOSE	ND	ug/kg	2.0	0.38	1	06/17/25 14:06	06/18/25 13:19	1691-99-2	
NFDHA	ND	ug/kg	0.39	0.13	1	06/17/25 14:06	06/18/25 13:19	151772-58-6	
NMeFOSAA	ND	ug/kg	0.20	0.053	1	06/17/25 14:06	06/18/25 13:19	2355-31-9	
NMeFOSA	ND	ug/kg	0.20	0.059	1	06/17/25 14:06	06/18/25 13:19	31506-32-8	
NMeFOSE	ND	ug/kg	2.0	0.45	1	06/17/25 14:06	06/18/25 13:19	24448-09-7	
PFBS	ND	ug/kg	0.20	0.037	1	06/17/25 14:06	06/18/25 13:19	375-73-5	
PFDA	ND	ug/kg	0.20	0.046	1	06/17/25 14:06	06/18/25 13:19	335-76-2	
PFHxA	ND	ug/kg	0.20	0.044	1	06/17/25 14:06	06/18/25 13:19	307-24-4	
PFBA	ND	ug/kg	0.78	0.21	1	06/17/25 14:06	06/18/25 13:19	375-22-4	
PFDS	ND	ug/kg	0.20	0.057	1	06/17/25 14:06	06/18/25 13:19	335-77-3	
PFDoS	ND	ug/kg	0.20	0.042	1	06/17/25 14:06	06/18/25 13:19	79780-39-5	
PFEESA	ND	ug/kg	0.39	0.081	1	06/17/25 14:06	06/18/25 13:19	113507-82-7	
PFHpS	ND	ug/kg	0.20	0.058	1	06/17/25 14:06	06/18/25 13:19	375-92-8	
PFMBA	ND	ug/kg	0.39	0.094	1	06/17/25 14:06	06/18/25 13:19	863090-89-5	
PFMPA	ND	ug/kg	0.39	0.11	1	06/17/25 14:06	06/18/25 13:19	377-73-1	
PFNS	ND	ug/kg	0.20	0.052	1	06/17/25 14:06	06/18/25 13:19	68259-12-1	
PFOSA	ND	ug/kg	0.20	0.043	1	06/17/25 14:06	06/18/25 13:19	754-91-6	
PFPeA	ND	ug/kg	0.39	0.084	1	06/17/25 14:06	06/18/25 13:19	2706-90-3	
PFPeS	ND	ug/kg	0.20	0.047	1	06/17/25 14:06	06/18/25 13:19	2706-91-4	
PFDoA	ND	ug/kg	0.20	0.044	1	06/17/25 14:06	06/18/25 13:19	307-55-1	
PFHpA	ND	ug/kg	0.20	0.076	1	06/17/25 14:06	06/18/25 13:19	375-85-9	
PFHxS	ND	ug/kg	0.20	0.048	1	06/17/25 14:06	06/18/25 13:19	355-46-4	
PFNA	ND	ug/kg	0.20	0.055	1	06/17/25 14:06	06/18/25 13:19	375-95-1	
PFOS	ND	ug/kg	0.20	0.039	1	06/17/25 14:06	06/18/25 13:19	1763-23-1	
PFOA	ND	ug/kg	0.20	0.049	1	06/17/25 14:06	06/18/25 13:19	335-67-1	
PFTeDA	ND	ug/kg	0.20	0.049	1	06/17/25 14:06	06/18/25 13:19	376-06-7	
PFTTrDA	ND	ug/kg	0.20	0.041	1	06/17/25 14:06	06/18/25 13:19	72629-94-8	
PFUnA	ND	ug/kg	0.20	0.046	1	06/17/25 14:06	06/18/25 13:19	2058-94-8	

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ANALYTICAL RESULTS

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

Sample: MW7-24.5-052825 Lab ID: 10736559002 Collected: 05/28/25 10:10 Received: 05/29/25 13:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Soil									
Analytical Method: EPA 1633 Preparation Method: EPA 1633									
Pace Analytical Services - Minneapolis									
Surrogates									
13C2-PFDoA (S)	36	%	40-130		1	06/17/25 14:06	06/18/25 13:19		S0
13C3HFPO-DA (S)	42	%	40-130		1	06/17/25 14:06	06/18/25 13:19		
13C3-PFBS (S)	39	%	40-135		1	06/17/25 14:06	06/18/25 13:19		S0
13C3-PFHxS (S)	38	%	40-130		1	06/17/25 14:06	06/18/25 13:19		S0
13C4-PFBA (S)	31	%	8-130		1	06/17/25 14:06	06/18/25 13:19		
13C4-PFHpA (S)	38	%	40-130		1	06/17/25 14:06	06/18/25 13:19		S0
13C5-PFHxA (S)	39	%	40-130		1	06/17/25 14:06	06/18/25 13:19		S0
13C5-PFPeA (S)	40	%	35-130		1	06/17/25 14:06	06/18/25 13:19		
13C6-PFDA (S)	35	%	40-130		1	06/17/25 14:06	06/18/25 13:19		S0
13C8-PFOA (S)	37	%	40-130		1	06/17/25 14:06	06/18/25 13:19		S0
13C8-PFOS (S)	41	%	40-130		1	06/17/25 14:06	06/18/25 13:19		
13C8-PFOSA (S)	34	%	40-130		1	06/17/25 14:06	06/18/25 13:19		S0
13C9-PFNA (S)	35	%	40-130		1	06/17/25 14:06	06/18/25 13:19		S0
d3-MeFOSAA (S)	44	%	40-135		1	06/17/25 14:06	06/18/25 13:19		
d3-NMeFOSA (S)	35	%	10-130		1	06/17/25 14:06	06/18/25 13:19		
d5-EtFOSAA (S)	44	%	40-150		1	06/17/25 14:06	06/18/25 13:19		
d5-NEtFOSA (S)	39	%	10-130		1	06/17/25 14:06	06/18/25 13:19		
d7-NMeFOSE (S)	39	%	20-130		1	06/17/25 14:06	06/18/25 13:19		
d9-NEtFOSE (S)	52	%	15-130		1	06/17/25 14:06	06/18/25 13:19		
13C2-PFTA (S)	37	%	20-130		1	06/17/25 14:06	06/18/25 13:19		
13C7-PFUdA (S)	41	%	40-130		1	06/17/25 14:06	06/18/25 13:19		
13C24:2FTS (S)	46	%	40-135		1	06/17/25 14:06	06/18/25 13:19		
13C26:2FTS (S)	49	%	40-215		1	06/17/25 14:06	06/18/25 13:19		
13C28:2FTS (S)	50	%	40-275		1	06/17/25 14:06	06/18/25 13:19		
13C3-PFPrA (S)	19	%	8-130		1	06/17/25 14:06	06/18/25 13:19		

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ANALYTICAL RESULTS

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

Sample: MW8-25-052825 Lab ID: 10736559003 Collected: 05/28/25 14:45 Received: 05/29/25 13:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974									
Analytical Method: ASTM D2974									
Pace Analytical Services - Minneapolis									
Percent Moisture	3.3	%	0.10	0.10	1		06/11/25 10:51		N2
EPA 1633F Soil									
Analytical Method: EPA 1633 Preparation Method: EPA 1633									
Pace Analytical Services - Minneapolis									
11CI-PF3OUdS	ND	ug/kg	0.79	0.15	1	06/17/25 14:06	06/18/25 13:29	763051-92-9	
3:3 FTCA	ND	ug/kg	0.98	0.26	1	06/17/25 14:06	06/18/25 13:29	356-02-5	
4:2 FTS	ND	ug/kg	0.79	0.14	1	06/17/25 14:06	06/18/25 13:29	757124-72-4	
5:3 FTCA	ND	ug/kg	4.9	1.2	1	06/17/25 14:06	06/18/25 13:29	914637-49-3	
6:2 FTS	ND	ug/kg	0.79	0.20	1	06/17/25 14:06	06/18/25 13:29	27619-97-2	
7:3 FTCA	ND	ug/kg	4.9	1.1	1	06/17/25 14:06	06/18/25 13:29	812-70-4	
8:2 FTS	ND	ug/kg	0.79	0.20	1	06/17/25 14:06	06/18/25 13:29	39108-34-4	
9CI-PF3ONS	ND	ug/kg	0.79	0.18	1	06/17/25 14:06	06/18/25 13:29	756426-58-1	
ADONA	ND	ug/kg	0.79	0.18	1	06/17/25 14:06	06/18/25 13:29	919005-14-4	
HFPO-DA	ND	ug/kg	0.79	0.19	1	06/17/25 14:06	06/18/25 13:29	13252-13-6	
NEtFOSAA	ND	ug/kg	0.20	0.073	1	06/17/25 14:06	06/18/25 13:29	2991-50-6	
NEtFOSA	ND	ug/kg	0.20	0.051	1	06/17/25 14:06	06/18/25 13:29	4151-50-2	
NEtFOSE	ND	ug/kg	2.0	0.38	1	06/17/25 14:06	06/18/25 13:29	1691-99-2	
NFDHA	ND	ug/kg	0.39	0.13	1	06/17/25 14:06	06/18/25 13:29	151772-58-6	
NMeFOSAA	ND	ug/kg	0.20	0.053	1	06/17/25 14:06	06/18/25 13:29	2355-31-9	
NMeFOSA	ND	ug/kg	0.20	0.059	1	06/17/25 14:06	06/18/25 13:29	31506-32-8	
NMeFOSE	ND	ug/kg	2.0	0.45	1	06/17/25 14:06	06/18/25 13:29	24448-09-7	
PFBS	ND	ug/kg	0.20	0.037	1	06/17/25 14:06	06/18/25 13:29	375-73-5	
PFDA	ND	ug/kg	0.20	0.046	1	06/17/25 14:06	06/18/25 13:29	335-76-2	
PFHxA	ND	ug/kg	0.20	0.044	1	06/17/25 14:06	06/18/25 13:29	307-24-4	
PFBA	ND	ug/kg	0.79	0.21	1	06/17/25 14:06	06/18/25 13:29	375-22-4	
PFDS	ND	ug/kg	0.20	0.057	1	06/17/25 14:06	06/18/25 13:29	335-77-3	
PFDoS	ND	ug/kg	0.20	0.042	1	06/17/25 14:06	06/18/25 13:29	79780-39-5	
PFEESA	ND	ug/kg	0.39	0.081	1	06/17/25 14:06	06/18/25 13:29	113507-82-7	
PFHpS	ND	ug/kg	0.20	0.058	1	06/17/25 14:06	06/18/25 13:29	375-92-8	
PFMBA	ND	ug/kg	0.39	0.094	1	06/17/25 14:06	06/18/25 13:29	863090-89-5	
PFMPA	ND	ug/kg	0.39	0.11	1	06/17/25 14:06	06/18/25 13:29	377-73-1	
PFNS	ND	ug/kg	0.20	0.052	1	06/17/25 14:06	06/18/25 13:29	68259-12-1	
PFOSA	ND	ug/kg	0.20	0.043	1	06/17/25 14:06	06/18/25 13:29	754-91-6	
PFPeA	ND	ug/kg	0.39	0.084	1	06/17/25 14:06	06/18/25 13:29	2706-90-3	
PFPeS	ND	ug/kg	0.20	0.047	1	06/17/25 14:06	06/18/25 13:29	2706-91-4	
PFDoA	ND	ug/kg	0.20	0.044	1	06/17/25 14:06	06/18/25 13:29	307-55-1	
PFHpA	ND	ug/kg	0.20	0.077	1	06/17/25 14:06	06/18/25 13:29	375-85-9	
PFHxS	ND	ug/kg	0.20	0.048	1	06/17/25 14:06	06/18/25 13:29	355-46-4	
PFNA	ND	ug/kg	0.20	0.055	1	06/17/25 14:06	06/18/25 13:29	375-95-1	
PFOS	ND	ug/kg	0.20	0.039	1	06/17/25 14:06	06/18/25 13:29	1763-23-1	
PFOA	ND	ug/kg	0.20	0.049	1	06/17/25 14:06	06/18/25 13:29	335-67-1	
PFTeDA	ND	ug/kg	0.20	0.049	1	06/17/25 14:06	06/18/25 13:29	376-06-7	
PFTTrDA	ND	ug/kg	0.20	0.041	1	06/17/25 14:06	06/18/25 13:29	72629-94-8	
PFUnA	ND	ug/kg	0.20	0.047	1	06/17/25 14:06	06/18/25 13:29	2058-94-8	

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ANALYTICAL RESULTS

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

Sample: MW8-25-052825 Lab ID: 10736559003 Collected: 05/28/25 14:45 Received: 05/29/25 13:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Soil									
Analytical Method: EPA 1633 Preparation Method: EPA 1633									
Pace Analytical Services - Minneapolis									
Surrogates									
13C2-PFDoA (S)	50	%	40-130		1	06/17/25 14:06	06/18/25 13:29		
13C3HFPO-DA (S)	58	%	40-130		1	06/17/25 14:06	06/18/25 13:29		
13C3-PFBS (S)	53	%	40-135		1	06/17/25 14:06	06/18/25 13:29		
13C3-PFHxS (S)	51	%	40-130		1	06/17/25 14:06	06/18/25 13:29		
13C4-PFBA (S)	37	%	8-130		1	06/17/25 14:06	06/18/25 13:29		
13C4-PFHpA (S)	53	%	40-130		1	06/17/25 14:06	06/18/25 13:29		
13C5-PFHxA (S)	51	%	40-130		1	06/17/25 14:06	06/18/25 13:29		
13C5-PFPeA (S)	54	%	35-130		1	06/17/25 14:06	06/18/25 13:29		
13C6-PFDA (S)	49	%	40-130		1	06/17/25 14:06	06/18/25 13:29		
13C8-PFOA (S)	54	%	40-130		1	06/17/25 14:06	06/18/25 13:29		
13C8-PFOS (S)	55	%	40-130		1	06/17/25 14:06	06/18/25 13:29		
13C8-PFOSA (S)	48	%	40-130		1	06/17/25 14:06	06/18/25 13:29		
13C9-PFNA (S)	49	%	40-130		1	06/17/25 14:06	06/18/25 13:29		
d3-MeFOSAA (S)	60	%	40-135		1	06/17/25 14:06	06/18/25 13:29		
d3-NMeFOSA (S)	47	%	10-130		1	06/17/25 14:06	06/18/25 13:29		
d5-EtFOSAA (S)	57	%	40-150		1	06/17/25 14:06	06/18/25 13:29		
d5-NEtFOSA (S)	52	%	10-130		1	06/17/25 14:06	06/18/25 13:29		
d7-NMeFOSE (S)	52	%	20-130		1	06/17/25 14:06	06/18/25 13:29		
d9-NEtFOSE (S)	69	%	15-130		1	06/17/25 14:06	06/18/25 13:29		
13C2-PFTA (S)	49	%	20-130		1	06/17/25 14:06	06/18/25 13:29		
13C7-PFUdA (S)	56	%	40-130		1	06/17/25 14:06	06/18/25 13:29		
13C24:2FTS (S)	59	%	40-135		1	06/17/25 14:06	06/18/25 13:29		
13C26:2FTS (S)	66	%	40-215		1	06/17/25 14:06	06/18/25 13:29		
13C28:2FTS (S)	73	%	40-275		1	06/17/25 14:06	06/18/25 13:29		
13C3-PFPrA (S)	23	%	8-130		1	06/17/25 14:06	06/18/25 13:29		

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ANALYTICAL RESULTS

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

Sample: MW6-25-052925 Lab ID: 10736559004 Collected: 05/29/25 09:05 Received: 05/29/25 13:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974									
Analytical Method: ASTM D2974									
Pace Analytical Services - Minneapolis									
Percent Moisture	7.6	%	0.10	0.10	1		06/11/25 10:52		N2
EPA 1633F Soil									
Analytical Method: EPA 1633 Preparation Method: EPA 1633									
Pace Analytical Services - Minneapolis									
11CI-PF3OUdS	ND	ug/kg	0.80	0.15	1	06/17/25 14:06	06/18/25 13:39	763051-92-9	
3:3 FTCA	ND	ug/kg	1.0	0.27	1	06/17/25 14:06	06/18/25 13:39	356-02-5	
4:2 FTS	ND	ug/kg	0.80	0.14	1	06/17/25 14:06	06/18/25 13:39	757124-72-4	
5:3 FTCA	ND	ug/kg	5.0	1.2	1	06/17/25 14:06	06/18/25 13:39	914637-49-3	
6:2 FTS	ND	ug/kg	0.80	0.20	1	06/17/25 14:06	06/18/25 13:39	27619-97-2	
7:3 FTCA	ND	ug/kg	5.0	1.1	1	06/17/25 14:06	06/18/25 13:39	812-70-4	
8:2 FTS	ND	ug/kg	0.80	0.20	1	06/17/25 14:06	06/18/25 13:39	39108-34-4	
9CI-PF3ONS	ND	ug/kg	0.80	0.19	1	06/17/25 14:06	06/18/25 13:39	756426-58-1	
ADONA	ND	ug/kg	0.80	0.18	1	06/17/25 14:06	06/18/25 13:39	919005-14-4	
HFPO-DA	ND	ug/kg	0.80	0.19	1	06/17/25 14:06	06/18/25 13:39	13252-13-6	
NEtFOSAA	ND	ug/kg	0.20	0.074	1	06/17/25 14:06	06/18/25 13:39	2991-50-6	
NEtFOSA	ND	ug/kg	0.20	0.052	1	06/17/25 14:06	06/18/25 13:39	4151-50-2	
NEtFOSE	ND	ug/kg	2.0	0.39	1	06/17/25 14:06	06/18/25 13:39	1691-99-2	
NFDHA	ND	ug/kg	0.40	0.13	1	06/17/25 14:06	06/18/25 13:39	151772-58-6	
NMeFOSAA	ND	ug/kg	0.20	0.054	1	06/17/25 14:06	06/18/25 13:39	2355-31-9	
NMeFOSA	ND	ug/kg	0.20	0.060	1	06/17/25 14:06	06/18/25 13:39	31506-32-8	
NMeFOSE	ND	ug/kg	2.0	0.46	1	06/17/25 14:06	06/18/25 13:39	24448-09-7	
PFBS	ND	ug/kg	0.20	0.038	1	06/17/25 14:06	06/18/25 13:39	375-73-5	
PFDA	ND	ug/kg	0.20	0.047	1	06/17/25 14:06	06/18/25 13:39	335-76-2	
PFHxA	ND	ug/kg	0.20	0.045	1	06/17/25 14:06	06/18/25 13:39	307-24-4	
PFBA	ND	ug/kg	0.80	0.21	1	06/17/25 14:06	06/18/25 13:39	375-22-4	
PFDS	ND	ug/kg	0.20	0.058	1	06/17/25 14:06	06/18/25 13:39	335-77-3	
PFDoS	ND	ug/kg	0.20	0.042	1	06/17/25 14:06	06/18/25 13:39	79780-39-5	
PFEESA	ND	ug/kg	0.40	0.082	1	06/17/25 14:06	06/18/25 13:39	113507-82-7	
PFHpS	ND	ug/kg	0.20	0.059	1	06/17/25 14:06	06/18/25 13:39	375-92-8	
PFMBA	ND	ug/kg	0.40	0.096	1	06/17/25 14:06	06/18/25 13:39	863090-89-5	
PFMPA	ND	ug/kg	0.40	0.12	1	06/17/25 14:06	06/18/25 13:39	377-73-1	
PFNS	ND	ug/kg	0.20	0.053	1	06/17/25 14:06	06/18/25 13:39	68259-12-1	
PFOSA	ND	ug/kg	0.20	0.044	1	06/17/25 14:06	06/18/25 13:39	754-91-6	
PFPeA	ND	ug/kg	0.40	0.086	1	06/17/25 14:06	06/18/25 13:39	2706-90-3	
PFPeS	ND	ug/kg	0.20	0.048	1	06/17/25 14:06	06/18/25 13:39	2706-91-4	
PFDoA	ND	ug/kg	0.20	0.045	1	06/17/25 14:06	06/18/25 13:39	307-55-1	
PFHpA	ND	ug/kg	0.20	0.078	1	06/17/25 14:06	06/18/25 13:39	375-85-9	
PFHxS	ND	ug/kg	0.20	0.049	1	06/17/25 14:06	06/18/25 13:39	355-46-4	
PFNA	ND	ug/kg	0.20	0.056	1	06/17/25 14:06	06/18/25 13:39	375-95-1	
PFOS	ND	ug/kg	0.20	0.040	1	06/17/25 14:06	06/18/25 13:39	1763-23-1	
PFOA	ND	ug/kg	0.20	0.050	1	06/17/25 14:06	06/18/25 13:39	335-67-1	
PFTeDA	ND	ug/kg	0.20	0.050	1	06/17/25 14:06	06/18/25 13:39	376-06-7	
PFTTrDA	ND	ug/kg	0.20	0.042	1	06/17/25 14:06	06/18/25 13:39	72629-94-8	
PFUnA	ND	ug/kg	0.20	0.047	1	06/17/25 14:06	06/18/25 13:39	2058-94-8	

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ANALYTICAL RESULTS

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

Sample: MW6-25-052925 Lab ID: 10736559004 Collected: 05/29/25 09:05 Received: 05/29/25 13:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Soil									
Analytical Method: EPA 1633 Preparation Method: EPA 1633									
Pace Analytical Services - Minneapolis									
Surrogates									
13C2-PFDoA (S)	50	%.	40-130		1	06/17/25 14:06	06/18/25 13:39		
13C3HFPO-DA (S)	54	%.	40-130		1	06/17/25 14:06	06/18/25 13:39		
13C3-PFBS (S)	51	%.	40-135		1	06/17/25 14:06	06/18/25 13:39		
13C3-PFHxS (S)	51	%.	40-130		1	06/17/25 14:06	06/18/25 13:39		
13C4-PFBA (S)	37	%.	8-130		1	06/17/25 14:06	06/18/25 13:39		
13C4-PFHpA (S)	50	%.	40-130		1	06/17/25 14:06	06/18/25 13:39		
13C5-PFHxA (S)	50	%.	40-130		1	06/17/25 14:06	06/18/25 13:39		
13C5-PFPeA (S)	50	%.	35-130		1	06/17/25 14:06	06/18/25 13:39		
13C6-PFDA (S)	51	%.	40-130		1	06/17/25 14:06	06/18/25 13:39		
13C8-PFOA (S)	50	%.	40-130		1	06/17/25 14:06	06/18/25 13:39		
13C8-PFOS (S)	51	%.	40-130		1	06/17/25 14:06	06/18/25 13:39		
13C8-PFOSA (S)	45	%.	40-130		1	06/17/25 14:06	06/18/25 13:39		
13C9-PFNA (S)	49	%.	40-130		1	06/17/25 14:06	06/18/25 13:39		
d3-MeFOSAA (S)	57	%.	40-135		1	06/17/25 14:06	06/18/25 13:39		
d3-NMeFOSA (S)	45	%.	10-130		1	06/17/25 14:06	06/18/25 13:39		
d5-EtFOSAA (S)	55	%.	40-150		1	06/17/25 14:06	06/18/25 13:39		
d5-NEtFOSA (S)	53	%.	10-130		1	06/17/25 14:06	06/18/25 13:39		
d7-NMeFOSE (S)	50	%.	20-130		1	06/17/25 14:06	06/18/25 13:39		
d9-NEtFOSE (S)	66	%.	15-130		1	06/17/25 14:06	06/18/25 13:39		
13C2-PFTA (S)	50	%.	20-130		1	06/17/25 14:06	06/18/25 13:39		
13C7-PFUdA (S)	58	%.	40-130		1	06/17/25 14:06	06/18/25 13:39		
13C24:2FTS (S)	57	%.	40-135		1	06/17/25 14:06	06/18/25 13:39		
13C26:2FTS (S)	63	%.	40-215		1	06/17/25 14:06	06/18/25 13:39		
13C28:2FTS (S)	70	%.	40-275		1	06/17/25 14:06	06/18/25 13:39		
13C3-PFPrA (S)	24	%.	8-130		1	06/17/25 14:06	06/18/25 13:39		

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ANALYTICAL RESULTS

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

Sample: FIELD BLANK Lab ID: 10736559005 Collected: 05/29/25 09:35 Received: 05/29/25 13:25 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Water Analytical Method: EPA 1633 Preparation Method: EPA 1633 Pace Analytical Services - Minneapolis									
11CI-PF3OUdS	ND	ng/L	6.2	1.9	1	06/17/25 06:55	06/17/25 22:47	763051-92-9	
3:3 FTCA	ND	ng/L	7.7	2.1	1	06/17/25 06:55	06/17/25 22:47	356-02-5	
4:2 FTS	ND	ng/L	6.2	1.5	1	06/17/25 06:55	06/17/25 22:47	757124-72-4	
5:3 FTCA	ND	ng/L	38.5	9.2	1	06/17/25 06:55	06/17/25 22:47	914637-49-3	
6:2 FTS	ND	ng/L	6.2	1.8	1	06/17/25 06:55	06/17/25 22:47	27619-97-2	
7:3 FTCA	ND	ng/L	38.5	11.0	1	06/17/25 06:55	06/17/25 22:47	812-70-4	
8:2 FTS	ND	ng/L	6.2	1.6	1	06/17/25 06:55	06/17/25 22:47	39108-34-4	
9CI-PF3ONS	ND	ng/L	6.2	1.6	1	06/17/25 06:55	06/17/25 22:47	756426-58-1	
ADONA	ND	ng/L	6.2	1.8	1	06/17/25 06:55	06/17/25 22:47	919005-14-4	
HFPO-DA	ND	ng/L	6.2	1.7	1	06/17/25 06:55	06/17/25 22:47	13252-13-6	
NEtFOSAA	ND	ng/L	1.5	0.64	1	06/17/25 06:55	06/17/25 22:47	2991-50-6	
NEtFOSA	ND	ng/L	1.5	0.49	1	06/17/25 06:55	06/17/25 22:47	4151-50-2	
NEtFOSE	ND	ng/L	15.4	4.0	1	06/17/25 06:55	06/17/25 22:47	1691-99-2	
NFDHA	ND	ng/L	3.1	1.3	1	06/17/25 06:55	06/17/25 22:47	151772-58-6	
NMeFOSAA	ND	ng/L	1.5	0.48	1	06/17/25 06:55	06/17/25 22:47	2355-31-9	
NMeFOSA	ND	ng/L	1.5	0.47	1	06/17/25 06:55	06/17/25 22:47	31506-32-8	
NMeFOSE	ND	ng/L	15.4	4.0	1	06/17/25 06:55	06/17/25 22:47	24448-09-7	
PFBS	ND	ng/L	1.5	0.40	1	06/17/25 06:55	06/17/25 22:47	375-73-5	
PFDA	ND	ng/L	1.5	0.48	1	06/17/25 06:55	06/17/25 22:47	335-76-2	
PFHxA	ND	ng/L	1.5	0.37	1	06/17/25 06:55	06/17/25 22:47	307-24-4	
PFBA	ND	ng/L	6.2	1.5	1	06/17/25 06:55	06/17/25 22:47	375-22-4	
PFDS	ND	ng/L	1.5	0.66	1	06/17/25 06:55	06/17/25 22:47	335-77-3	
PFDoS	ND	ng/L	1.5	0.33	1	06/17/25 06:55	06/17/25 22:47	79780-39-5	
PFEESA	ND	ng/L	3.1	0.67	1	06/17/25 06:55	06/17/25 22:47	113507-82-7	
PFHpS	ND	ng/L	1.5	0.45	1	06/17/25 06:55	06/17/25 22:47	375-92-8	
PFMBA	ND	ng/L	3.1	0.75	1	06/17/25 06:55	06/17/25 22:47	863090-89-5	
PFMPA	ND	ng/L	3.1	0.60	1	06/17/25 06:55	06/17/25 22:47	377-73-1	
PFNS	ND	ng/L	1.5	0.45	1	06/17/25 06:55	06/17/25 22:47	68259-12-1	
PFOSA	ND	ng/L	1.5	0.47	1	06/17/25 06:55	06/17/25 22:47	754-91-6	
PFPeA	ND	ng/L	3.1	0.92	1	06/17/25 06:55	06/17/25 22:47	2706-90-3	
PFPeS	ND	ng/L	1.5	0.36	1	06/17/25 06:55	06/17/25 22:47	2706-91-4	
PFDaA	ND	ng/L	1.5	0.47	1	06/17/25 06:55	06/17/25 22:47	307-55-1	
PFHpA	ND	ng/L	1.5	0.59	1	06/17/25 06:55	06/17/25 22:47	375-85-9	
PFHxS	ND	ng/L	1.5	0.39	1	06/17/25 06:55	06/17/25 22:47	355-46-4	
PFNA	ND	ng/L	1.5	0.50	1	06/17/25 06:55	06/17/25 22:47	375-95-1	
PFOS	ND	ng/L	1.5	0.38	1	06/17/25 06:55	06/17/25 22:47	1763-23-1	
PFOA	ND	ng/L	1.5	0.47	1	06/17/25 06:55	06/17/25 22:47	335-67-1	
PFTeDA	ND	ng/L	1.5	0.40	1	06/17/25 06:55	06/17/25 22:47	376-06-7	
PFTTrDA	ND	ng/L	1.5	0.44	1	06/17/25 06:55	06/17/25 22:47	72629-94-8	
PFUnA	ND	ng/L	1.5	0.34	1	06/17/25 06:55	06/17/25 22:47	2058-94-8	
Surrogates									
13C2-PFDaA (S)	67	%.	10-130		1	06/17/25 06:55	06/17/25 22:47		
13C3HFPO-DA (S)	85	%.	40-130		1	06/17/25 06:55	06/17/25 22:47		
13C3-PFBS (S)	84	%.	40-135		1	06/17/25 06:55	06/17/25 22:47		
13C3-PFHxS (S)	76	%.	40-130		1	06/17/25 06:55	06/17/25 22:47		

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ANALYTICAL RESULTS

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

Sample: FIELD BLANK		Lab ID: 10736559005		Collected: 05/29/25 09:35		Received: 05/29/25 13:25		Matrix: Water	
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
EPA 1633F Water		Analytical Method: EPA 1633 Preparation Method: EPA 1633 Pace Analytical Services - Minneapolis							
Surrogates									
13C4-PFBA (S)	84	%.	5-130		1	06/17/25 06:55	06/17/25 22:47		
13C4-PFHpA (S)	77	%.	40-130		1	06/17/25 06:55	06/17/25 22:47		
13C5-PFHxA (S)	82	%.	40-130		1	06/17/25 06:55	06/17/25 22:47		
13C5-PFPeA (S)	86	%.	40-130		1	06/17/25 06:55	06/17/25 22:47		
13C6-PFDA (S)	74	%.	40-130		1	06/17/25 06:55	06/17/25 22:47		
13C8-PFOA (S)	80	%.	40-130		1	06/17/25 06:55	06/17/25 22:47		
13C8-PFOS (S)	77	%.	40-130		1	06/17/25 06:55	06/17/25 22:47		
13C8-PFOSA (S)	72	%.	40-130		1	06/17/25 06:55	06/17/25 22:47		
13C9-PFNA (S)	73	%.	40-130		1	06/17/25 06:55	06/17/25 22:47		
d3-MeFOSAA (S)	87	%.	40-170		1	06/17/25 06:55	06/17/25 22:47		
d3-NMeFOSA (S)	59	%.	10-130		1	06/17/25 06:55	06/17/25 22:47		
d5-EtFOSAA (S)	83	%.	25-135		1	06/17/25 06:55	06/17/25 22:47		
d5-NEtFOSA (S)	55	%.	10-130		1	06/17/25 06:55	06/17/25 22:47		
d7-NMeFOSE (S)	78	%.	10-130		1	06/17/25 06:55	06/17/25 22:47		
d9-NEtFOSE (S)	95	%.	10-130		1	06/17/25 06:55	06/17/25 22:47		
13C2-PFTA (S)	69	%.	10-130		1	06/17/25 06:55	06/17/25 22:47		
13C7-PFUdA (S)	74	%.	30-130		1	06/17/25 06:55	06/17/25 22:47		
13C24:2FTS (S)	127	%.	40-200		1	06/17/25 06:55	06/17/25 22:47		
13C26:2FTS (S)	120	%.	40-200		1	06/17/25 06:55	06/17/25 22:47		
13C28:2FTS (S)	122	%.	40-300		1	06/17/25 06:55	06/17/25 22:47		
13C3-PFPrA (S)	92	%.	5-130		1	06/17/25 06:55	06/17/25 22:47		

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QUALITY CONTROL DATA

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

QC Batch: 1012250

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight / %M by ASTM D2974

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10736559001, 10736559002, 10736559003, 10736559004

SAMPLE DUPLICATE: 5276593

Parameter	Units	10736996001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	2.3	2.3	1	30	N2

SAMPLE DUPLICATE: 5276594

Parameter	Units	10737288006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	3.7	3.7	2	30	N2

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QUALITY CONTROL DATA

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

QC Batch: 1013093

Analysis Method: EPA 1633

QC Batch Method: EPA 1633

Analysis Description: EPA 1633F Soil

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10736559001, 10736559002, 10736559003, 10736559004

METHOD BLANK: 5281381

Matrix: Solid

Associated Lab Samples: 10736559001, 10736559002, 10736559003, 10736559004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
11CI-PF3OUdS	ug/kg	ND	0.80	0.15	06/18/25 11:58	
3:3 FTCA	ug/kg	ND	1.0	0.27	06/18/25 11:58	
4:2 FTS	ug/kg	ND	0.80	0.14	06/18/25 11:58	
5:3 FTCA	ug/kg	ND	5.0	1.2	06/18/25 11:58	
6:2 FTS	ug/kg	ND	0.80	0.20	06/18/25 11:58	
7:3 FTCA	ug/kg	ND	5.0	1.1	06/18/25 11:58	
8:2 FTS	ug/kg	ND	0.80	0.20	06/18/25 11:58	
9CI-PF3ONS	ug/kg	ND	0.80	0.19	06/18/25 11:58	
ADONA	ug/kg	ND	0.80	0.18	06/18/25 11:58	
HFPO-DA	ug/kg	ND	0.80	0.19	06/18/25 11:58	
NETFOSA	ug/kg	ND	0.20	0.052	06/18/25 11:58	
NETFOSAA	ug/kg	ND	0.20	0.074	06/18/25 11:58	
NETFOSE	ug/kg	ND	2.0	0.39	06/18/25 11:58	
NFDHA	ug/kg	ND	0.40	0.13	06/18/25 11:58	
NMeFOSA	ug/kg	ND	0.20	0.060	06/18/25 11:58	
NMeFOSAA	ug/kg	ND	0.20	0.054	06/18/25 11:58	
NMeFOSE	ug/kg	ND	2.0	0.46	06/18/25 11:58	
PFBA	ug/kg	ND	0.80	0.21	06/18/25 11:58	
PFBS	ug/kg	ND	0.20	0.038	06/18/25 11:58	
PFDA	ug/kg	ND	0.20	0.047	06/18/25 11:58	
PFDaA	ug/kg	ND	0.20	0.045	06/18/25 11:58	
PFDoS	ug/kg	ND	0.20	0.042	06/18/25 11:58	
PFDS	ug/kg	ND	0.20	0.058	06/18/25 11:58	
PFEESA	ug/kg	ND	0.40	0.083	06/18/25 11:58	
PFHpA	ug/kg	ND	0.20	0.078	06/18/25 11:58	
PFHpS	ug/kg	ND	0.20	0.060	06/18/25 11:58	
PFHxA	ug/kg	ND	0.20	0.045	06/18/25 11:58	
PFHxS	ug/kg	ND	0.20	0.049	06/18/25 11:58	
PFMBA	ug/kg	ND	0.40	0.096	06/18/25 11:58	
PFMPA	ug/kg	ND	0.40	0.12	06/18/25 11:58	
PFNA	ug/kg	ND	0.20	0.056	06/18/25 11:58	
PFNS	ug/kg	ND	0.20	0.053	06/18/25 11:58	
PFOA	ug/kg	ND	0.20	0.050	06/18/25 11:58	
PFOS	ug/kg	ND	0.20	0.040	06/18/25 11:58	
PFOSA	ug/kg	ND	0.20	0.044	06/18/25 11:58	
PFPeA	ug/kg	ND	0.40	0.086	06/18/25 11:58	
PFPeS	ug/kg	ND	0.20	0.048	06/18/25 11:58	
PFTeDA	ug/kg	ND	0.20	0.050	06/18/25 11:58	
PFTTrDA	ug/kg	ND	0.20	0.042	06/18/25 11:58	
PFUnA	ug/kg	ND	0.20	0.048	06/18/25 11:58	

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QUALITY CONTROL DATA

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

METHOD BLANK: 5281381

Matrix: Solid

Associated Lab Samples: 10736559001, 10736559002, 10736559003, 10736559004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
13C2-PFD _o A (S)	%.	68	40-130		06/18/25 11:58	
13C2-PFTA (S)	%.	66	20-130		06/18/25 11:58	
13C24:2FTS (S)	%.	84	40-135		06/18/25 11:58	
13C26:2FTS (S)	%.	90	40-215		06/18/25 11:58	
13C28:2FTS (S)	%.	94	40-275		06/18/25 11:58	
13C3-PFBS (S)	%.	75	40-135		06/18/25 11:58	
13C3-PFH _x S (S)	%.	73	40-130		06/18/25 11:58	
13C3-PFPrA (S)	%.	38	8-130		06/18/25 11:58	
13C3HFPO-DA (S)	%.	79	40-130		06/18/25 11:58	
13C4-PFBA (S)	%.	60	8-130		06/18/25 11:58	
13C4-PFH _p A (S)	%.	72	40-130		06/18/25 11:58	
13C5-PFH _x A (S)	%.	72	40-130		06/18/25 11:58	
13C5-PFP _e A (S)	%.	74	35-130		06/18/25 11:58	
13C6-PFDA (S)	%.	70	40-130		06/18/25 11:58	
13C7-PFUD _A (S)	%.	80	40-130		06/18/25 11:58	
13C8-PFOA (S)	%.	73	40-130		06/18/25 11:58	
13C8-PFOS (S)	%.	74	40-130		06/18/25 11:58	
13C8-PFOSA (S)	%.	69	40-130		06/18/25 11:58	
13C9-PFNA (S)	%.	69	40-130		06/18/25 11:58	
d3-MeFOSAA (S)	%.	85	40-135		06/18/25 11:58	
d3-NMeFOSA (S)	%.	63	10-130		06/18/25 11:58	
d5-EtFOSAA (S)	%.	83	40-150		06/18/25 11:58	
d5-NEtFOSA (S)	%.	71	10-130		06/18/25 11:58	
d7-NMeFOSE (S)	%.	74	20-130		06/18/25 11:58	
d9-NEtFOSE (S)	%.	93	15-130		06/18/25 11:58	

LABORATORY CONTROL SAMPLE: 5281382

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ug/kg	7.5	6.4	84	45-160	
3:3 FTCA	ug/kg	9.9	7.1	72	45-130	
4:2 FTS	ug/kg	7.5	6.6	87	60-150	
5:3 FTCA	ug/kg	49.6	41.4	83	60-130	
6:2 FTS	ug/kg	7.7	6.9	90	55-200	
7:3 FTCA	ug/kg	49.6	39.9	81	60-150	
8:2 FTS	ug/kg	7.7	7.0	92	70-150	
9CI-PF3ONS	ug/kg	7.5	6.8	91	70-150	
ADONA	ug/kg	7.5	7.1	94	70-160	
HFPO-DA	ug/kg	8	7.0	88	70-145	
NEtFOSA	ug/kg	1.9	1.7	88	70-140	
NEtFOSAA	ug/kg	1.9	1.7	90	65-165	
NEtFOSE	ug/kg	19.2	16.8	87	70-135	
NFDHA	ug/kg	4	3.7	93	60-155	
NMeFOSA	ug/kg	1.9	1.8	93	70-155	

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QUALITY CONTROL DATA

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

LABORATORY CONTROL SAMPLE: 5281382

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NMeFOSAA	ug/kg	1.9	1.7	88	65-155	
NMeFOSE	ug/kg	19.2	16.6	87	70-140	
PFBA	ug/kg	8	7.0	87	70-140	
PFBS	ug/kg	1.8	1.6	92	65-145	
PFDA	ug/kg	1.9	1.8	95	70-155	
PFDaA	ug/kg	1.9	1.8	95	70-150	
PFDoS	ug/kg	1.9	1.4	72	25-160	
PFDS	ug/kg	1.9	1.6	82	40-155	
PFEESA	ug/kg	3.5	3.2	92	70-140	
PFHpA	ug/kg	1.9	1.8	93	65-145	
PFHpS	ug/kg	1.9	1.7	86	65-155	
PFHxA	ug/kg	1.9	1.7	89	65-140	
PFHxS	ug/kg	1.8	1.6	93	60-150	
PFMBA	ug/kg	4	3.5	87	60-150	
PFMPA	ug/kg	4	3.7	92	30-140	
PFNA	ug/kg	1.9	1.8	93	70-155	
PFNS	ug/kg	1.9	1.6	84	55-140	
PFOA	ug/kg	1.9	1.7	89	70-150	
PFOS	ug/kg	1.9	1.5	79	65-160	
PFOSA	ug/kg	1.9	1.7	89	70-140	
PFPeA	ug/kg	4	3.4	86	60-150	
PFPeS	ug/kg	1.9	1.7	89	55-160	
PFTeDA	ug/kg	1.9	1.6	84	65-150	
PFTrDA	ug/kg	1.9	1.8	96	65-150	
PFUnA	ug/kg	1.9	1.7	91	70-155	
13C2-PFDaA (S)	%			66	40-130	
13C2-PFTA (S)	%			63	20-130	
13C24:2FTS (S)	%			76	40-135	
13C26:2FTS (S)	%			80	40-215	
13C28:2FTS (S)	%			84	40-275	
13C3-PFBS (S)	%			72	40-135	
13C3-PFHxS (S)	%			72	40-130	
13C3-PFPrA (S)	%			38	8-130	
13C3HFPO-DA (S)	%			77	40-130	
13C4-PFBA (S)	%			61	8-130	
13C4-PFHpA (S)	%			74	40-130	
13C5-PFHxA (S)	%			75	40-130	
13C5-PFPeA (S)	%			76	35-130	
13C6-PFDA (S)	%			72	40-130	
13C7-PFUdA (S)	%			78	40-130	
13C8-PFOA (S)	%			75	40-130	
13C8-PFOS (S)	%			78	40-130	
13C8-PFOSA (S)	%			71	40-130	
13C9-PFNA (S)	%			72	40-130	
d3-MeFOSAA (S)	%			91	40-135	
d3-NMeFOSA (S)	%			67	10-130	
d5-EtFOSAA (S)	%			87	40-150	

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QUALITY CONTROL DATA

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

LABORATORY CONTROL SAMPLE: 5281382

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
d5-NEtFOSA (S)	%.			73	10-130	
d7-NMeFOSE (S)	%.			76	20-130	
d9-NEtFOSE (S)	%.			93	15-130	

LABORATORY CONTROL SAMPLE: 5281383

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ug/kg	1.5	1.2	83	45-160	
3:3 FTCA	ug/kg	2	1.4	69	45-130	
4:2 FTS	ug/kg	1.5	1.3	89	60-150	
5:3 FTCA	ug/kg	9.9	8.3	84	60-130	
6:2 FTS	ug/kg	1.5	1.4	90	55-200	
7:3 FTCA	ug/kg	9.9	7.8	79	60-150	
8:2 FTS	ug/kg	1.5	1.4	92	70-150	
9CI-PF3ONS	ug/kg	1.5	1.3	88	70-150	
ADONA	ug/kg	1.5	1.3	90	70-160	
HFPO-DA	ug/kg	1.6	1.4	87	70-145	
NEtFOSA	ug/kg	0.38	0.35	91	70-140	
NEtFOSAA	ug/kg	0.38	0.32	83	65-165	
NEtFOSE	ug/kg	3.8	3.3	86	70-135	
NFDHA	ug/kg	0.8	0.72	90	60-155	
NMeFOSA	ug/kg	0.38	0.34	89	70-155	
NMeFOSAA	ug/kg	0.38	0.33	85	65-155	
NMeFOSE	ug/kg	3.8	3.3	87	70-140	
PFBA	ug/kg	1.6	1.4	86	70-140	
PFBS	ug/kg	0.35	0.32	92	65-145	
PFDA	ug/kg	0.38	0.37	97	70-155	
PFDoA	ug/kg	0.38	0.35	91	70-150	
PFDoS	ug/kg	0.38	0.29	76	25-160	
PFDS	ug/kg	0.38	0.30	79	40-155	
PFEESA	ug/kg	0.7	0.62	88	70-140	
PFHpA	ug/kg	0.38	0.35	90	65-145	
PFHpS	ug/kg	0.38	0.32	84	65-155	
PFHxA	ug/kg	0.38	0.34	88	65-140	
PFHxS	ug/kg	0.35	0.32	90	60-150	
PFMBA	ug/kg	0.8	0.67	84	60-150	
PFMPA	ug/kg	0.8	0.73	91	30-140	
PFNA	ug/kg	0.38	0.34	89	70-155	
PFNS	ug/kg	0.38	0.32	82	55-140	
PFOA	ug/kg	0.38	0.34	89	70-150	
PFOS	ug/kg	0.38	0.34	88	65-160	
PFOSA	ug/kg	0.38	0.35	91	70-140	
PFPeA	ug/kg	0.8	0.67	84	60-150	
PFPeS	ug/kg	0.38	0.35	90	55-160	
PFTeDA	ug/kg	0.38	0.33	85	65-150	

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QUALITY CONTROL DATA

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

LABORATORY CONTROL SAMPLE: 5281383

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PFTrDA	ug/kg	0.38	0.35	91	65-150	
PFUnA	ug/kg	0.38	0.33	87	70-155	
13C2-PFDoA (S)	%.			70	40-130	
13C2-PFTA (S)	%.			67	20-130	
13C24:2FTS (S)	%.			82	40-135	
13C26:2FTS (S)	%.			86	40-215	
13C28:2FTS (S)	%.			90	40-275	
13C3-PFBS (S)	%.			73	40-135	
13C3-PFHxS (S)	%.			73	40-130	
13C3-PFPrA (S)	%.			38	8-130	
13C3HFPO-DA (S)	%.			77	40-130	
13C4-PFBA (S)	%.			61	8-130	
13C4-PFHpA (S)	%.			75	40-130	
13C5-PFHxA (S)	%.			73	40-130	
13C5-PFPeA (S)	%.			74	35-130	
13C6-PFDA (S)	%.			70	40-130	
13C7-PFUdA (S)	%.			82	40-130	
13C8-PFOA (S)	%.			77	40-130	
13C8-PFOS (S)	%.			76	40-130	
13C8-PFOSA (S)	%.			66	40-130	
13C9-PFNA (S)	%.			70	40-130	
d3-MeFOSAA (S)	%.			89	40-135	
d3-NMeFOSA (S)	%.			64	10-130	
d5-EtFOSAA (S)	%.			89	40-150	
d5-NEtFOSA (S)	%.			71	10-130	
d7-NMeFOSE (S)	%.			70	20-130	
d9-NEtFOSE (S)	%.			89	15-130	

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QUALITY CONTROL DATA

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

QC Batch: 1012941

Analysis Method: EPA 1633

QC Batch Method: EPA 1633

Analysis Description: EPA 1633F Water

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10736559005

METHOD BLANK: 5280448

Matrix: Water

Associated Lab Samples: 10736559005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
11CI-PF3OUdS	ng/L	ND	6.4	1.9	06/17/25 18:43	
3:3 FTCA	ng/L	ND	8.0	2.2	06/17/25 18:43	
4:2 FTS	ng/L	ND	6.4	1.6	06/17/25 18:43	
5:3 FTCA	ng/L	ND	40.0	9.6	06/17/25 18:43	
6:2 FTS	ng/L	ND	6.4	1.8	06/17/25 18:43	
7:3 FTCA	ng/L	ND	40.0	11.4	06/17/25 18:43	
8:2 FTS	ng/L	ND	6.4	1.7	06/17/25 18:43	
9CI-PF3ONS	ng/L	ND	6.4	1.7	06/17/25 18:43	
ADONA	ng/L	ND	6.4	1.9	06/17/25 18:43	
HFPO-DA	ng/L	ND	6.4	1.8	06/17/25 18:43	
NETFOSA	ng/L	ND	1.6	0.51	06/17/25 18:43	
NETFOSAA	ng/L	ND	1.6	0.66	06/17/25 18:43	
NETFOSE	ng/L	ND	16.0	4.1	06/17/25 18:43	
NFDHA	ng/L	ND	3.2	1.3	06/17/25 18:43	
NMeFOSA	ng/L	ND	1.6	0.49	06/17/25 18:43	
NMeFOSAA	ng/L	ND	1.6	0.50	06/17/25 18:43	
NMeFOSE	ng/L	ND	16.0	4.1	06/17/25 18:43	
PFBA	ng/L	ND	6.4	1.6	06/17/25 18:43	
PFBS	ng/L	ND	1.6	0.42	06/17/25 18:43	
PFDA	ng/L	ND	1.6	0.50	06/17/25 18:43	
PFDaA	ng/L	ND	1.6	0.49	06/17/25 18:43	
PFDoS	ng/L	ND	1.6	0.34	06/17/25 18:43	
PFDS	ng/L	ND	1.6	0.69	06/17/25 18:43	
PFEESA	ng/L	ND	3.2	0.69	06/17/25 18:43	
PFHpA	ng/L	ND	1.6	0.62	06/17/25 18:43	
PFHpS	ng/L	ND	1.6	0.47	06/17/25 18:43	
PFHxA	ng/L	ND	1.6	0.38	06/17/25 18:43	
PFHxS	ng/L	ND	1.6	0.41	06/17/25 18:43	
PFMBA	ng/L	ND	3.2	0.78	06/17/25 18:43	
PFMPA	ng/L	ND	3.2	0.62	06/17/25 18:43	
PFNA	ng/L	ND	1.6	0.52	06/17/25 18:43	
PFNS	ng/L	ND	1.6	0.47	06/17/25 18:43	
PFOA	ng/L	ND	1.6	0.49	06/17/25 18:43	
PFOS	ng/L	ND	1.6	0.39	06/17/25 18:43	
PFOSA	ng/L	ND	1.6	0.49	06/17/25 18:43	
PFPeA	ng/L	ND	3.2	0.95	06/17/25 18:43	
PFPeS	ng/L	ND	1.6	0.38	06/17/25 18:43	
PFTeDA	ng/L	ND	1.6	0.41	06/17/25 18:43	
PFTrDA	ng/L	ND	1.6	0.45	06/17/25 18:43	
PFUnA	ng/L	ND	1.6	0.36	06/17/25 18:43	

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QUALITY CONTROL DATA

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

METHOD BLANK: 5280448

Matrix: Water

Associated Lab Samples: 10736559005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
13C2-PFDoA (S)	%.	82	10-130		06/17/25 18:43	
13C2-PFTA (S)	%.	95	10-130		06/17/25 18:43	
13C24:2FTS (S)	%.	132	40-200		06/17/25 18:43	
13C26:2FTS (S)	%.	122	40-200		06/17/25 18:43	
13C28:2FTS (S)	%.	129	40-300		06/17/25 18:43	
13C3-PFBS (S)	%.	95	40-135		06/17/25 18:43	
13C3-PFHxS (S)	%.	85	40-130		06/17/25 18:43	
13C3-PFPrA (S)	%.	97	5-130		06/17/25 18:43	
13C3HFPO-DA (S)	%.	86	40-130		06/17/25 18:43	
13C4-PFBA (S)	%.	88	5-130		06/17/25 18:43	
13C4-PFHpA (S)	%.	82	40-130		06/17/25 18:43	
13C5-PFHxA (S)	%.	85	40-130		06/17/25 18:43	
13C5-PFPeA (S)	%.	90	40-130		06/17/25 18:43	
13C6-PFDA (S)	%.	85	40-130		06/17/25 18:43	
13C7-PFUDa (S)	%.	87	30-130		06/17/25 18:43	
13C8-PFOA (S)	%.	86	40-130		06/17/25 18:43	
13C8-PFOS (S)	%.	84	40-130		06/17/25 18:43	
13C8-PFOSA (S)	%.	86	40-130		06/17/25 18:43	
13C9-PFNA (S)	%.	81	40-130		06/17/25 18:43	
d3-MeFOSAA (S)	%.	100	40-170		06/17/25 18:43	
d3-NMeFOSA (S)	%.	59	10-130		06/17/25 18:43	
d5-EtFOSAA (S)	%.	107	25-135		06/17/25 18:43	
d5-NEtFOSA (S)	%.	43	10-130		06/17/25 18:43	
d7-NMeFOSE (S)	%.	124	10-130		06/17/25 18:43	
d9-NEtFOSE (S)	%.	65	10-130		06/17/25 18:43	

LABORATORY CONTROL SAMPLE: 5280449

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	75.2	73.5	98	55-160	
3:3 FTCA	ng/L	99.2	82.0	83	65-130	
4:2 FTS	ng/L	75.2	66.3	88	70-145	
5:3 FTCA	ng/L	496	453	91	70-135	
6:2 FTS	ng/L	76.8	67.0	87	65-155	
7:3 FTCA	ng/L	496	506	102	50-145	
8:2 FTS	ng/L	76.8	73.7	96	60-150	
9CI-PF3ONS	ng/L	75.2	70.9	94	70-155	
ADONA	ng/L	75.2	75.7	101	65-145	
HFPO-DA	ng/L	80	66.4	83	70-140	
NEtFOSA	ng/L	19.2	17.9	93	65-145	
NEtFOSAA	ng/L	19.2	16.1	84	70-145	
NEtFOSE	ng/L	192	178	93	70-135	
NFDHA	ng/L	40	33.5	84	50-150	
NMeFOSA	ng/L	19.2	17.8	93	60-150	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

LABORATORY CONTROL SAMPLE: 5280449

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NMeFOSAA	ng/L	19.2	17.2	90	50-140	
NMeFOSE	ng/L	192	163	85	70-145	
PFBA	ng/L	80	67.1	84	70-140	
PFBS	ng/L	17.6	15.1	86	60-145	
PFDA	ng/L	19.2	18.4	96	70-140	
PFDaA	ng/L	19.2	17.5	91	70-140	
PFDoS	ng/L	19.2	19.9	103	50-145	
PFDS	ng/L	19.2	16.7	87	60-145	
PFEESA	ng/L	35.2	32.0	91	70-140	
PFHpA	ng/L	19.2	17.7	92	70-150	
PFHpS	ng/L	19.2	16.3	85	70-150	
PFHxA	ng/L	19.2	17.6	92	70-145	
PFHxS	ng/L	17.6	15.5	88	65-145	
PFMBA	ng/L	40	35.2	88	60-150	
PFMPA	ng/L	40	33.1	83	55-140	
PFNA	ng/L	19.2	18.3	95	70-150	
PFNS	ng/L	19.2	17.5	91	65-145	
PFOA	ng/L	19.2	16.9	88	70-150	
PFOS	ng/L	19.2	15.6	81	55-150	
PFOSA	ng/L	19.2	16.9	88	70-145	
PFPeA	ng/L	40	35.3	88	65-135	
PFPeS	ng/L	19.2	16.6	87	65-140	
PFTeDA	ng/L	19.2	15.6	81	60-140	
PFTrDA	ng/L	19.2	20.2	105	65-140	
PFUnA	ng/L	19.2	18.3	95	70-145	
13C2-PFDaA (S)	%			46	10-130	
13C2-PFTA (S)	%			64	10-130	
13C24:2FTS (S)	%			65	40-200	
13C26:2FTS (S)	%			60	40-200	
13C28:2FTS (S)	%			57	40-300	
13C3-PFBS (S)	%			47	40-135	
13C3-PFHxS (S)	%			45	40-130	
13C3-PFPrA (S)	%			46	5-130	
13C3HFPO-DA (S)	%			46	40-130	
13C4-PFBA (S)	%			44	5-130	
13C4-PFHpA (S)	%			42	40-130	
13C5-PFHxA (S)	%			44	40-130	
13C5-PFPeA (S)	%			44	40-130	
13C6-PFDA (S)	%			43	40-130	
13C7-PFUdA (S)	%			46	30-130	
13C8-PFOA (S)	%			44	40-130	
13C8-PFOS (S)	%			44	40-130	
13C8-PFOSA (S)	%			46	40-130	
13C9-PFNA (S)	%			44	40-130	
d3-MeFOSAA (S)	%			54	40-170	
d3-NMeFOSA (S)	%			35	10-130	
d5-EtFOSAA (S)	%			55	25-135	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

LABORATORY CONTROL SAMPLE: 5280449

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
d5-NEtFOSA (S)	%.			28	10-130	
d7-NMeFOSE (S)	%.			56	10-130	
d9-NEtFOSE (S)	%.			44	10-130	

LABORATORY CONTROL SAMPLE: 5280450

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ng/L	12	10.0	83	55-160	
3:3 FTCA	ng/L	15.9	10.2	65	65-130	
4:2 FTS	ng/L	12	10.2	85	70-145	
5:3 FTCA	ng/L	79.4	70.0	88	70-135	
6:2 FTS	ng/L	12.3	10.4	84	65-155	
7:3 FTCA	ng/L	79.4	75.9	96	50-145	
8:2 FTS	ng/L	12.3	11.9	97	60-150	
9CI-PF3ONS	ng/L	12	11.1	92	70-155	
ADONA	ng/L	12	11.5	96	65-145	
HFPO-DA	ng/L	12.8	10	78	70-140	
NEtFOSA	ng/L	3.1	2.9	96	65-145	
NEtFOSAA	ng/L	3.1	2.7	89	70-145	
NEtFOSE	ng/L	30.7	27.5	90	70-135	
NFDHA	ng/L	6.4	5.4	84	50-150	
NMeFOSA	ng/L	3.1	2.8	90	60-150	
NMeFOSAA	ng/L	3.1	2.6	84	50-140	
NMeFOSE	ng/L	30.7	25.2	82	70-145	
PFBA	ng/L	12.8	10.8	84	70-140	
PFBS	ng/L	2.8	2.5	88	60-145	
PFDA	ng/L	3.1	2.9	94	70-140	
PFDoA	ng/L	3.1	2.9	95	70-140	
PFDoS	ng/L	3.1	2.4	78	50-145	
PFDS	ng/L	3.1	2.2	70	60-145	
PFEESA	ng/L	5.6	5.0	88	70-140	
PFHpA	ng/L	3.1	2.6	86	70-150	
PFHpS	ng/L	3.1	2.4	79	70-150	
PFHxA	ng/L	3.1	2.6	85	70-145	
PFHxS	ng/L	2.8	2.3	82	65-145	
PFMBA	ng/L	6.4	5.4	85	60-150	
PFMPA	ng/L	6.4	5.0	79	55-140	
PFNA	ng/L	3.1	3.0	97	70-150	
PFNS	ng/L	3.1	2.7	87	65-145	
PFOA	ng/L	3.1	2.8	91	70-150	
PFOS	ng/L	3.1	2.5	82	55-150	
PFOSA	ng/L	3.1	2.9	94	70-145	
PFPeA	ng/L	6.4	5.4	84	65-135	
PFPeS	ng/L	3.1	2.6	85	65-140	
PFTeDA	ng/L	3.1	2.4	79	60-140	

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QUALITY CONTROL DATA

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

LABORATORY CONTROL SAMPLE: 5280450

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PFTrDA	ng/L	3.1	2.9	94	65-140	
PFUnA	ng/L	3.1	2.8	91	70-145	
13C2-PFDoA (S)	%.			62	10-130	
13C2-PFTA (S)	%.			72	10-130	
13C24:2FTS (S)	%.			103	40-200	
13C26:2FTS (S)	%.			96	40-200	
13C28:2FTS (S)	%.			93	40-300	
13C3-PFBS (S)	%.			71	40-135	
13C3-PFHxS (S)	%.			67	40-130	
13C3-PFPrA (S)	%.			81	5-130	
13C3HFPO-DA (S)	%.			74	40-130	
13C4-PFBA (S)	%.			72	5-130	
13C4-PFHpA (S)	%.			66	40-130	
13C5-PFHxA (S)	%.			71	40-130	
13C5-PFPeA (S)	%.			73	40-130	
13C6-PFDA (S)	%.			66	40-130	
13C7-PFUdA (S)	%.			71	30-130	
13C8-PFOA (S)	%.			70	40-130	
13C8-PFOS (S)	%.			75	40-130	
13C8-PFOSA (S)	%.			72	40-130	
13C9-PFNA (S)	%.			64	40-130	
d3-MeFOSAA (S)	%.			87	40-170	
d3-NMeFOSA (S)	%.			57	10-130	
d5-EtFOSAA (S)	%.			87	25-135	
d5-NEtFOSA (S)	%.			49	10-130	
d7-NMeFOSE (S)	%.			86	10-130	
d9-NEtFOSE (S)	%.			79	10-130	

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QUALIFIERS

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60751065 St. Cloud PFAS Forens

Pace Project No.: 10736559

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10736559001	MW5-24.5-052725	ASTM D2974	1012250		
10736559002	MW7-24.5-052825	ASTM D2974	1012250		
10736559003	MW8-25-052825	ASTM D2974	1012250		
10736559004	MW6-25-052925	ASTM D2974	1012250		
10736559001	MW5-24.5-052725	EPA 1633	1013093	EPA 1633	1013856
10736559002	MW7-24.5-052825	EPA 1633	1013093	EPA 1633	1013856
10736559003	MW8-25-052825	EPA 1633	1013093	EPA 1633	1013856
10736559004	MW6-25-052925	EPA 1633	1013093	EPA 1633	1013856
10736559005	FIELD BLANK	EPA 1633	1012941	EPA 1633	1013690

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Work

WO#: 10736559



10736559

Company: AECOM

Address: 100 LeSalle Ave., Ste. 400, Minneapolis, MN 55402

Report To: Andrew Tarara @ aecom.com

Copy To: Nathan Pikel @ aecom.com

Site Collection Info/Address:

Customer Project Name/Number:

St. Cloud PFAS Forensic/60151015 MN / Sherburne [] PT [] MT [X] CT [] ET

Phone:

Email:

Collected By (print): Geoff Goodwin

Collected By (Signature):

Turnaround Date Required:

Sample Disposal:

[] Dispose as appropriate [] Return

[] Archive:

[] Hold:

Rush:

[] Same Day [] Next Day

[] 2 Day [] 3 Day [] 4 Day [] 5 Day

(Expedite Charges Apply)

Analysis:

Field Filtered (if applicable):

[] Yes [] No

Immediately Packed on Ice:

[] Yes [] No

DW PWS ID #:

DW Location Code:

Compliance Monitoring:

[] Yes [] No

Time Zone Collected:

[] PT [] MT [X] CT [] ET

State:

County/City:

Time Zone Collected:

[] PT [] MT [X] CT [] ET

State:

County/City:

Time Zone Collected:

[] PT [] MT [X] CT [] ET

State:

County/City:

Time Zone Collected:

[] PT [] MT [X] CT [] ET

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State:

County/City:

Time Zone Collected:

[] PT [] MT [X] CT [] ET

State:

County/City:

Time Zone Collected:

[] PT [] MT [X] CT [] ET

State:

County/City:

Time Zone Collected:

[] PT [] MT [X] CT [] ET

State:

Billing Information:

Address: 100 LeSalle Ave., Ste. 400, Minneapolis, MN 55402

Report To: Andrew Tarara @ aecom.com

Copy To: Nathan Pikel @ aecom.com

Site Collection Info/Address:

Customer Project Name/Number:

St. Cloud PFAS Forensic/60151015 MN / Sherburne [] PT [] MT [X] CT [] ET

Phone:

Email:

Collected By (print): Geoff Goodwin

Collected By (Signature):

Turnaround Date Required:

Sample Disposal:

[] Dispose as appropriate [] Return

[] Archive:

[] Hold:

Rush:

[] Same Day [] Next Day

[] 2 Day [] 3 Day [] 4 Day [] 5 Day

(Expedite Charges Apply)

Analysis:

Field Filtered (if applicable):

[] Yes [] No

Immediately Packed on Ice:

[] Yes [] No

DW PWS ID #:

DW Location Code:

Compliance Monitoring:

[] Yes [] No

Time Zone Collected:

[] PT [] MT [X] CT [] ET

State:

County/City:

Time Zone Collected:

[] PT [] MT [X] CT [] ET

State:

County/City:

Time Zone Collected:

[] PT [] MT [X] CT [] ET

State:

County/City:

Time Zone Collected:

[] PT [] MT [X] CT [] ET

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State:

County/City:

Time Zone Collected:

[] PT [] MT [X] CT [] ET

State:

County/City:

Time Zone Collected:

[] PT [] MT [X] CT [] ET

State:

County/City:

Time Zone Collected:

[] PT [] MT [X] CT [] ET

State:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used:

Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm):

Y N NA

Date/Time:

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

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Received by/Company: (Signature)

Received by/Company: (Signature)

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used:

Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm):

Y N NA

Date/Time:

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

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Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used:

Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm):

Y N NA

Date/Time:

Received by/Company: (Signature)

Received by/Company: (Signature)

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Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used:

Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm):

Y N NA

Date/Time:

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Received by/Company: (Signature)

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used:

Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm):

Y N NA

Date/Time:

Received by/Company: (Signature)

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Received by/Company: (Signature)

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used:

Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm):

Y N NA

Date/Time:

Received by/Company: (Signature)

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Received by/Company: (Signature)

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used:

Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm):

Y N NA

Date/Time:

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

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Received by/Company: (Signature)

Received by/Company: (Signature)

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used:

Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm):

Y N NA

Date/Time:

Received by/Company: (Signature)

Received by/Company: (Signature)

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Received by/Company: (Signature)

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used:

Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm):

Y N NA

Date/Time:

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

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Received by/Company: (Signature)

Received by/Company: (Signature)

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used:

Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm):

Y N NA

Date/Time:

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

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Received by/Company: (Signature)

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Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used:

Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm):

Y N NA

Date/Time:

Received by/Company: (Signature)

Received by/Company: (Signature)

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CHAIN-OF-CUSTODY Analytical Request Document									
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields									
Pace® Location Requested (City/State): Company Name: AECOM Street Address: 800 LaSalle Ave., Suite 1100 Minneapolis, MN 55402 Customer Project #: 6057865 Project Name: St. Cloud PFAS Forensics Site Collection Info/Facility ID (as applicable):		Contact/Report to: Andrew Tarara Phone #: (651) 361-0474 E-Mail: Andrew.Tarara@aecom.com Cc E-Mail: Nathan.Pulka@aecom.com Invoice to: Invoice E-mail: Purchase Order # (if applicable): Quote #:							
Time Zone Collected: [] AK [] PT [] MT [] CT [] ET Data Deliverables: [] Level II [] Level III [] Level IV [] EQUIS [] Other:		County / State origin of sample(s): Sherburne, MN Reportable [] Yes [] No DW PWSID # for WW Permit # as applicable: Rush (Pre-approval required): [] Same Day [] 1 Day [] 2 Day [] 3 Day Other:							
Date Requested: Date Results:		Field Filtered (if applicable): [] Yes [] No Analysis: Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Wastewater (WW), Ground Water (GW), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)							
Customer Sample ID	Matrix *	Comp / Grab	Composite Start		Collected or Composite End		Residual Chlorine		Preservation non-conformance identified for sample.
			Date	Time	Date	Time	Result	Units	
MW5-24.5-052725	SS	G			5/27/25	1220			
MW7-24.5-052825	SS	G			5/28/25	1010			
MW8-25-052825	SS	G			5/28/25	1445			
MW6-25-052925	SS	G			5/29/25	0905			
FIELD BLANK	ACFB	G			5/29/25	0935			
Additional Instructions from Pace®: Collected By: Groff Goodwin Printed Name: _____ Signature: _____ Date/Time: 5-29-25 / 1325 Relinquished by (Company; Signature): IAECOM Relinquished by (Company; Signature): _____ Relinquished by (Company; Signature): _____ Relinquished by (Company; Signature): _____									

ENV-FRM-MIN4-0150 v19 Sample Condition Upon Receipt

Person Examining & Date: NEUM 5/30/25

PROJECT #:

WO#: **10736559**

Client Name: AECOM

PM: TS1

Due Date: 06/19/25

CLIENT: AECOM

Custody Seal Present: ☐ YES ☒ NO

Seals Intact: ☐ YES ☒ NO

Tracking Number:

☐ See Exceptions form ENV-FRM-MIN4-0142.

Courier: ☒ Client

☐ Commercial

☐ FedEx

☐ Pace Courier/Field

☐ Speedee

☐ UPS

☐ USPS

Packing Material:

☐ Bubble Bags

☐ Bubble Wrap

☒ None

☐ Other:

Biological Tissue Frozen:

☐ YES

☒ NO

Thermometer:

☐ T1 (0461)

☐ T2 (0431)

☐ T3 (0459)

☐ T4 (0402)

Type of Ice: ☐ Blue

☐ Dry

☒ Wet

☐ Melted

☐ None

☐ T5 (0187)

☐ T6 (0396)

☐ T7 (0377)

☐ T8 (0775)

☒ T9 (0428)

☐ 01339252 (0710)

Temp Blank:

☒ YES

☐ NO

NOTE: Temp should be $\leq 6^{\circ}\text{C}$, but above freezing.

Read Temp w/Temp Blank: 0.6, 0.2 $^{\circ}\text{C}$

Correction Factor: +0.2

Corrected Temp w/Temp Blank: 0.8, 0.4 $^{\circ}\text{C}$

Did Samples Originate in West Virginia: ☐ YES

☒ NO (list temps on exception)

Were All Container Temps Taken: ☐ YES

☐ NO

☒ N/A

Average Corrected Temp (No Temp Blank Only):

☐ See Exceptions form ENV-FRM-MIN4-0142.

☐ 1 Container

USDA Regulated Soil: ☐ N/A - Water Sample/Other (describe):

Did Samples originate from one of the following states (check maps): ☐ YES ☒ NO

Are samples from a foreign source (international, including Hawaii

Circle State: AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, VA

and Puerto Rico): ☐ YES ☒ NO

NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

LOCATION (check one):	☐ DULUTH	☒ MINNEAPOLIS	☐ VIRGINIA	YES	NO	N/A	COMMENT(S)
Chain of Custody Present and Filled Out? (i.e., Analysis/ID/Date/Time)	☒	☒	☐	☒	☐		1.
Chain of Custody Relinquished?	☒	☒	☐	☒	☐		2.
Sampler Name and/or Signature on COC?	☒	☒	☐	☒	☐		3.
Samples Arrived within Hold Time?	☒	☒	☐	☒	☐		4.
If Fecal: ☐ <8 hrs ☐ >8 hr but <24 hr ☐ >24 hr							
Short Hold Time Analysis (<72 hr)?	☐	☒	☐	☐	☒		5. ☐ BOD / cBOD ☐ Fecal coliform ☐ Hex Chrom ☐ HPC ☐ Nitrate ☐ Nitrite ☐ Ortho Phos ☐ Total coliform/E. coli ☐ Turbidity ☐ Other:
Rush Turn Around Time Requested?	☐	☒	☐	☐	☒		6. ☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 5 Day Due Date:
Sufficient Sample Volume? (If NO, list approximate volume in section 7.)	☒	☒	☐	☒	☐		7.
Correct Containers Used?	☒	☒	☐	☒	☐		8. 3xGN per sample for 1-4
- Pace Containers Used?	☒	☒	☐	☒	☐		9. 1xMTN 1xDW
Containers Intact?	☒	☒	☐	☒	☐		9. 1xMTN
Field Filtered Volume Received for Dissolved Tests?	☐	☐	☐	☐	☒		10.
ID/Date/Time Match? (If NO, fill out section 11.)	☒	☒	☐	☒	☐		11.
Matrix: ☐ Oil ☒ Soil ☐ Water ☐ Other							☐ See Exceptions form ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☐	☐	☐	☐	☒		12.
Sample #:							
☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ Zinc Acetate							
pH Paper Lot #:							
☐ Residual Chlorine ☐ 0-6 Roll ☐ 0-6 Strip ☐ 0-14 Strip							
Positive for Residual Chlorine (NaOH containers only): ☐ YES ☐ NO							
Preserved containers in compliance with EPA recommendations? (HNO3, H2SO4, < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide)	☐	☐	☒	☐	☒		☐ See Exceptions form ENV-FRM-MIN4-0142
EXCEPTIONS (water only): VOA, Coliform, TOC/DOC, Oil & Grease, Phenols, DRO/8015, Dioxins, and PFAS	☐	☐	☒	☐	☒		
Extra labels present on soil VOA or WIDRO containers? (soil only)	☐	☐	☒	☐	☒		13.
Headspace in Methyl Mercury Container?	☐	☐	☒	☐	☒		14.
Headspace in VOA Vials (greater than 6mm)?	☐	☐	☒	☐	☒		☐ See Exceptions form ENV-FRM-MIN4-0140
Trip Blanks Present?	☐	☐	☒	☐	☒		15.
Trip Blank Custody Seals Present?	☐	☐	☒	☐	☒		Pace Trip Blank Lot # (if purchased):

CLIENT NOTIFICATION / RESOLUTION:

Labeled By: NEUM Line: 2

Person Contacted & Date/Time:

PM Review & Date:

5/30/25

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office.

Appendix D

Photo Log

Photographic Log
St. Cloud PFAS Forensics
May 27, 2025

Direction:
North
Explanation:
MW-5 Location



Direction:
West
Explanation:
MW-6 Location



Direction:
North
Explanation:
MW-7 Location



Direction:
North
Explanation:
MW-8 Location



Appendix E

Waste Management and Disposal Forms

Site Address: 4958 County Road 8 SE
Saint Cloud, MN 56304

SC PPW 5/19/2025

WORK ORDER ~~NO~~ 2503479031

DOCUMENT NO. 2182841

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services, Inc.

VEHICLE ID # _____

EPA ID # MAD039322250

TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2 _____

VEHICLE ID # _____

EPA ID # _____

TRANS. 2 PHONE _____

DESIGNATED FACILITY Clean Harbors Environmental Services, Inc.			SHIPPER Minnesota Pollution Control Agency			
FACILITY EPA ID # <u>NE0981723513</u>			SHIPPER EPA ID # <u>NONE REQUIRED</u>			
ADDRESS <u>2247 South Highway 71</u>			ADDRESS <u>C/O AECOM 800 LaSalle Ave Ste 1100</u>			
CITY <u>Kimball</u>		STATE <u>NE</u>	ZIP <u>69145</u>	CITY <u>Minneapolis</u>	STATE <u>MN</u>	ZIP <u>55402</u>
CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL	
<u>11x55</u>	<u>DM</u>		A. <u>NON DOT REGULATED, (SOIL)</u>	<u>5500</u>	<u>P</u>	
			B. <u>NON DOT REGULATED, (WATER)</u>			
			C.			
			D.			
			E.			
			F.			
			G.			
			H.			
SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Minnesota Pollution Control Agency A.CH2968932 B.CH2967817						

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER	PRINT Andrew J. Tarara-As limited authorized agent for MPCA	SIGN <u>Andrew J. Tarara</u>	DATE 6/26/25
TRANSPORTER 1	PRINT <u>Michael F. ...</u>	SIGN <u>[Signature]</u>	DATE 6-29-25
TRANSPORTER 2	PRINT	SIGN	DATE
RECEIVED BY	PRINT	SIGN	DATE

Generator acknowledges that no material change has occurred either in the characteristics or in the process generating the material.

mcpa
St. Cloud
AECOM
6/27

Appendix F

Well and Boring Construction Records

Well Management Section
625 North Robert Street
P.O. Box 64502
St. Paul, Minnesota 55164-0502
651-201-4600 or 800-383-9808
health.wells@state.mn.us
www.health.state.mn.us/wells



MDH Use Only	
Date Received	_____
Amount Received	_____
Deposit Number	_____
Site Number	_____
Receipt Codes:	Well Site (369) Well Site-Federal (361) Well Site-Government (374)

Environmental Well Construction Notification

- Please print or type the requested information.
- Incomplete notifications cannot be processed and will be returned to the applicant.
- Submit the completed notification, the nonrefundable \$275 notification fee (if required), and required signatures.
 - Make check or money order payable to the Minnesota Department of Health or pay by credit card using the attached Credit Card Payment Information form.
- Mail completed notification and fee to address listed above or fax to 877-434-9853.

Site Permit Exists: ☐ Yes ☐ No If yes, enter existing Site Permit Number. _____

Check all Boxes That Apply

A single \$275 fee is required for all wells located on the same property and listed on this application form(s).

- | | |
|--|---|
| ☐ Well(s) Owned by Federal Government | ☐ Well(s) Owned by State or Local Government |
| ☐ Reconstruction Requiring a Notification | ☐ All Other Environmental Wells |

For Wells(s) Owned by the Minnesota Pollution Control Agency (MPCA) (Check one of the following boxes.)

- | | |
|---|---|
| ☐ MPCA Closed Landfill Program | ☒ MPCA Monitoring Program |
| ☐ MPCA Petroleum Program | ☐ MPCA Superfund Program |

For Wells(s) Owned by the Minnesota Department of Agriculture (Check one of the following boxes.)

- | | |
|--|--|
| ☐ MONU-State Program-Monitor | ☐ FMU1-State Program-Nutrient |
| ☐ IRUN-MERLA-PA/SI State Lead | ☐ IRUN-MERLA-Kettle River CO |

Well Location Address

5124 County Road 8 SE (ROW) St. Cloud MN 56304 Sherburne
Street Address City State ZIP Code County
Property Identification Number _____ Number of Environmental Wells 1

Environmental Well Site Location

All wells listed must be located on the same property. When the property has more than four wells, list the additional wells on the *Environmental Well Construction Notification: Additional Wells* form.

Note: Separate notification(s) and fee(s) must be submitted for wells on different properties.

Total Number of Wells _____

Unique Well Number	Depth	Township Number	Range Number	Section Number	Quarter Sections (List Three Quarters Smallest to Largest)
888244	35	35N	30W	30	SE, NW, NE

ENVIRONMENTAL WELL CONSTRUCTION NOTIFICATION

Well Owner Billing Address for Maintenance Permits

MPCA

Well Owner Name			Sondra Campbell	
520 Lafayette Road	St. Paul	MN	55155	651-757-2840
Street Address	City	State	ZIP Code	Telephone No.

Consultant

AECOM	Andrew Tarara	651-361-0474	Andrew.Tarara.aecom.com
Consultant Name/Contact Person		Telephone No.	Email

Property Owner

If the well owner is not the property owner, reference Minnesota Statutes, section 103I.205, subdivision 8 for information requiring a signed agreement between the well owner and property owner. This form must be signed by the licensed contractor's certified representative and the property owner or property owner's agent. If the property owner and well owner are not the same, **the well owner or well owner's agent must also sign accepting responsibility for obtaining maintenance permits and for sealing the environmental well(s).**

Sherburne County	Mike Juricich			
Property Owner Name		Contact Person	Contact Person Email Address	
13880 Business Center Drive NW STE#100	Elk River	MN	55330	763-765-3354
Street Address	City	State	ZIP Code	Telephone No.

Signatures

As owner of the well(s) listed, I agree I will be responsible for obtaining maintenance permits and for sealing the well(s) in accordance with Minnesota Statutes, section 103I.205 and Minnesota Rules, chapter 1775
 Andrew Tarara-AECOM as limited authorized agent for MPCA

Well Owner/Agent Name (print)	Well Owner/Agent Signature	Date
ROW Permits attached	<i>Andrew Tarara</i>	5/13/25

Property Owner/Agent Name (print)	Property Owner/Agent Signature	Date

Well Contractor Company and Certified Representative

I certify that all the information provided in this notification is true and complete. I understand that submitting false information allows MDH to deny, suspend, revoke, or take other action against our license.

Thein Well Company, Inc

Well Contractor Company Name (print)	1337	License No.
Mike Thein		2333
	mike@theinwell.com	

Certified Representative Name (print)	Certified Representative Email	Certified Representative No.
<i>Michael Thein</i>		5/15/2025
Certified Representative Signature		Date

Well Management Section
625 North Robert Street
P.O. Box 64502
St. Paul, Minnesota 55164-0502
651-201-4600 or 800-383-9808
health.wells@state.mn.us
www.health.state.mn.us/wells



MDH Use Only	
Date Received	_____
Amount Received	_____
Deposit Number	_____
Site Number	_____
Receipt Codes:	Well Site (369) Well Site-Federal (361) Well Site-Government (374)

Environmental Well Construction Notification

- Please print or type the requested information.
- Incomplete notifications cannot be processed and will be returned to the applicant.
- Submit the completed notification, the nonrefundable \$275 notification fee (if required), and required signatures.
 - Make check or money order payable to the Minnesota Department of Health or pay by credit card using the attached Credit Card Payment Information form.
 - Mail completed notification and fee to address listed above or fax to 877-434-9853.

Site Permit Exists: ☐ Yes ☐ No If yes, enter existing Site Permit Number. _____

Check all Boxes That Apply

A single \$275 fee is required for all wells located on the same property and listed on this application form(s).

☐ Well(s) Owned by Federal Government	☐ Well(s) Owned by State or Local Government
☐ Reconstruction Requiring a Notification	☐ All Other Environmental Wells

For Wells(s) Owned by the Minnesota Pollution Control Agency (MPCA) (Check one of the following boxes.)

☐ MPCA Closed Landfill Program	☒ MPCA Monitoring Program
☐ MPCA Petroleum Program	☐ MPCA Superfund Program

For Wells(s) Owned by the Minnesota Department of Agriculture (Check one of the following boxes.)

☐ MONU-State Program-Monitor	☐ FMU1-State Program-Nutrient
☐ IRUN-MERLA-PA/SI State Lead	☐ IRUN-MERLA-Kettle River CO

Well Location Address

ROW 52nd St SE St. Cloud MN 56304 Sherburne
Street Address City State ZIP Code County
Property Identification Number _____ Number of Environmental Wells 2

Environmental Well Site Location

All wells listed must be located on the same property. When the property has more than four wells, list the additional wells on the *Environmental Well Construction Notification: Additional Wells* form.

Note: Separate notification(s) and fee(s) must be submitted for wells on different properties.

Total Number of Wells 2

Unique Well Number	Depth	Township Number	Range Number	Section Number	Quarter Sections (List Three Quarters Smallest to Largest)
888246	35	35N	30W	30	SW, SW, NE
888247	35	35 N	30 W	30	SW, SE, NE

ENVIRONMENTAL WELL CONSTRUCTION NOTIFICATION

Well Owner Billing Address for Maintenance Permits

MPCA

Well Owner Name: Sondra Campbell

520 Lafayette Road St. Paul MN 55155 Contact Person Email Address: 651-757-2840

Street Address City State ZIP Code Telephone No.

Consultant

AECOM Andrew Tarara 651-361-0474 Andrew.Tarara.aecom.com

Consultant Name/Contact Person Telephone No. Email

Property Owner

If the well owner is not the property owner, reference Minnesota Statutes, section 103I.205, subdivision 8 for information requiring a signed agreement between the well owner and property owner. This form must be signed by the licensed contractor's certified representative and the property owner or property owner's agent. If the property owner and well owner are not the same, **the well owner or well owner's agent must also sign accepting responsibility for obtaining maintenance permits and for sealing the environmental well(s).**

ROW Haven Township Eric Meyer 320-743-3717

Property Owner Name Contact Person Contact Person Email Address

PO Box 339 St. Cloud MN 56302-339 320-743-3717

Street Address City State ZIP Code Telephone No.

Signatures

As owner of the well(s) listed, I agree I will be responsible for obtaining maintenance permits and for sealing the well(s) in accordance with Minnesota Statutes, section 103I.205 and Minnesota Rules, chapter 1775

Andrew Tarara-AECOM as limited authorized agent for MPCA

Well Owner/Agent Name (print) Andrew Tarara 5/13/25

ROW Permits attached Well Owner/Agent Signature Date

Property Owner/Agent Name (print) Property Owner/Agent Signature Date

Well Contractor Company and Certified Representative

I certify that all the information provided in this notification is true and complete. I understand that submitting false information allows MDH to deny, suspend, revoke, or take other action against our license.

Thein Well Company, Inc

Well Contractor Company Name (print) 1337

Mike Thein License No. 2333

mike@theinwell.com

Certified Representative Name (print) Certified Representative Email Certified Representative No.

Michael Thein 5/15/2025

Certified Representative Signature Date

Well Management Section
625 North Robert Street
P.O. Box 64502
St. Paul, Minnesota 55164-0502
651-201-4600 or 800-383-9808
health.wells@state.mn.us
www.health.state.mn.us/wells



MDH Use Only	
Date Received	_____
Amount Received	_____
Deposit Number	_____
Site Number	_____
Receipt Codes:	Well Site (369) Well Site-Federal (361) Well Site-Government (374)

Environmental Well Construction Notification

- Please print or type the requested information.
- Incomplete notifications cannot be processed and will be returned to the applicant.
- Submit the completed notification, the nonrefundable \$275 notification fee (if required), and required signatures.
 - Make check or money order payable to the Minnesota Department of Health or pay by credit card using the attached Credit Card Payment Information form.
- Mail completed notification and fee to address listed above or fax to 877-434-9853.

Site Permit Exists: ☐ Yes ☐ No If yes, enter existing Site Permit Number. _____

Check all Boxes That Apply

A single \$275 fee is required for all wells located on the same property and listed on this application form(s).

- | | |
|--|---|
| ☐ Well(s) Owned by Federal Government | ☐ Well(s) Owned by State or Local Government |
| ☐ Reconstruction Requiring a Notification | ☐ All Other Environmental Wells |

For Wells(s) Owned by the Minnesota Pollution Control Agency (MPCA) (Check one of the following boxes.)

- | | |
|---|---|
| ☐ MPCA Closed Landfill Program | ☒ MPCA Monitoring Program |
| ☐ MPCA Petroleum Program | ☐ MPCA Superfund Program |

For Wells(s) Owned by the Minnesota Department of Agriculture (Check one of the following boxes.)

- | | |
|--|--|
| ☐ MONU-State Program-Monitor | ☐ FMU1-State Program-Nutrient |
| ☐ IRUN-MERLA-PA/SI State Lead | ☐ IRUN-MERLA-Kettle River CO |

Well Location Address

ROW 49th St SE St. Cloud MN 56304 Sherburne
Street Address City State ZIP Code County
Property Identification Number _____ Number of Environmental Wells 1

Environmental Well Site Location

All wells listed must be located on the same property. When the property has more than four wells, list the additional wells on the *Environmental Well Construction Notification: Additional Wells* form.

Note: Separate notification(s) and fee(s) must be submitted for wells on different properties.

Total Number of Wells 1

Unique Well Number	Depth	Township Number	Range Number	Section Number	Quarter Sections (List Three Quarters Smallest to Largest)
888245	35	35N	30W	30	NW, NW, NE

ENVIRONMENTAL WELL CONSTRUCTION NOTIFICATION

Well Owner Billing Address for Maintenance Permits

MPCA

Well Owner Name

Sondra Campbell

520 Lafayette Road

St. Paul

MN

Contact Person Email Address

55155

651-757-2840

Street Address

City

State

ZIP Code

Telephone No.

Consultant

AECOM

Andrew Tarara

651-361-0474

Andrew.Tarara.aecom.com

Consultant Name/Contact Person

Telephone No.

Email

Property Owner

If the well owner is not the property owner, reference Minnesota Statutes, section 103I.205, subdivision 8 for information requiring a signed agreement between the well owner and property owner. This form must be signed by the licensed contractor's certified representative and the property owner or property owner's agent. If the property owner and well owner are not the same, **the well owner or well owner's agent must also sign accepting responsibility for obtaining maintenance permits and for sealing the environmental well(s).**

ROW Haven Township

Eric Meyer

320-743-3717

Property Owner Name

Contact Person

Contact Person Email Address

PO Box 339

St. Cloud

MN

56302-339

320-743-3717

Street Address

City

State

ZIP Code

Telephone No.

Signatures

As owner of the well(s) listed, I agree I will be responsible for obtaining maintenance permits and for sealing the well(s) in accordance with Minnesota Statutes, section 103I.205 and Minnesota Rules, chapter 1775
Andrew Tarara-AECOM as limited authorized agent for MPCA

Well Owner/Agent Name (print)

Well Owner/Agent Signature

5/13/25

ROW Permits attached

Date

Property Owner/Agent Name (print)

Property Owner/Agent Signature

Date

Well Contractor Company and Certified Representative

I certify that all the information provided in this notification is true and complete. I understand that submitting false information allows MDH to deny, suspend, revoke, or take other action against our license.

Thein Well Company, Inc

Well Contractor Company Name (print)

1337

Mike Thein

mike@theinwell.com

License No.
2333

Certified Representative Name (print)

Certified Representative Email

Certified Representative No.

5/15/2025

Certified Representative Signature

Date

Information provided on this form is classified as public information under Minnesota Statutes, chapter 13.
To obtain this information in a different format call 651-201-4600.
Publications\Form EW Construction Notification 04/02/2021R

WELL OR BORING LOCATION
County Name Sherburne

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING CONSTRUCTION RECORD
Minnesota Statutes, chapter 103I

MINNESOTA UNIQUE WELL
AND BORING NO.

888244

Township Name Havin Township No. 35N Range No. 30W Section No. 30 Fraction (sm. → lg.) SE NW NE
1/4 1/4 1/4 1/4

WELL/BORING DEPTH (completed) 35 ft. DATE WORK COMPLETED 5/29/25

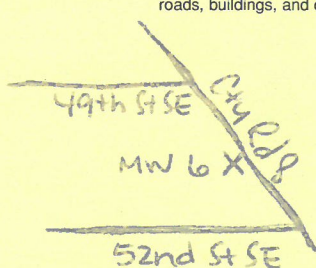
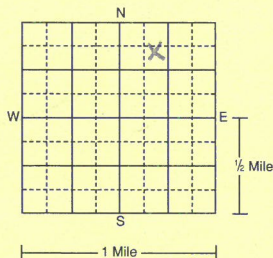
GPS LOCATION — decimal degrees (to four decimal places)
Latitude 45.4961529 Longitude -94.11432095

DRILLING METHOD
☐ Cable Tool ☐ Driven ☐ Dual Rotary
☒ Auger ☐ Rotary ☐ Rotasonic
☐ Other

House Number, Street Name, City, and ZIP Code of Well Location
5124 County Rd 8 SE (ROW) St. Cloud 56304

DRILLING FLUID None WELL HYDROFRACTURED? ☐ Yes ☒ No
From _____ ft. To _____ ft.

Show exact location of well/boring in section grid with "X." Sketch map of well/boring location.
Showing property lines, roads, buildings, and direction.



USE ☐ Domestic ☒ Monitoring ☐ Heating/Cooling
☐ Noncommunity PWS ☐ Irrigation ☐ Industry/Commercial
☐ Community PWS ☐ Dewatering ☐ Remedial
☐ Elevator ☐

CASING MATERIAL Drive Shoe? ☐ Yes ☒ No
☐ Steel ☐ Threaded ☐ Welded
☒ Plastic

CASING Diameter 2 in. To 25 ft. Weight _____ lbs./ft. Specifications _____
HOLE DIAM. 8 1/4 in. To 25 ft.
_____ in. To _____ ft.
_____ in. To _____ ft.

PROPERTY OWNER'S NAME/COMPANY NAME
Sherburne County

SCREEN Make Johnson OPEN HOLE From _____ ft. To _____ ft.
Type PVC Slot Diam. 2"
Slot/Gauze .010 Length 10'
Set between 25 ft. and 35 ft. FITTINGS

Property owner's mailing address if different than well location address indicated above.
13880 Business Center Dr Ste #100
Elk River MN 55330

STATIC WATER LEVEL 25 ft. ☒ Below ☐ Above land surface
Date measured 5-29-25 Dry hole ☐ Yes ☒ No

WELL OWNER'S NAME/COMPANY NAME
MPCA

PUMPING LEVEL (below land surface)
NA ft. after _____ hrs. pumping _____ g.p.m.

Well/boring owner's mailing address if different than property owner's address indicated above.
520 Lafayette Rd
St. Paul MN 55155

WELLHEAD COMPLETION
☐ Pitless/adaptor manufacturer _____ Model _____
☒ Casing protection 6" Prototop ☒ 12 in. above grade
☐ At-grade ☐ Well House ☐ Hand Pump

GROUT INFORMATION (specify bentonite, cement-sand, neat-cement, concrete, cuttings, or other)
Material Neat Cement From 0 To 4 ft. 2 Yds. ☒ Bags
Material Bentonite From 4 To 22 ft. 2 Yds. ☒ Bags
Material _____ From _____ To _____ ft. _____ Yds. ☐ Bags

GEOLOGICAL MATERIALS	COLOR	HARDNESS OF MATERIAL	FROM	TO
<u>Sandy Top Soil</u>	<u>dk brown</u>	<u>med</u>	<u>0</u>	<u>5</u>
<u>Sand</u>	<u>brown</u>	<u>med</u>	<u>5</u>	<u>10</u>
<u>Sand gravel</u>	<u>brown</u>	<u>med</u>	<u>10</u>	<u>15</u>
<u>Rock sand gravel</u>	<u>brown</u>	<u>med</u>	<u>15</u>	<u>20</u>
<u>Sand gravel</u>	<u>brown</u>	<u>med</u>	<u>20</u>	<u>25</u>
<u>Wet sand gravel</u>	<u>brown</u>	<u>med</u>	<u>25</u>	<u>30</u>
<u>Wet sand gravel</u>	<u>brown</u>	<u>med</u>	<u>30</u>	<u>35</u>

Driven casing seal From _____ To _____ Bags _____
One bag = 94 lbs. cement or 50 lbs. bentonite

NEAREST KNOWN SOURCE OF CONTAMINATION Unknown
Well is _____ feet _____ direction from _____ type

Well disinfected upon completion? ☐ Yes ☐ No
PUMP NA

☐ Not installed Date installed _____
Manufacturer's name _____

Model Number _____ HP _____ Volts _____
Length of drop pipe _____ ft. Capacity _____ g.p.m.

Type: ☐ Submersible ☐ L.S. Turbine ☐ Reciprocating ☐ Jet ☐

ABANDONED WELLS NA

Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No
VARIANCE NA

Was a variance granted from the MDH for this well? ☐ Yes ☐ No TN# _____

WELL CONTRACTOR CERTIFICATION
This well was drilled under my supervision and in accordance with Minnesota Rules, chapter 4725.
The information contained in this report is true to the best of my knowledge.

REMARKS, ELEVATION, SOURCE OF DATA, etc.

Thein Well Company 1337
Licensee Business Name _____ Lic. or Reg. No. _____

Michael Thein 2333 6/5/25
Certified Representative Signature _____ Certified Rep. No. _____ Date _____

Nathan Herrboldt
Name of Driller _____

IMPORTANT - FILE WITH PROPERTY PAPERS WELL OWNER COPY **888244**

WELL OR BORING LOCATION
County Name Sherburne

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING CONSTRUCTION RECORD
Minnesota Statutes, chapter 103I

MINNESOTA UNIQUE WELL
AND BORING NO.

888245

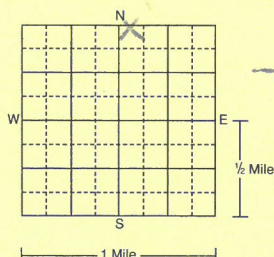
Township Name Havin Township No. 35N Range No. 30W Section No. 30 Fraction (sm. → lg.) NWNWNE
¼ ¼ ¼ ¼

WELL/BORING DEPTH (completed) 35 ft. DATE WORK COMPLETED 5/27/25

GPS LOCATION — decimal degrees (to four decimal places).
Latitude _____ Longitude _____

House Number, Street Name, City, and ZIP Code of Well Location _____

Show exact location of well/boring in section grid with "X." Sketch map of well/boring location. Showing property lines, roads, buildings, and direction.



DRILLING METHOD
☒ Cable Tool ☐ Driven ☐ Dual Rotary
☒ Auger ☐ Rotary ☐ Rotasonic
☐ Other _____

DRILLING FLUID None WELL HYDROFRACTURED? ☐ Yes ☒ No
From _____ ft. To _____ ft.

USE ☐ Domestic ☒ Monitoring ☐ Heating/Cooling
☐ Noncommunity PWS ☐ Irrigation ☐ Industry/Commercial
☐ Community PWS ☐ Dewatering ☐ Remedial
☐ Elevator ☐ _____

CASING MATERIAL Drive Shoe? ☐ Yes ☒ No
☐ Steel ☐ Threaded ☐ Welded
☒ Plastic ☐ _____

CASING Diameter 2 in. To 25 ft. Weight _____ lbs./ft. Specifications _____
_____ in. To _____ ft. _____ lbs./ft. _____
_____ in. To _____ ft. _____ lbs./ft. _____

SCREEN Johnson OPEN HOLE
Make PVC slot From _____ ft. To _____ ft.
Type _____ Diam. 2"
Slot/Gauze .010 Length 10'
Set between 25 ft. and 35 ft. FITTINGS _____

STATIC WATER LEVEL 25 ft. ☒ Below ☐ Above land surface
Date measured 5-27-25 Dry hole ☐ Yes ☒ No

PUMPING LEVEL (below land surface) NA
ft. after _____ hrs. pumping _____ g.p.m.

PROPERTY OWNER'S NAME/COMPANY NAME

Row Havin Township

Property owner's mailing address if different than well location address indicated above.

PO Box 339
St. Cloud MN 56302-339

WELL OWNER'S NAME/COMPANY NAME

MPCA

Well/boring owner's mailing address if different than property owner's address indicated above.

520 Lafayette Rd
St. Paul MN 55155

WELLHEAD COMPLETION
☐ Pitless/adaptor manufacturer _____ Model _____
☒ Casing protection 6" Protop ☒ 12 in. above grade
☐ At-grade ☐ Well House ☐ Hand Pump

GROUT INFORMATION (specify bentonite, cement-sand, neat-cement, concrete, cuttings, or other)
Material Neat Cement From 0 To 4 ft. 2 Yds. ☐ Bags
Material Bentonite From 4 To 22 ft. 2 Yds. ☒ Bags

Material _____ From _____ To _____ ft. _____ Yds. ☐ Bags
Driven casing seal From _____ To _____ Bags One bag = 94 lbs. cement or 50 lbs. bentonite

GEOLOGICAL MATERIALS	COLOR	HARDNESS OF MATERIAL	FROM	TO
<u>Sandy topsoil</u>	<u>blk brown</u>	<u>med</u>	<u>0</u>	<u>5</u>
<u>Sand</u>	<u>brown</u>	<u>med</u>	<u>5</u>	<u>10</u>
<u>Sand gravel/lense</u>	<u>brown</u>	<u>med</u>	<u>10</u>	<u>15</u>
<u>Sand sm gravel</u>	<u>brown</u>	<u>med</u>	<u>15</u>	<u>20</u>
<u>Small gravel</u>	<u>brown</u>	<u>hard</u>	<u>20</u>	<u>25</u>
<u>Wet sand gravel</u>	<u>brown</u>	<u>med</u>	<u>25</u>	<u>30</u>
<u>Sand gravel clay</u>	<u>brown red</u>	<u>med hard</u>	<u>30</u>	<u>35</u>

NEAREST KNOWN SOURCE OF CONTAMINATION Unknown
Well is _____ feet _____ direction from _____ type _____

Well disinfected upon completion? ☐ Yes ☐ No

PUMP N/A

☐ Not installed Date installed _____

Manufacturer's name _____

Model Number _____ HP _____ Volts _____

Length of drop pipe _____ ft. Capacity _____ g.p.m.

Type: ☐ Submersible ☐ L.S. Turbine ☐ Reciprocating ☐ Jet ☐ _____

ABANDONED WELLS N/A

Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

VARIANCE N/A

Was a variance granted from the MDH for this well? ☐ Yes ☐ No TN# _____

WELL CONTRACTOR CERTIFICATION

This well was drilled under my supervision and in accordance with Minnesota Rules, chapter 4725. The information contained in this report is true to the best of my knowledge.

Thein Well Company 1337
Licensee Business Name Lic. or Reg. No.

Michael Thein 2333 6/5/25
Certified Representative Signature Certified Rep. No. Date

Nathan Herrboldt
Name of Driller

Use a second sheet, if needed.

REMARKS, ELEVATION, SOURCE OF DATA, etc.

IMPORTANT - FILE WITH PROPERTY PAPERS WELL OWNER COPY

888245

WELL OR BORING LOCATION
County Name Sherburne

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING CONSTRUCTION RECORD
Minnesota Statutes, chapter 103I

MINNESOTA UNIQUE WELL
AND BORING NO.

888246

Township Name Havin Township No. 35N Range No. 30W Section No. 30 Fraction (sm. → lg.) SW SW NE
1/4 1/4 1/4

WELL/BORING DEPTH (completed) 30 ft. DATE WORK COMPLETED 5/28/25

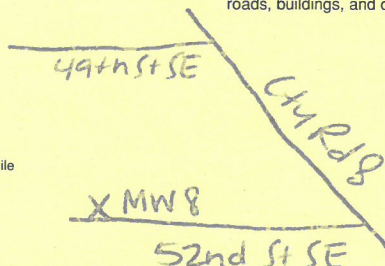
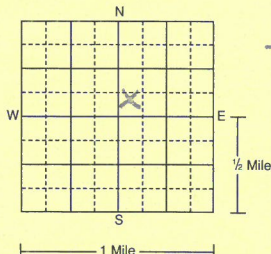
GPS LOCATION—decimal degrees (to four decimal places)
Latitude 45.49385246 Longitude 94.119617120

DRILLING METHOD
☒ Cable Tool ☐ Driven ☐ Dual Rotary
☒ Auger ☐ Rotary ☐ Rotasonic
☐ Other

House Number, Street Name, City, and ZIP Code of Well Location
Row 52nd St SE St. Cloud MN 56304

DRILLING FLUID None WELL HYDROFRACTURED? ☐ Yes ☒ No
From _____ ft. To _____ ft.

Show exact location of well/boring in section grid with "X." Sketch map of well/boring location.
Showing property lines, roads, buildings, and direction.



USE ☐ Domestic ☒ Monitoring ☐ Heating/Cooling
☐ Noncommunity PWS ☐ Irrigation ☐ Industry/Commercial
☐ Community PWS ☐ Dewatering ☐ Remedial
☐ Elevator ☐

CASING MATERIAL Drive Shoe? ☐ Yes ☒ No
☐ Steel ☐ Threaded ☐ Welded
☒ Plastic

CASING DIAMETER 2 in. To 20 ft. Weight _____ lbs./ft. Specifications _____
_____ in. To _____ ft. _____ lbs./ft. _____
_____ in. To _____ ft. _____ lbs./ft. _____

PROPERTY OWNER'S NAME/COMPANY NAME
Row Havin Township

Property owner's mailing address if different than well location address indicated above.
PO Box 339
St. Cloud MN 56302-339

SCREEN Make Johnson OPEN HOLE From _____ ft. To _____ ft.
Type PVC Slot Diam. _____

Slot/Gauze .010 Length _____
Set between 20 ft. and 30 ft. FITTINGS

STATIC WATER LEVEL 29 ft. ☒ Below ☐ Above land surface
Date measured 5-28-25 Dry hole ☐ Yes ☒ No

WELL OWNER'S NAME/COMPANY NAME
MPCA

Well/boring owner's mailing address if different than property owner's address indicated above.
520 Lafayette Rd
St. Paul MN 55155

PUMPING LEVEL (below land surface)
NA ft. after _____ hrs. pumping _____ g.p.m.

WELLHEAD COMPLETION
☐ Pitless/adaptor manufacturer _____ Model _____
☒ Casing protection 6" Protop ☒ 12 in. above grade
☐ At-grade ☐ Well House ☐ Hand Pump

GROUT INFORMATION (specify bentonite, cement-sand, neat-cement, concrete, cuttings, or other)
Material Neat Cement From 0 To 4 ft. 2 Yds. ☒ Bags
Material Bentonite From 4 To 17 ft. 2 Yds. ☒ Bags

Material _____ From _____ To _____ ft. _____ Yds. ☐ Bags
Driven casing seal From _____ To _____ Bags One bag = 94 lbs. cement or 50 lbs. bentonite

GEOLOGICAL MATERIALS	COLOR	HARDNESS OF MATERIAL	FROM	TO
<u>Sandy Top Soil</u>	<u>brown</u>	<u>med</u>	<u>0</u>	<u>5</u>
<u>Sand</u>	<u>brown</u>	<u>med</u>	<u>5</u>	<u>10</u>
<u>Sand gravel</u>	<u>brown</u>	<u>med</u>	<u>10</u>	<u>25</u>
<u>Wet sand gravel</u>	<u>brown</u>	<u>med</u>	<u>25</u>	<u>30</u>
<u>gravel clay lens</u>	<u>brdk gray</u>	<u>hard</u>	<u>30</u>	<u>35</u>

NEAREST KNOWN SOURCE OF CONTAMINATION Unknown
Well is _____ feet _____ direction from _____ type

Well disinfected upon completion? ☐ Yes ☐ No

PUMP NA
☐ Not installed Date installed _____
Manufacturer's name _____

Model Number _____ HP _____ Volts _____
Length of drop pipe _____ ft. Capacity _____ g.p.m.
Type: ☐ Submersible ☐ L.S. Turbine ☐ Reciprocating ☐ Jet ☐

ABANDONED WELLS NA
Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

VARIANCE NA
Was a variance granted from the MDH for this well? ☐ Yes ☐ No TN# _____

WELL CONTRACTOR CERTIFICATION
This well was drilled under my supervision and in accordance with Minnesota Rules, chapter 4725.
The information contained in this report is true to the best of my knowledge.

REMARKS, ELEVATION, SOURCE OF DATA, etc.

Thein Well Company 1337
Licensee Business Name Lic. or Reg. No.
Michael Thein 2333 6/5/25
Certified Representative Signature Certified Rep. No. Date
Nathan Herrboldt
Name of Driller

IMPORTANT - FILE WITH PROPERTY PAPERS WELL OWNER COPY **888246**

WELL OR BORING LOCATION

County Name

Sherburne

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING CONSTRUCTION RECORD

Minnesota Statutes, chapter 103I

MINNESOTA UNIQUE WELL
AND BORING NO.

888247

Township Name
HavinTownship No.
35NRange No.
30WSection No.
30Fraction (sm. to lg.)
SW SE NE
1/4 1/4 1/4WELL/BORING DEPTH (completed)
35 ft.

DATE WORK COMPLETED

5/28/25

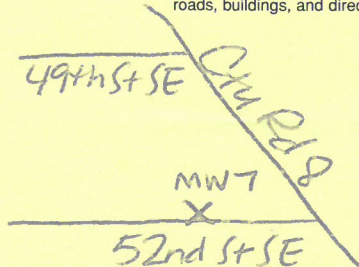
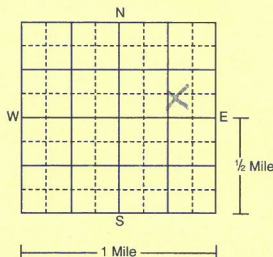
GPS LOCATION - decimal degrees (to four decimal places)

Latitude 45.49391610 Longitude 94.1137067

House Number, Street Name, City, and ZIP Code of Well Location

ROW 52nd St SE St. Cloud MN 56304

Show exact location of well/boring in section grid with "X."

Sketch map of well/boring location.
Showing property lines,
roads, buildings, and direction.

PROPERTY OWNER'S NAME/COMPANY NAME

Row Havin Township

Property owner's mailing address if different than well location address indicated above.

PO Box 339
St. Cloud MN 56302-339

WELL OWNER'S NAME/COMPANY NAME

MPCA

Well/boring owner's mailing address if different than property owner's address indicated above.

520 Lafayette Rd
St. Paul MN 55155

DRILLING METHOD

☐ Cable Tool
☒ Auger
☐ Other☐ Driven
☐ Rotary☐ Dual Rotary
☐ Rotasonic

DRILLING FLUID

None

WELL HYDROFRACTURED? ☐ Yes ☒ No

From _____ ft. To _____ ft.

USE

☐ Domestic
☐ Noncommunity PWS
☐ Community PWS
☐ Elevator☒ Monitoring
☐ Irrigation
☐ Dewatering☐ Heating/Cooling
☐ Industry/Commercial
☐ Remedial

CASING MATERIAL

☐ Steel
☒ PlasticDrive Shoe? ☐ Yes ☒ No
☐ Threaded ☐ Welded

HOLE DIAM.

CASING
Diameter

2 in.

To 25 ft.

Weight

lbs./ft.

Specifications

8 1/4 in.

To 25 ft.

SCREEN

Make Johnson

Type PVC Slot

Slot/Gauze .010

Set between 25 ft. and 35 ft.

OPEN HOLE

From _____ ft. To _____ ft.

Diam. 2"

Length 10'

Fittings

STATIC WATER LEVEL

25 ft.

☒ Below ☐ Above land surface

Date measured 5-28-25

Dry hole ☐ Yes ☒ No

PUMPING LEVEL (below land surface)

NA

ft. after _____ hrs. pumping _____ g.p.m.

WELLHEAD COMPLETION

☐ Pitless/adaptor manufacturer

Model

☒ Casing protection 6" Protop☒ 12 in. above grade☐ At-grade ☐ Well House ☐ Hand Pump

GROUT INFORMATION (specify bentonite, cement-sand, neat-cement, concrete, cuttings, or other)

Material Neat Cement

From 0 To 4 ft.

2

Yds.

Bags

Material Bentonite

From 4 To 22 ft.

2

Yds.

Bags

Material _____ From _____ To _____ ft.

Yds.

Bags

Driven casing seal From _____ To _____ Bags

One bag = 94 lbs. cement
or 50 lbs. bentonite

GEOLOGICAL MATERIALS	COLOR	HARDNESS OF MATERIAL	FROM	TO
Sandy Top Soil	brown	med	0	5
Sand	brown	med	5	10
Sand In gravel	brown	med	10	15
Sand gravel	brown	med	15	25
Wet sand gravel	brown	med	25	30
Wet Silty sand gravel	brown	med	30	35

Use a second sheet, if needed.

REMARKS, ELEVATION, SOURCE OF DATA, etc.

NEAREST KNOWN SOURCE OF CONTAMINATION Unknown

Well is _____ feet _____ direction from _____ type

Well disinfected upon completion? ☐ Yes ☐ No

PUMP NA

☐ Not installed Date installed _____

Manufacturer's name _____

Model Number _____ HP _____ Volts _____

Length of drop pipe _____ ft. Capacity _____ g.p.m.

Type: ☐ Submersible ☐ L.S. Turbine ☐ Reciprocating ☐ Jet ☐ _____

ABANDONED WELLS NA

Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

VARIANCE NA

Was a variance granted from the MDH for this well? ☐ Yes ☐ No TN# _____

WELL CONTRACTOR CERTIFICATION

This well was drilled under my supervision and in accordance with Minnesota Rules, chapter 4725.
The information contained in this report is true to the best of my knowledge.

Thein Well Company 1337

Licensee Business Name

Lic. or Reg. No.

Certified Representative Signature

Certified Rep. No.

Date

Nathan Herrboldt

Name of Driller

IMPORTANT - FILE WITH PROPERTY PAPERS WELL OWNER COPY

888247

St. Cloud Monitor Well Installation

Legend

 MW

 MW 5X UN#888245

49th St SE

N 45.4967529 W 94.11432095  MW 6 UN#888244

 MW 8 UN#888246

52nd St SE

 MW 7 UN#888247

52nd St SE

Google Earth

Image Landsat / Copernicus

1000 ft

