

December 22, 2025

New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau C
625 Broadway, 12th Floor
Albany, New York 12233-7014

Attn: Greta Kowalski, P.G. – Project Manager
P: (518) 402-2029
E: greta.kowalski@dec.ny.gov

RE: Monthly Progress Report – December 2025
Brownfield Cleanup Program
Westchester County Airport Site No. C360174
240 Airport Road, West Harrison, New York 10604
Terracon Project No. JA257006

Dear Ms. Kowalski:

Terracon Consultants-NY, Inc. (Terracon) has prepared this Monthly Progress Report summarizing work performed for the month of December 2025 at the Westchester County Airport (HPN) site located in West Harrison, New York ("site"). Remedial activities are being performed at the site under the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP).

Activities for this Reporting Period

The following work is currently in progress. Refer to **Appendix A** for a full schedule of proposed and completed work. Site locations and diagrams are presented in attached **Appendix B**.

1.) Interim Site Management Plan (ISMP)

- a. The NYSDEC issued a formal acceptance letter of the final version of the ISMP on June 25, 2025. As future projects are planned or if site conditions change, the ISMP will be revised and submitted to the Department for review and approval.

2.) Outfall OF-7

- a. Treatment system Operations, Monitoring, and Maintenance (OMM) have continued since the last reporting period.

- b. A media exchange/change-out of spent granular activated carbon (GAC) and ion exchange (IX) resin was performed December 18-19, 2025. The treatment media had last been changed out/exchanged in early August 2025.
- c. Twice-per-month treatment system sampling was performed on November 11, 2025; November 24, 2025; and December 18, 2025. Refer to the Outfall OF-7 Treatment System Process Schematic in **Appendix B** displaying treatment system sample locations/labeling.
- d. As of the date of this report, approximately 1,900,000 gallons of combined stormwater/groundwater have been pumped from the sump in Outfall OF-7 and processed by the on-site treatment system.
- e. A summary table of results received through the November 24, 2025 treatment system sampling is presented in Table 1, **Appendix C**. Current period laboratory analytical reports can be found in **Appendix D**.
- f. The discharge of treated water from the OF-7 Treatment System is sampled for the site's SPDES parameters for Outfall OF-7 on a monthly basis.

3.) Construction/Capital Improvement Projects

- a. IRM Work Plan for HVAC Upgrades (HVAC Work Plan)
 - i. The NYSDEC issued a formal letter of acceptance on July 3, 2025.
 - ii. Excavation activities for the concrete pad construction and HVAC system installation began on 8/18/25 and were completed on 8/22/2025.
 - iii. A total of six soil samples were collected from the limits of the excavation during construction activities. Refer to previous Monthly reports for HVAC data and results.
 - iv. The NYSDEC accepted Terracon's request for on-site Beneficial Use for the approximate 50 cubic yards of excess soil generated during the project on November 24, 2025. Soil management documentation will be provided upon completion. Field efforts for moving the stockpile were conducted on 12/8/25. A Construction Completion Report (CCR) will be prepared for submittal in January 2026.
- b. Runway 16/34 Shoulders and Edge Lighting Rehabilitation (Runway Shoulders Project)
 - i. Project is associated with FAA grant requirements; construction is scheduled for Spring 2026. The project in general includes widening both runway shoulders by approximately 20 feet.
 - ii. NYSDEC issued a formal letter of acceptance for the IRM Work plan on September 4th, 2025.

- iii. Fieldwork took place from 10/20/25 to 10/25/25.
 - iv. Fourteen soil borings were completed with samples collected in general accordance with the approved Workplan. Refer to previous Monthly reports for Runway data and results.
 - v. Findings/conclusions and recommendations for soil management are anticipated for submittal to NYSDEC in early January 2026
- c. Snow Removal Equipment Building at Building 10 (SRE Building)
- i. An IRM work plan for pre-construction site characterization was provided on October 6, 2025.
 - ii. The NYSDEC provided comments on November 25, 2025. Terracon and HPN will be re-submitting the work plan before the end of December 2025.
 - iii. Construction is anticipated in May 2026.
- d. Infrastructure Improvements for Gas Main Extension.
- i. An IRM work plan for pre-construction site characterization was provided on December 16, 2025.
 - ii. Construction is anticipated to start in April 2026.

4.) Building 10 / Burn Pit Area

- a. An overview of Terracon's initial phase of further remedial investigations for this area of concern (AOC) was discussed with NYSDEC on November 4, 2025.
 - i. An IRM Work Plan was submitted to NYSDEC on December 12, 2025.

5.) Outfall OF-4

- a. The Airport and Terracon are planning to conduct quarterly PFAS sampling via EPA Method 1633A at Outfall OF-4; from surface water at the HPN property approximately 400-feet downstream of Outfall OF-4; and offsite sample location E-11.
- b. A brief letter/planned work plan and schedule are anticipated to be provided to NYSDEC in early January 2026.

6.) MW-13R PlumeStop Injection Testing

- a. A brief letter/planned work plan and schedule are anticipated to be provided to NYSDEC by end of January 2026 for the re-assessment of groundwater quality in the vicinity of FMW-13R and PlumeStop injection site.

Modificatons to Approved Work Plans

Terracon will incorporate previous IRM findings and utilize the information to generate new work plan submittals.

Terracon received the April 2025 semi-annual groundwater sampling results which will be incorporated into the planning/evaluation for further site characterization.

Remedial Investigation Work Plan (RIWP): with concurrence from discussion with NYSDEC representatives, and in consideration of upcoming capital improvement work, the approved RI work plan from March 2024 will be completed in a phased approach to incorporate the multiple work areas of upcoming capital improvement/construction projects at the airport.

Sample Collection and Analytical Data

A summary of the sampling activities performed during this period is provided below. Results are summarized in respective sections and appendices of this Monthly Report. **Appendix D** lists all analytical reports.

1. Outfall OF-7 IRM

- a. A summary table of results through the November 24, 2025 treatment system sampling is presented in Table 1, and current period laboratory analytical reports (**Appendix D**).
- b. The discharge of treated water from the OF-7 Treatment System is sampled for the site's SPDES parameters for Outfall OF-7 on a monthly basis. The results of the SPDES-related parameters are also included in **Appendix C**.
- c. A summary of the PFOA/PFOS results from surface water sampling compared to historical sampling data is presented in Table 2 and along with select trend charts and the surface water sampling analytical reports, included in **Appendix C**.

2. HVAC Upgrades

- a. Sample results from the soil boring sampling locations and excavation/spoils stockpile sampling have been reported in previous monthly status reports.

3. Runway 16/34 Shoulders and Edge Lighting Rehabilitation (Runway Shoulders Project)

- a. Sample results from the soil boring sampling locations have been reported in previous monthly status reports.

Problems or Delays in Implementation of Remedial Work or Schedule/Corrective Actions

Deliverables are being prioritized in collaboration with NYSDEC and will be provided as completed. Status of activities will be provided each month via these Monthly Reports.

CAMP Observations

There was no fieldwork requiring air monitoring performed since the previous Monthly Report was submitted, therefore no CAMP requirements or samples collected.

Planned Activities for Next Month

1. OF-7 IRM: Continued Operation, Maintenance, Monitoring and Sampling of the OF-7 IRM Treatment System.
 - a. Prepare 6-month IRM Status Update Report of OF-7 system for end of January 2026.
2. HVAC Work Plan: Construction Completion Report.
3. Submittal of IRM work plans for:
 - a. Building 10 / Burn Pit Area – completed 12/12/2025
 - b. Gas Main Extension – completed 12/16/2025
 - c. WJWW – IRM work plan(s) and field notes/reports are being prepared and submitted by WJWW and its consultants.

For activities not described above, Terracon will provide a 10-calendar day prior notice for planned field activities.

We appreciate the opportunity to provide this progress report. If you have any questions or comments, please give us a call.

Sincerely,

Terracon Consultants-NY, Inc.



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Operations Manager
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Lucas Barroso-Giachetti

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Senior Environmental Engineer
lucas.barroso-giachetti@terracon.com

Copy: Hugh Greechan, Jr. P.E., Westchester County
John Nonna, Westchester County Attorney
April Gasparri, Westchester County
Brian Hegt, Westchester County
Francisco Tejada, Westchester County Airport
John Inserra, Westchester County Airport
Nadine Zeidan, Westchester County Airport
K. Thompson, NYSDEC
S. Saucier, NYSDEC
M. Doroski, NYSDOH
K. Kulow, NYSDOH

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Appendix A

Remedial Work Schedule

Remedial Action Schedule

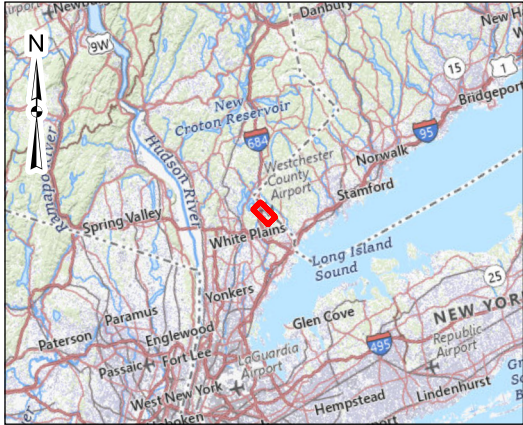
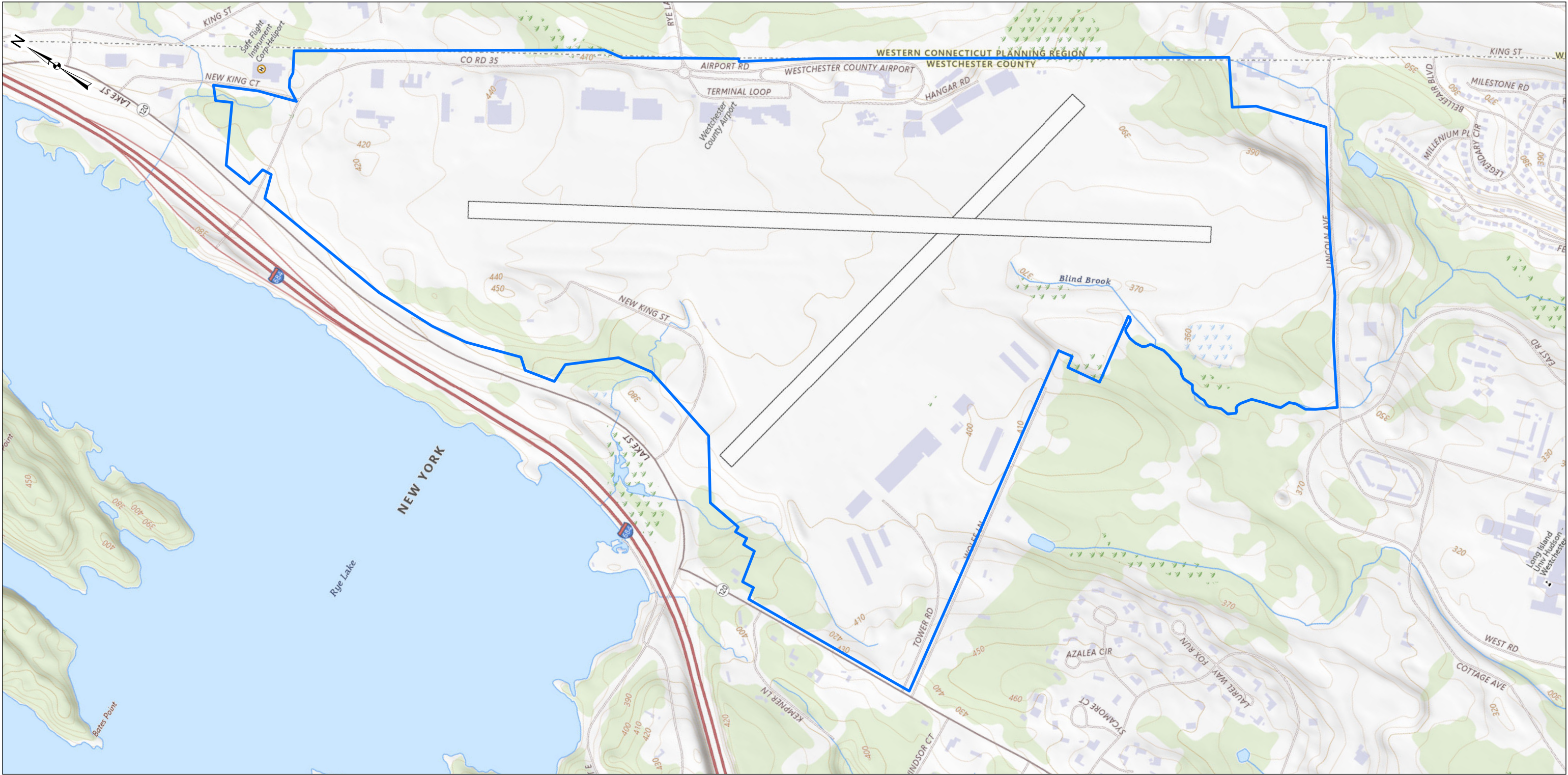
Milestone / Deliverable	Anticipated Due Date	Submitted	Returned
1 - DRAFT Interim Site Management Plan	3/17/2025	3/19/25	5/13/25
Address Comments and Resubmit	6/1/2025	6/13/25	N/A
Conditional Approval	6/25/25		
2 - DRAFT IRM WP Update for Outfall OF-7		3/25/25	4/10/25
Address comments and Re-submit	4/25/25	4/25/25	5/13/2025
Mobilization of Equipment	4/30/25	5/13/25	N/A
Installation and Start-up	Week of 5/19/2025	N/A	N/A
System OMM and Reporting	Monthly per IRM WP		
3a - DRAFT IRM WP for HVAC Concrete Pad	5/1/25	5/16/25	6/16/2025
Address Comments and Resubmit	6/18/2025	6/18/25	7/3/25
DEC Acceptance	7/3/25		
Soil Investigation	7/8/25	7/9/25	N/A
HVAC Construction	8/18/25	N/A	N/A
Construction Completion Report	1/15/26		
3b - DRAFT IRM WP for Runway Shoulder Installation	7/1/25	7/16/25	8/14/25
Address Comments and Resubmit	8/31/25	8/29/25	N/A
DEC Acceptance	9/4/25		
Soil Investigation	10/20/25		
Runway Construction	April 2026		
3c - DRAFT IRM WP for SRE Building	10/15/2025	10/6/25	11/24/25
DEC Acceptance			
Soil Investigation	TBD		
SRE Construction	Spring 2026		
3d – Natural gas line installation IRM WP	12/15/25	12/16/25	
Natural gas line construction	EST Q2 2026		
4 – DRAFT Building 10/Burn Pit Area IRM WP	12/15/25	12/12/25	
5 – DRAFT Outfall OF-4 IRM WP	1/9/26		
6 – WJWW Sewer Line on Site property IRM WP	TBD		
DRAFT Stormwater Prevention Plan (SWPP)	WJWW 7/18/25	NLT 8/1/25	



Milestone / Deliverable	Anticipated Due Date	Submitted	Returned
Sewer line construction	EST Q2 2026		

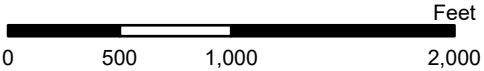
Appendix B

Figures



Legend
BCP Site Boundary

DATA SOURCES:
ESRI Basemaps
Westchester County GeoHub
New York DEC - Remediation Site Boundaries



Project No.:
JA257006
Date:
Dec 2025
Drawn By:
HPM
Reviewed By:
DP



70 Vantage Point Dr, Ste 1
Rochester, NY

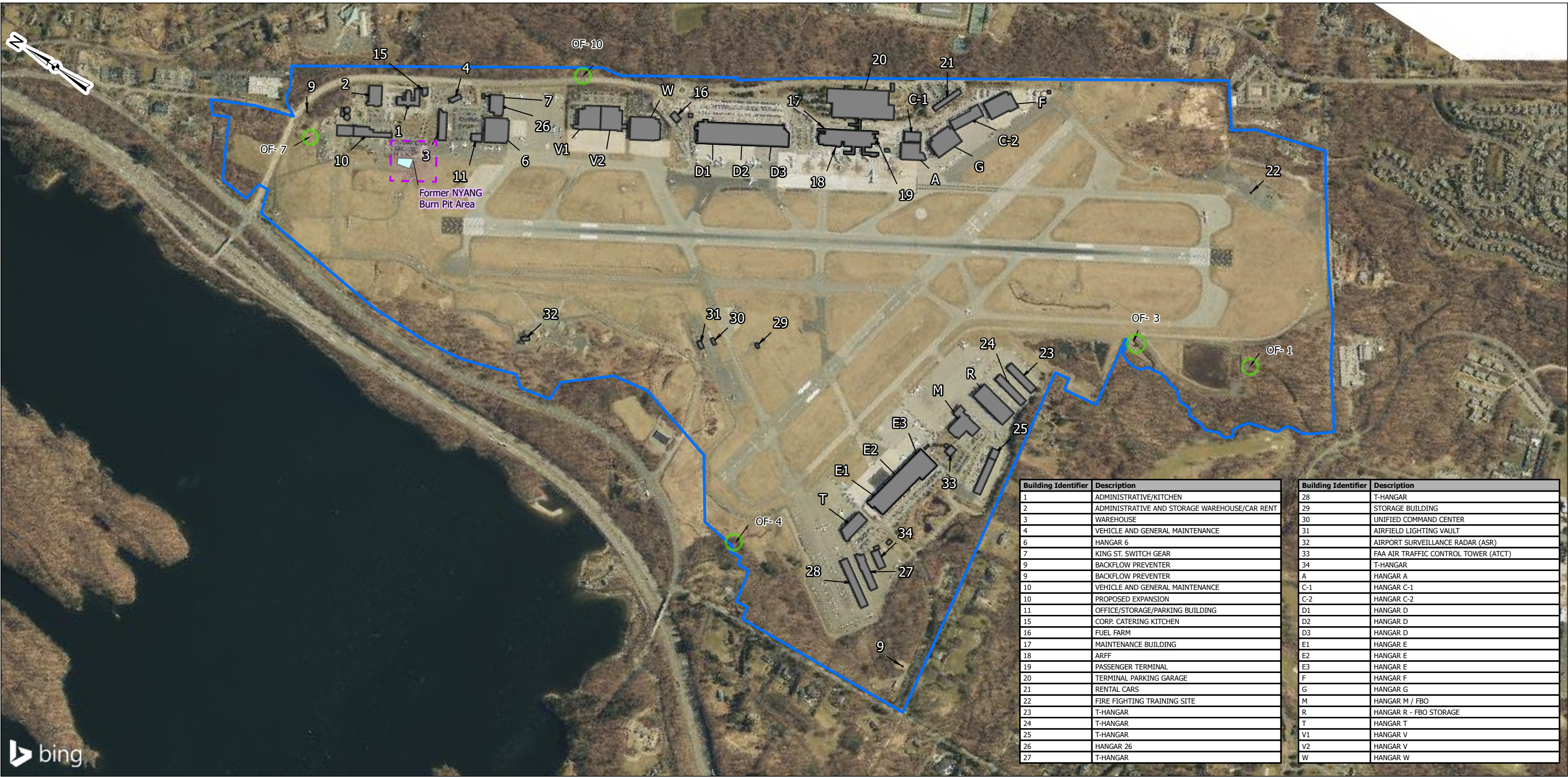
PH. 585-247-3471 terracon.com

Topographic Map

Westchester County Airport
West Harrison, New York

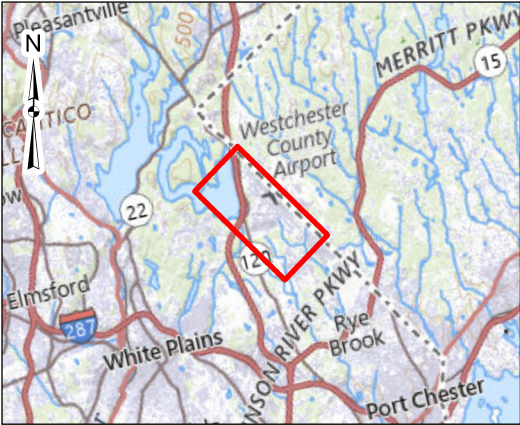
Exhibit

1



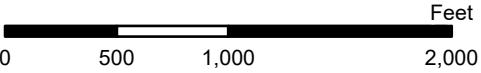
Building Identifier	Description
1	ADMINISTRATIVE/KITCHEN
2	ADMINISTRATIVE AND STORAGE WAREHOUSE/CAR RENT
3	WAREHOUSE
4	VEHICLE AND GENERAL MAINTENANCE
6	HANGAR 6
7	KING ST. SWITCH GEAR
9	BACKFLOW PREVENTER
9	BACKFLOW PREVENTER
10	VEHICLE AND GENERAL MAINTENANCE
10	PROPOSED EXPANSION
11	OFFICE/STORAGE/PARKING BUILDING
15	CORP. CATERING KITCHEN
16	FUEL FARM
17	MAINTENANCE BUILDING
18	ARFF
19	PASSENGER TERMINAL
20	TERMINAL PARKING GARAGE
21	RENTAL CARS
22	FIRE FIGHTING TRAINING SITE
23	T-HANGAR
24	T-HANGAR
25	T-HANGAR
26	HANGAR 26
27	T-HANGAR

Building Identifier	Description
28	T-HANGAR
29	STORAGE BUILDING
30	UNIFIED COMMAND CENTER
31	AIRFIELD LIGHTING VAULT
32	AIRPORT SURVEILLANCE RADAR (ASR)
33	FAA AIR TRAFFIC CONTROL TOWER (ATCT)
34	T-HANGAR
A	HANGAR A
C-1	HANGAR C-1
C-2	HANGAR C-2
D1	HANGAR D
D2	HANGAR D
D3	HANGAR D
E1	HANGAR E
E2	HANGAR E
E3	HANGAR E
F	HANGAR F
G	HANGAR G
M	HANGAR M / FBO
R	HANGAR R - FBO STORAGE
T	HANGAR T
V1	HANGAR V
V2	HANGAR V
W	HANGAR W



- Legend**
- BCP Site Boundary
 - SPDES Outfall
 - Buildings
 - Burn Pit Boundary (approx.)
 - Former NYANG Burn Pit Area

DATA SOURCES:
Westchester County GeoHub
NYSDEC - BCP Site Boundary



Project No.:
JA257006
Date:
Dec 2025
Drawn By:
HPM
Reviewed By:
DP



70 Vantage Point Dr, Ste 1
Rochester, NY

PH. 585-247-3471 terracon.com

Site Diagram

Westchester County Airport
West Harrison, New York

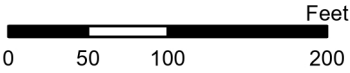
Exhibit

2



- Legend**
- BCP Site Boundary
 - SPDES Outfall
 - Outfall-7 (OF-7) and Adjacent Locations

DATA SOURCES:
ESRI Basemaps
Westchester County GeoHub
New York DEC - Remediation Site Boundaries



Project No.:
JA257006
Date:
Oct 2025
Drawn By:
HPM
Reviewed By:

terracon
70 Vantage Point Dr, Ste 1
Rochester, NY
PH. 585-247-3471 terracon.com

Outfall-7 (OF-7) Site Diagram
Westchester County Airport West Harrison, New York

Exhibit
3

Outfall OF-7 Treatment System Process Schematic
Westchester County Airport / NYSDEC BCP Site No. C360174
240 Airport Road, West Harrison, New York 10604

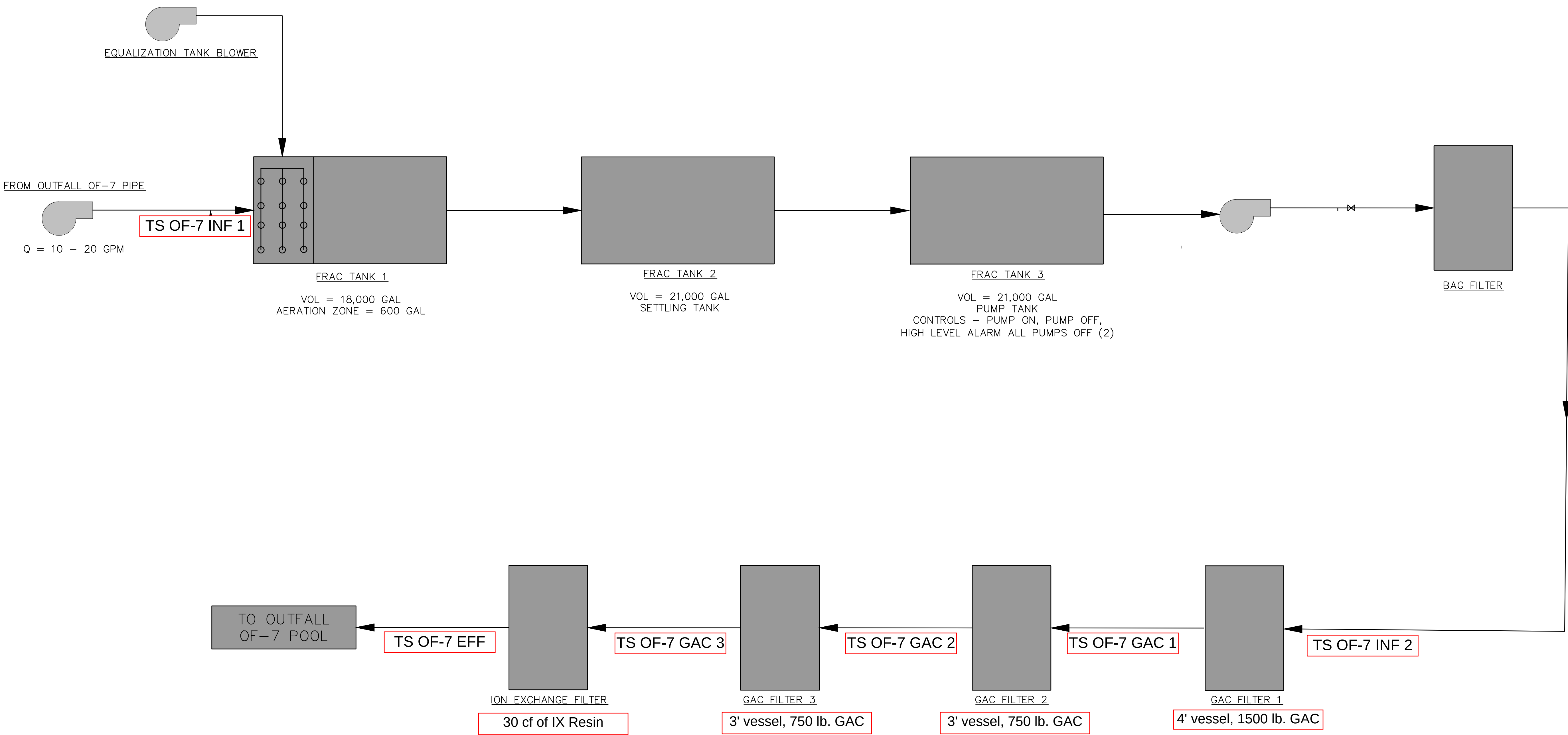


Exhibit 4

PROCESS FLOW DIAGRAM

SHEET TITLE:

PROJECT TITLE:
WESTCHESTER AIRPORT PFAS TREATMENT
WESTCHESTER COUNTY AIRPORT
HARRISON, NY

REVISIONS:

NO.	DATE	DESCRIPTION	BY:

CIVIL ENGINEERING AND ENVIRONMENTAL SERVICES 3612 SOUTH SHACKLEFORD RD LITTLE ROCK, ARKANSAS 72205 PH: (501) 221-7122 FX: (501) 221-7775			
DESIGNED BY: BWJ	DATE: MAR. 11, 2025	N.T.S.	
DRAWN BY: JAM	SCALE:		
CHECKED BY: BWJ			

JOB NUMBER:
J2257015

Appendix C

Outfall-7 (OF-7) Treatment System Tables

Table 1
Summary of Outfall OF-7 Treatment System Sampling Results
Westchester County Airport / NYSDEC BCP Site No. C360174
240 Airport Road, West Harrison, New York 10604

values in nanograms per Liter (ng/L), ppt					
Groundwater / Human Health Criteria ¹		6.7	2.7	N/A	350
Sample Location	Date	PFOA	PFOS	Total PFAS ²	1-4 dioxane
Influent	6/2/2025	395	2,430	5,664	ND < 300
	6/16/2025	449	2840	6,376	ND < 300
	6/24/2025	681	3760	7,606	ND < 300
	7/10/2025	309	1470	3,527	NA
	7/21/2025	524	3500	7,227	ND < 300
	8/14/2025	553	2460	5,629	ND < 300
	8/26/2025	628	2920	5,949	ND < 300
	9/10/2025	538	2370	3,013	NA
	9/24/2025	719	3410	6,854	NA
	10/8/2025	31.2	276	498	NA
	10/29/2025	NS	NS	NS	NA
	11/11/2025	405	2,100	6,473	NA
	11/24/2025	528	2,350	6,811	NA
Effluent	5/22/2025	ND < 0.429	ND < 0.838	2.35	ND < 300
	6/2/2025	ND < 0.398	ND < 0.776	0.97	ND < 300
	6/16/2025	ND < 0.423	ND < 0.826	ND	ND < 300
	6/24/2025	ND < 0.423	ND < 0.826	ND	NA
	7/10/2025	NA	NA	NA	NA
	7/21/2025	ND < 0.765	1.51	4.06	NA
	8/14/2025	ND < 0.923	ND < 0.702	ND	NA
	8/26/2025	ND < 0.955	ND < 0.726	ND	ND < 300
	9/10/2025	ND < 1.00	ND < 0.762	ND	NA
	9/24/2025	ND < 0.903	ND < 0.686	ND	NA
	10/8/2025	ND < 0.919	ND < 0.699	1.68	NA
	10/29/2025	ND < 1.01	ND < 0.771	ND	NA
	11/11/2025	ND < 1.03	ND < 0.780	ND	NA
	11/24/2025	ND < 0.839	ND < 0.807	ND	NA
Notes	PFAS analyses via EPA Method 1633A; 1-4 dioxane analyses via EPA Method 8270				
1	NYSDEC has adopted ambient water quality guidance values for PFOA and PFOS of 6.7 ng/l (ppt) for PFOA and 2.7 ng/l (ppt) for PFOS, respectively. These human health criteria should also be applied to surface water that is used as a water supply.				
2	"Total PFAS" is a summation of target PFAS analytes via EPA Method 1633A				
Bold values	indicate compound detected above the analytical method reporting limit (RL)				
Shaded values	indicate compound detection above one/more NYSDEC criteria listed above				
ND	indicates compound not detected above the analytical method reporting level (RL)				
NA	compound not analyzed				

Table 2
Trend of Surface Water Sampling Results @ Outfall OF-7
Westchester County Airport / NYSDEC BCP Site No. C360174
240 Airport Road, West Harrison, New York 10604

values in nanograms per Liter (ng/L), ppt			
Groundwater / Human Health Criteria ¹		6.7	2.7
Sample Location	Date	PFOA	PFOS
OF-7 Pool	8/10/2023	553	1680
	8/23/2023	383	1530
	5/14/2025	52	505
	7/21/2025	3.3	18
	8/26/2025	ND < 0.963	1.6
	10/8/2025	23	172
			rain event
OF-7 Grate		PFOA	PFOS
	8/10/2023	438	2740
	8/23/2023	360	3340
	5/14/2025	83.3	757
	7/21/2025	11	70
	8/26/2025	5.2	42
	10/8/2025	21.6	159
			rain event
OF-7A		PFOA	PFOS
	8/10/2023	409	1770
	8/23/2023	335	2280
	5/14/2025	74	554
	7/21/2025	33	440
	8/26/2025	16.1	180
	10/8/2025	26.8	196
			rain event
E-10		PFOA	PFOS
	10/26/2022	183	791
	12/28/2022	121	604
	4/18/2023	135	532
	7/21/2025	33	234
	8/26/2025	26	190
	10/8/2025	27.9	175
			rain event

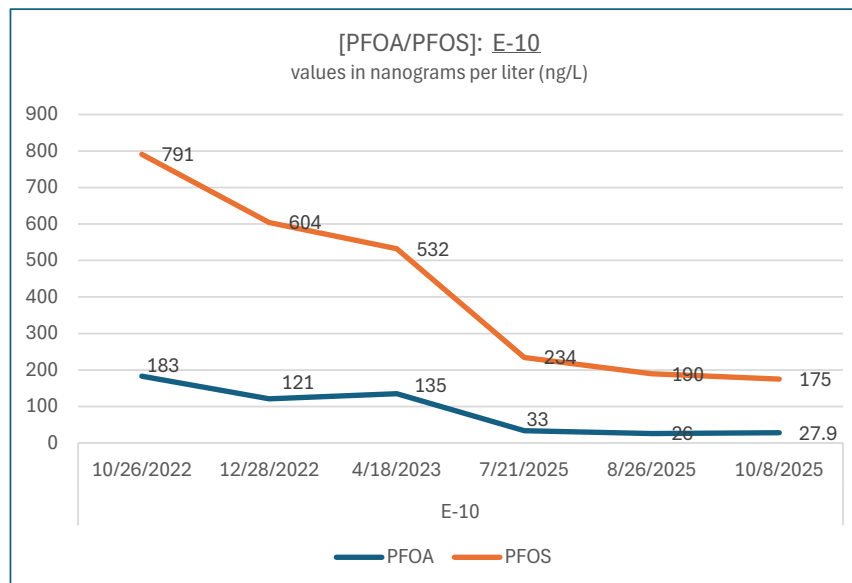
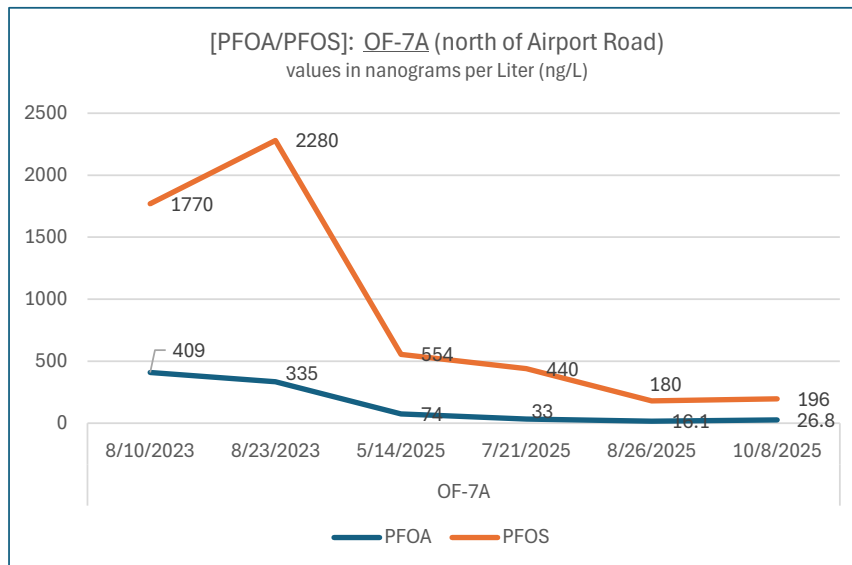
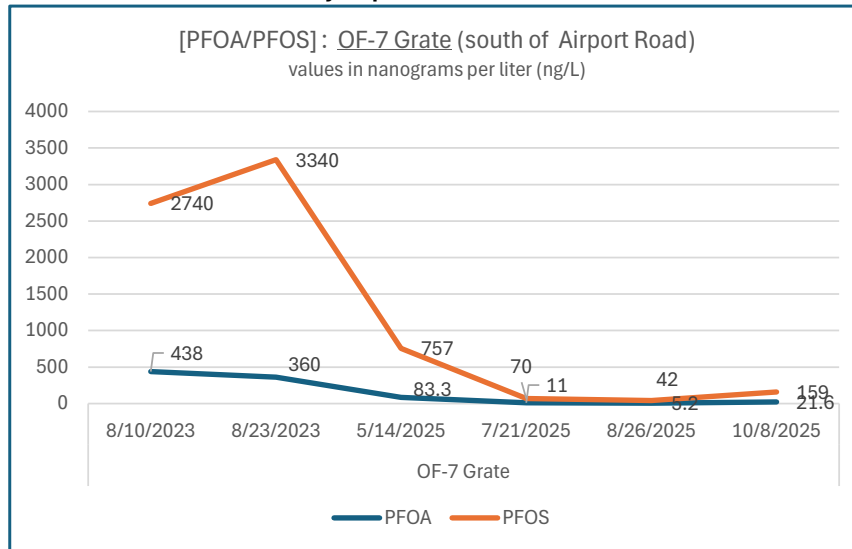
Notes PFAS analyses via EPA Method 1633.

1 NYSDEC has adopted ambient water quality guidance values for PFOA and PFOS.

Groundwater samples should be compared to the human health criteria of 6.7 ng/l (ppt) for PFOA and 2.7 ng/l (ppt) for PFOS. These human health criteria should also be applied to surface water that is used as a water supply.

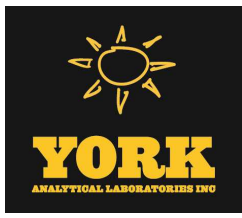
Sources: *Finalized Water Quality Guidance Values to Regulate PFOA, PFOS, and 1, 4-Dioxane (March 15, 2023), NYSDEC, and Sampling, Analysis, and Assessment of Per-and Polyfluoroalkyl Substances (PFAS), under NYSDEC's Part 375 Remedial Programs (April 2023), NYSDEC*

Table 2
Trend of Surface Water Sampling Results @ Outfall OF-7
Westchester County Airport / NYSDEC BCP Site No. C360174



Appendix D

Outfall-7 (OF-7) Treatment System Analytical Sample Results



Technical Report

prepared for:

Terracon Consultants, Inc.
201 Hammer Mill Rd
Rocky Hill CT, 06067
Attention: Don Pomeroy

Report Date: 11/25/2025
Client Project ID: J2257015, Task 7
York Project (SDG) No.: 25K0570



Report Date: 11/25/2025
Client Project ID: J2257015, Task 7
York Project (SDG) No.: 25K0570

Terracon Consultants, Inc.
201 Hammer Mill Rd
Rocky Hill CT, 06067
Attention: Don Pomeroy

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 11, 2025 and listed below. The project was identified as your project: **J2257015, Task 7.**

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

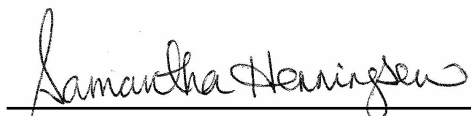
Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
25K0570-01	TS OF-7 INF1	Surface Water	11/11/2025	11/11/2025
25K0570-02	TS OF-7 GAC1	Other	11/11/2025	11/11/2025
25K0570-03	TS OF-7 GAC2	Other	11/11/2025	11/11/2025
25K0570-04	TS OF-7 GAC3	Other	11/11/2025	11/11/2025
25K0570-05	TS OF-7 EFF	Other	11/11/2025	11/11/2025
25K0570-06	Trip Blank	Water	11/11/2025	11/11/2025

General Notes for York Project (SDG) No.: 25K0570

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NYDOH-NY10854, NJDEP-CT005, PADEP-68-04440, CTDPH-PH0840; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NYDOH-NY12058, NJDEP-NY037, CTDPH-PH0837, NHDES-NH2097, MDDEP-375, PADEP-68-06231.

Approved By:



Samantha Henningsen
Laboratory Director - Queens

Date: 11/25/2025



Client:	Terracon Consultants, Inc.	York Sample ID:	25K0570-01
Client Project:	J2257015, Task 7	Date Received:	11/11/2025
Client Sample ID:	TS OF-7 INF1	Collection Date/Time:	11/11/25 12:07

Lab ID:	25K0570-01						Laboratory:	Queens		
Analysis:	PFAS Target compounds by LC/MS-MS					Matrix:	Surface Water			
Prep Method:	Sample Prepared by Method: EPA 1633 Prep									
Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	46.2		0.786	1.78	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
Perfluorohexanoic acid (PFHxA)	283		0.363	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
Perfluoroheptanoic acid (PFHpA)	213		0.706	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
Perfluorohexanesulfonic acid (PFHxS)	947		4.49	9.22	5	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:02	AM
Perfluorooctanoic acid (PFOA)	405		0.796	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
Perfluorooctanesulfonic acid (PFOS)	2100		3.83	9.38	5	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:02	AM
Perfluorononanoic acid (PFNA)	177		0.998	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
Perfluorodecanoic acid (PFDA)	10.5		0.575	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
Perfluoroundecanoic acid (PFUnA)	44.2		0.716	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
Perfluorododecanoic acid (PFDoA)	ND		0.605	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
Perfluorotridecanoic acid (PFTrDA)	ND		1.21	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
Perfluorotetradecanoic acid (PFTA)	ND		1.59	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
N-MeFOSAA	ND		0.504	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
N-EtFOSAA	ND		1.06	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
Perfluoropentanoic acid (PFPeA)	404		0.897	4.03	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
Perfluoro-1-octanesulfonamide (FOSA)	8.38		0.373	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
Perfluoro-1-heptanesulfonic acid (PFHpS)	46.5		0.312	1.93	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.625	1.95	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	218		2.34	7.66	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	28.8		2.27	7.74	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
Perfluoro-n-butanoic acid (PFBA)	99.3		1.64	8.06	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND		0.504	3.59	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND		3.02	4.03	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
Perfluoro-4-oxapentanoic acid (PFMPA)	ND		0.706	4.03	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
Perfluoro-5-oxahexanoic acid (PFMBA)	ND		1.41	4.03	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
Perfluoro-1-pentanesulfonate (PFPeS)	80.1		0.756	1.90	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		2.84	7.56	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
HFPO-DA (Gen-X)	ND		3.17	8.06	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
11CL-PF3OUdS	ND		2.25	7.62	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
9CL-PF3ONS	ND		2.77	7.54	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
ADONA	ND		2.99	7.62	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG



Client: Terracon Consultants, Inc.

York Sample ID: 25K0570-01

Client Project: J2257015, Task 7

Date Received: 11/11/2025

Client Sample ID: TS OF-7 INF1

Collection Date/Time: 11/11/25 12:07

Lab ID: 25K0570-01

Laboratory: Queens

Analysis: PFAS Target compounds by LC/MS-MS

Matrix: Surface Water

Prep Method: Sample Prepared by Method: EPA 1633 Prep

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
Perfluorododecanesulfonic acid (PFDoS)	ND		0.897	1.96	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.756	1.94	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3FTCA)	ND		2.38	10.1	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	ND		6.78	50.4	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
2H,2H,3H,3H-Perfluorodecanoic acid (7:3FTCA)	ND		23.3	50.4	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
N-MeFOSE	ND		7.16	20.2	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
N-MeFOSA	ND		0.716	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
N-EtFOSE	ND		7.34	20.2	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG
N-EtFOSA	ND		1.06	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:16	JBG

Surrogate Recoveries	Result	Flag	Acceptance Range	Reference Method	Analyzed
Surrogate: M3PFBS	131 %		40-135	EPA 1633A	11/22/25 10:02
Surrogate: M3PFBS	143 %	PFSu-H	40-135	EPA 1633A	11/22/25 10:16
Surrogate: M5PFHxA	111 %		40-130	EPA 1633A	11/22/25 10:02
Surrogate: M5PFHxA	110 %		40-130	EPA 1633A	11/22/25 10:16
Surrogate: M4PFHpA	106 %		40-130	EPA 1633A	11/22/25 10:02
Surrogate: M4PFHpA	91.8 %		40-130	EPA 1633A	11/22/25 10:16
Surrogate: M3PFHxS	106 %		40-130	EPA 1633A	11/22/25 10:02
Surrogate: M3PFHxS	118 %		40-130	EPA 1633A	11/22/25 10:16
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	116 %		40-130	EPA 1633A	11/22/25 10:16
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	106 %		40-130	EPA 1633A	11/22/25 10:02
Surrogate: M6PFDA	105 %		40-130	EPA 1633A	11/22/25 10:02
Surrogate: M6PFDA	105 %		40-130	EPA 1633A	11/22/25 10:16
Surrogate: M7PFUdA	99.5 %		30-130	EPA 1633A	11/22/25 10:02
Surrogate: M7PFUdA	100 %		30-130	EPA 1633A	11/22/25 10:16
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	78.3 %		10-130	EPA 1633A	11/22/25 10:16
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	63.4 %		10-130	EPA 1633A	11/22/25 10:02
Surrogate: M2PFTeDA	48.9 %		10-130	EPA 1633A	11/22/25 10:02
Surrogate: M2PFTeDA	53.5 %		10-130	EPA 1633A	11/22/25 10:16
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	90.9 %		5-130	EPA 1633A	11/22/25 10:16
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	101 %		5-130	EPA 1633A	11/22/25 10:02
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	116 %		40-130	EPA 1633A	11/22/25 10:02



Client: Terracon Consultants, Inc.

Client Project: J2257015, Task 7

Client Sample ID: TS OF-7 INF1

York Sample ID: 25K0570-01

Date Received: 11/11/2025

Collection Date/Time: 11/11/25 12:07

Lab ID: 25K0570-01

Analysis: PFAS Target compounds by LC/MS-MS

Prep Method: Sample Prepared by Method: EPA 1633 Prep

Laboratory: Queens

Matrix: Surface Water

Surrogate Recoveries	Result	Flag	Acceptance Range	Reference Method	Analyzed
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	104 %		40-130	EPA 1633A	11/22/25 10:16
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	123 %		40-130	EPA 1633A	11/22/25 10:16
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	118 %		40-130	EPA 1633A	11/22/25 10:02
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	108 %		40-130	EPA 1633A	11/22/25 10:02
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	136 %	PFSu-H	40-130	EPA 1633A	11/22/25 10:16
Surrogate: d3-N-MeFOSAA	93.3 %		40-170	EPA 1633A	11/22/25 10:02
Surrogate: d3-N-MeFOSAA	119 %		40-170	EPA 1633A	11/22/25 10:16
Surrogate: d5-N-EtFOSAA	97.9 %		25-135	EPA 1633A	11/22/25 10:02
Surrogate: d5-N-EtFOSAA	130 %		25-135	EPA 1633A	11/22/25 10:16
Surrogate: M2-6:2 FTS	154 %		40-200	EPA 1633A	11/22/25 10:02
Surrogate: M2-6:2 FTS	164 %		40-200	EPA 1633A	11/22/25 10:16
Surrogate: M2-8:2 FTS	136 %		40-300	EPA 1633A	11/22/25 10:02
Surrogate: M2-8:2 FTS	165 %		40-300	EPA 1633A	11/22/25 10:16
Surrogate: M9PFNA	103 %		40-130	EPA 1633A	11/22/25 10:02
Surrogate: M9PFNA	104 %		40-130	EPA 1633A	11/22/25 10:16
Surrogate: M2-4:2 FTS	155 %		40-200	EPA 1633A	11/22/25 10:02
Surrogate: M2-4:2 FTS	165 %		40-200	EPA 1633A	11/22/25 10:16
Surrogate: d-N-MeFOSA	73.1 %		10-130	EPA 1633A	11/22/25 10:02
Surrogate: d-N-MeFOSA	91.4 %		10-130	EPA 1633A	11/22/25 10:16
Surrogate: d-N-EtFOSA	78.2 %		10-130	EPA 1633A	11/22/25 10:02
Surrogate: d-N-EtFOSA	78.1 %		10-130	EPA 1633A	11/22/25 10:16
Surrogate: M3HFPO-DA	133 %	PFSu-H	40-130	EPA 1633A	11/22/25 10:02
Surrogate: M3HFPO-DA	129 %		40-130	EPA 1633A	11/22/25 10:16
Surrogate: d9-N-EtFOSE	65.6 %		10-130	EPA 1633A	11/22/25 10:02
Surrogate: d9-N-EtFOSE	76.1 %		10-130	EPA 1633A	11/22/25 10:16
Surrogate: d7-N-MeFOSE	74.9 %		10-130	EPA 1633A	11/22/25 10:02
Surrogate: d7-N-MeFOSE	89.0 %		10-130	EPA 1633A	11/22/25 10:16

Client: Terracon Consultants, Inc.

Client Project: J2257015, Task 7

Client Sample ID: TS OF-7 GAC1

York Sample ID: 25K0570-02

Date Received: 11/11/2025

Collection Date/Time: 11/11/25 12:09

Lab ID: 25K0570-02

Laboratory: Queens



Client: Terracon Consultants, Inc.

York Sample ID: 25K0570-02

Client Project: J2257015, Task 7

Date Received: 11/11/2025

Client Sample ID: TS OF-7 GAC1

Collection Date/Time: 11/11/25 12:09

Lab ID: 25K0570-02

Laboratory: Queens

Analysis: PFAS Target compounds by LC/MS-MS

Matrix: Other

Prep Method: Sample Prepared by Method: EPA 1633 Prep

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	7.92	J PF-LCS-L	1.61	1.78	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
Perfluorohexanoic acid (PFHxA)	62.2		0.504	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
Perfluoroheptanoic acid (PFHpA)	35.1		0.706	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
Perfluorohexanesulfonic acid (PFHxS)	127		0.897	1.84	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
Perfluorooctanoic acid (PFOA)	71.2		1.01	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
Perfluorooctanesulfonic acid (PFOS)	299		0.766	1.88	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
Perfluorononanoic acid (PFNA)	25.3		0.998	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
Perfluorodecanoic acid (PFDA)	0.824		0.575	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
Perfluoroundecanoic acid (PFUnA)	6.16		0.716	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
Perfluorododecanoic acid (PFDoA)	ND		0.605	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
Perfluorotridecanoic acid (PFTriDA)	ND		1.21	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
Perfluorotetradecanoic acid (PFTA)	ND		1.59	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
N-MeFOSAA	ND		0.504	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
N-EtFOSAA	ND		5.04	5.04	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
Perfluoropentanoic acid (PFPeA)	118		0.897	4.03	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
Perfluoro-1-octanesulfonamide (FOSA)	ND		0.373	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.60		0.312	1.93	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.625	1.95	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	25.2		5.04	7.66	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		2.27	7.74	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
Perfluoro-n-butanoic acid (PFBA)	49.8		1.64	8.06	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		0.504	3.59	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND	PF-LCS-L	3.02	4.03	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND		0.706	4.03	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
Perfluoro-5-oxahexanoic acid (PFMBA)	ND		1.41	4.03	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
Perfluoro-1-pentanesulfonate (PFPeS)	10.3		0.756	1.90	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		2.84	7.56	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
HFPO-DA (Gen-X)	ND		5.04	8.06	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
11CL-PF3OUdS	ND		2.25	7.62	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
9CL-PF3ONS	ND		2.77	7.54	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
ADONA	ND		2.99	7.62	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
Perfluorododecanesulfonic acid (PFDoS)	ND		0.897	1.96	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM



Client: Terracon Consultants, Inc.

Client Project: J2257015, Task 7

Client Sample ID: TS OF-7 GAC1

York Sample ID: 25K0570-02

Date Received: 11/11/2025

Collection Date/Time: 11/11/25 12:09

Lab ID: 25K0570-02

Laboratory: Queens

Analysis: PFAS Target compounds by LC/MS-MS

Matrix: Other

Prep Method: Sample Prepared by Method: EPA 1633 Prep

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.756	1.94	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3FTCA)	ND		2.38	10.1	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	ND		25.2	50.4	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
2H,2H,3H,3H-Perfluorodecanoic acid (7:3FTCA)	ND		23.3	50.4	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
N-MeFOSE	ND		7.16	20.2	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
N-MeFOSA	ND		2.02	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
N-EtFOSE	ND		7.34	20.2	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM
N-EtFOSA	ND		1.06	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:25	AM

Surrogate Recoveries	Result	Flag	Acceptance Range	Reference Method	Analyzed
Surrogate: M3PFBS	138 %	PFSu-H	40-135	EPA 1633A	11/15/25 20:25
Surrogate: M5PFHxA	129 %		40-130	EPA 1633A	11/15/25 20:25
Surrogate: M4PFHpA	118 %		40-130	EPA 1633A	11/15/25 20:25
Surrogate: M3PFHxS	137 %	PFSu-H	40-130	EPA 1633A	11/15/25 20:25
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	127 %		40-130	EPA 1633A	11/15/25 20:25
Surrogate: M6PFDA	113 %		40-130	EPA 1633A	11/15/25 20:25
Surrogate: M7PFUdA	93.5 %		30-130	EPA 1633A	11/15/25 20:25
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	89.4 %		10-130	EPA 1633A	11/15/25 20:25
Surrogate: M2PFTeDA	74.2 %		10-130	EPA 1633A	11/15/25 20:25
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	109 %		5-130	EPA 1633A	11/15/25 20:25
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	110 %		40-130	EPA 1633A	11/15/25 20:25
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	136 %	PFSu-H	40-130	EPA 1633A	11/15/25 20:25
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	132 %	PFSu-H	40-130	EPA 1633A	11/15/25 20:25
Surrogate: d3-N-MeFOSAA	104 %		40-170	EPA 1633A	11/15/25 20:25
Surrogate: d5-N-EtFOSAA	103 %		25-135	EPA 1633A	11/15/25 20:25
Surrogate: M2-6:2 FTS	199 %		40-200	EPA 1633A	11/15/25 20:25
Surrogate: M2-8:2 FTS	177 %		40-300	EPA 1633A	11/15/25 20:25
Surrogate: M9PFNA	126 %		40-130	EPA 1633A	11/15/25 20:25
Surrogate: M2-4:2 FTS	229 %	PFSu-H	40-200	EPA 1633A	11/15/25 20:25
Surrogate: d-N-MeFOSA	84.0 %		10-130	EPA 1633A	11/15/25 20:25
Surrogate: d-N-EtFOSA	85.7 %		10-130	EPA 1633A	11/15/25 20:25
Surrogate: M3HFPO-DA	130 %	PFSu-H	40-130	EPA 1633A	11/15/25 20:25
Surrogate: d9-N-EtFOSE	77.0 %		10-130	EPA 1633A	11/15/25 20:25
Surrogate: d7-N-MeFOSE	86.5 %		10-130	EPA 1633A	11/15/25 20:25



Client: Terracon Consultants, Inc.

Client Project: J2257015, Task 7

Client Sample ID: TS OF-7 GAC1

York Sample ID: 25K0570-02

Date Received: 11/11/2025

Collection Date/Time: 11/11/25 12:09

Client: Terracon Consultants, Inc.

Client Project: J2257015, Task 7

Client Sample ID: TS OF-7 GAC2

York Sample ID: 25K0570-03

Date Received: 11/11/2025

Collection Date/Time: 11/11/25 12:14

Lab ID: 25K0570-03

Analysis: PFAS Target compounds by LC/MS-MS

Prep Method: Sample Prepared by Method: EPA 1633 Prep

Laboratory: Queens

Matrix: Other

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	PF-LCS-L	1.67	1.85	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
Perfluorohexanoic acid (PFHxA)	ND		0.523	2.09	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
Perfluoroheptanoic acid (PFHpA)	ND		0.732	2.09	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
Perfluorohexanesulfonic acid (PFHxS)	ND		0.931	1.91	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
Perfluorooctanoic acid (PFOA)	ND		1.05	2.09	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
Perfluorooctanesulfonic acid (PFOS)	ND		0.795	1.95	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
Perfluorononanoic acid (PFNA)	ND		1.04	2.09	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
Perfluorodecanoic acid (PFDA)	ND		0.596	2.09	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
Perfluoroundecanoic acid (PFUnA)	ND		0.743	2.09	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
Perfluorododecanoic acid (PFDoA)	ND		0.628	2.09	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
Perfluorotridecanoic acid (PFTTrDA)	ND		1.26	2.09	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
Perfluorotetradecanoic acid (PFTA)	ND		1.65	2.09	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
N-MeFOSAA	ND		0.523	2.09	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
N-EtFOSAA	ND		5.23	5.23	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
Perfluoropentanoic acid (PFPeA)	ND		0.931	4.18	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
Perfluoro-1-octanesulfonamide (FOSA)	ND		0.387	2.09	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.324	2.00	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.649	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		5.23	7.95	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		2.35	8.03	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
Perfluoro-n-butanoic acid (PFBA)	ND		1.71	8.37	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND		0.523	3.72	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND		3.14	4.18	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND		0.732	4.18	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
Perfluoro-5-oxahexanoic acid (PFMBA)	ND		1.46	4.18	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM



Client: Terracon Consultants, Inc.

York Sample ID: 25K0570-03

Client Project: J2257015, Task 7

Date Received: 11/11/2025

Client Sample ID: TS OF-7 GAC2

Collection Date/Time: 11/11/25 12:14

Lab ID: 25K0570-03

Laboratory: Queens

Analysis: PFAS Target compounds by LC/MS-MS

Matrix: Other

Prep Method: Sample Prepared by Method: EPA 1633 Prep

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
Perfluoro-1-pentanesulfonate (PFPeS)	ND	PF-LCS-L	0.785	1.97	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		2.95	7.85	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
HFPO-DA (Gen-X)	ND		5.23	8.37	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
11CL-PF3OUdS	ND		2.33	7.91	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
9CL-PF3ONS	ND		2.88	7.82	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
ADONA	ND		3.11	7.91	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
Perfluorododecanesulfonic acid (PFDoS)	ND		0.931	2.03	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.785	2.01	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3FTCA)	ND		2.47	10.5	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	ND		26.2	52.3	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
2H,2H,3H,3H-Perfluorodecanoic acid (7:3FTCA)	ND		24.1	52.3	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
N-MeFOSE	ND		7.43	20.9	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
N-MeFOSA	ND		2.09	2.09	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
N-EtFOSE	ND		7.62	20.9	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM
N-EtFOSA	ND		1.10	2.09	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:39	AM

Surrogate Recoveries	Result	Flag	Acceptance Range	Reference Method	Analyzed
Surrogate: M3PFBS	127 %	PFSu-H	40-135	EPA 1633A	11/15/25 20:39
Surrogate: M5PFHxA	126 %		40-130	EPA 1633A	11/15/25 20:39
Surrogate: M4PFHpA	113 %		40-130	EPA 1633A	11/15/25 20:39
Surrogate: M3PFHxS	134 %		40-130	EPA 1633A	11/15/25 20:39
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	124 %		40-130	EPA 1633A	11/15/25 20:39
Surrogate: M6PFDA	106 %		40-130	EPA 1633A	11/15/25 20:39
Surrogate: M7PFUdA	90.7 %		30-130	EPA 1633A	11/15/25 20:39
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	85.9 %		10-130	EPA 1633A	11/15/25 20:39
Surrogate: M2PFTeDA	72.8 %		10-130	EPA 1633A	11/15/25 20:39
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	120 %		5-130	EPA 1633A	11/15/25 20:39
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	111 %		40-130	EPA 1633A	11/15/25 20:39
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	129 %		40-130	EPA 1633A	11/15/25 20:39
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	119 %		40-130	EPA 1633A	11/15/25 20:39
Surrogate: d3-N-MeFOSAA	98.3 %		40-170	EPA 1633A	11/15/25 20:39
Surrogate: d5-N-EtFOSAA	85.5 %		25-135	EPA 1633A	11/15/25 20:39
Surrogate: M2-6:2 FTS	182 %		40-200	EPA 1633A	11/15/25 20:39



Client: Terracon Consultants, Inc.

Client Project: J2257015, Task 7

Client Sample ID: TS OF-7 GAC2

York Sample ID: 25K0570-03

Date Received: 11/11/2025

Collection Date/Time: 11/11/25 12:14

Lab ID: 25K0570-03

Analysis: PFAS Target compounds by LC/MS-MS

Prep Method: Sample Prepared by Method: EPA 1633 Prep

Laboratory: Queens

Matrix: Other

Surrogate Recoveries	Result	Flag	Acceptance Range	Reference Method	Analyzed
Surrogate: M2-8:2 FTS	153 %		40-300	EPA 1633A	11/15/25 20:39
Surrogate: M9PFNA	123 %		40-130	EPA 1633A	11/15/25 20:39
Surrogate: M2-4:2 FTS	205 %	PFSu-H	40-200	EPA 1633A	11/15/25 20:39
Surrogate: d-N-MeFOSA	74.0 %		10-130	EPA 1633A	11/15/25 20:39
Surrogate: d-N-EtFOSA	75.5 %		10-130	EPA 1633A	11/15/25 20:39
Surrogate: M3HFPO-DA	128 %		40-130	EPA 1633A	11/15/25 20:39
Surrogate: d9-N-EtFOSE	73.4 %		10-130	EPA 1633A	11/15/25 20:39
Surrogate: d7-N-MeFOSE	82.2 %		10-130	EPA 1633A	11/15/25 20:39

Client: Terracon Consultants, Inc.

Client Project: J2257015, Task 7

Client Sample ID: TS OF-7 GAC3

York Sample ID: 25K0570-04

Date Received: 11/11/2025

Collection Date/Time: 11/11/25 12:17

Lab ID: 25K0570-04

Analysis: PFAS Target compounds by LC/MS-MS

Prep Method: Sample Prepared by Method: EPA 1633 Prep

Laboratory: Queens

Matrix: Other

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND		1.66	1.84	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
Perfluorohexanoic acid (PFHxA)	ND		0.520	2.08	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
Perfluoroheptanoic acid (PFHpA)	ND		0.728	2.08	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
Perfluorohexanesulfonic acid (PFHxS)	ND		0.925	1.90	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
Perfluorooctanoic acid (PFOA)	ND		1.04	2.08	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
Perfluorooctanesulfonic acid (PFOS)	ND		0.790	1.93	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
Perfluorononanoic acid (PFNA)	ND		1.03	2.08	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
Perfluorodecanoic acid (PFDA)	ND		0.593	2.08	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
Perfluoroundecanoic acid (PFUnA)	ND		0.738	2.08	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
Perfluorododecanoic acid (PFDoA)	ND	PF-LCS-L	0.624	2.08	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
Perfluorotridecanoic acid (PFTriDA)	ND		1.25	2.08	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
Perfluorotetradecanoic acid (PFTA)	ND		1.64	2.08	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
N-MeFOSAA	ND		0.520	2.08	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
N-EtFOSAA	ND		5.20	5.20	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
Perfluoropentanoic acid (PFPeA)	ND		0.925	4.16	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
Perfluoro-1-octanesulfonamide (FOSA)	ND		0.385	2.08	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.322	1.99	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM



Client: Terracon Consultants, Inc.

York Sample ID: 25K0570-04

Client Project: J2257015, Task 7

Date Received: 11/11/2025

Client Sample ID: TS OF-7 GAC3

Collection Date/Time: 11/11/25 12:17

Lab ID: 25K0570-04

Laboratory: Queens

Analysis: PFAS Target compounds by LC/MS-MS

Matrix: Other

Prep Method: Sample Prepared by Method: EPA 1633 Prep

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
Perfluoro-1-decanesulfonic acid (PFDS)	ND	PF-LCS-L	0.644	2.01	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		5.20	7.90	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		2.34	7.98	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
Perfluoro-n-butanoic acid (PFBA)	ND		1.69	8.32	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND		0.520	3.70	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND		3.12	4.16	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND		0.728	4.16	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
Perfluoro-5-oxahexanoic acid (PFMBA)	ND		1.46	4.16	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
Perfluoro-1-pentanesulfonate (PFPeS)	ND		0.780	1.95	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		2.93	7.80	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
HFPO-DA (Gen-X)	ND		5.20	8.32	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
11CL-PF3OUdS	ND		2.32	7.86	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
9CL-PF3ONS	ND		2.86	7.78	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
ADONA	ND		3.09	7.86	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
Perfluorododecanesulfonic acid (PFDoS)	ND		0.925	2.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.780	2.00	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3FTCA)	ND		2.45	10.4	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	ND		26.0	52.0	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
2H,2H,3H,3H-Perfluorodecanoic acid (7:3FTCA)	ND		24.0	52.0	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
N-MeFOSE	ND		7.38	20.8	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
N-MeFOSA	ND		2.08	2.08	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
N-EtFOSE	ND		7.57	20.8	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM
N-EtFOSA	ND		1.09	2.08	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 20:53	AM

Surrogate Recoveries	Result	Flag	Acceptance Range	Reference Method	Analyzed
Surrogate: M3PFBS	117 %	PFSu-H	40-135	EPA 1633A	11/15/25 20:53
Surrogate: M5PFHxA	131 %		40-130	EPA 1633A	11/15/25 20:53
Surrogate: M4PFHpA	115 %		40-130	EPA 1633A	11/15/25 20:53
Surrogate: M3PFHxS	120 %		40-130	EPA 1633A	11/15/25 20:53
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	129 %		40-130	EPA 1633A	11/15/25 20:53
Surrogate: M6PFDA	111 %		40-130	EPA 1633A	11/15/25 20:53
Surrogate: M7PFUdA	89.0 %		30-130	EPA 1633A	11/15/25 20:53



Client: Terracon Consultants, Inc.

York Sample ID: 25K0570-04

Client Project: J2257015, Task 7

Date Received: 11/11/2025

Client Sample ID: TS OF-7 GAC3

Collection Date/Time: 11/11/25 12:17

Lab ID: 25K0570-04

Laboratory: Queens

Analysis: PFAS Target compounds by LC/MS-MS

Matrix: Other

Prep Method: Sample Prepared by Method: EPA 1633 Prep

Surrogate Recoveries	Result	Flag	Acceptance Range	Reference Method	Analyzed
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	80.8 %		10-130	EPA 1633A	11/15/25 20:53
Surrogate: M2PFTeDA	71.8 %		10-130	EPA 1633A	11/15/25 20:53
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	122 %		5-130	EPA 1633A	11/15/25 20:53
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	108 %		40-130	EPA 1633A	11/15/25 20:53
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	130 %	PFSu-H	40-130	EPA 1633A	11/15/25 20:53
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	128 %		40-130	EPA 1633A	11/15/25 20:53
Surrogate: d3-N-MeFOSAA	98.6 %		40-170	EPA 1633A	11/15/25 20:53
Surrogate: d5-N-EtFOSAA	89.2 %		25-135	EPA 1633A	11/15/25 20:53
Surrogate: M2-6:2 FTS	174 %		40-200	EPA 1633A	11/15/25 20:53
Surrogate: M2-8:2 FTS	155 %		40-300	EPA 1633A	11/15/25 20:53
Surrogate: M9PFNA	119 %		40-130	EPA 1633A	11/15/25 20:53
Surrogate: M2-4:2 FTS	195 %		40-200	EPA 1633A	11/15/25 20:53
Surrogate: d-N-MeFOSA	71.9 %		10-130	EPA 1633A	11/15/25 20:53
Surrogate: d-N-EtFOSA	78.1 %		10-130	EPA 1633A	11/15/25 20:53
Surrogate: M3HFPO-DA	124 %		40-130	EPA 1633A	11/15/25 20:53
Surrogate: d9-N-EtFOSE	75.2 %		10-130	EPA 1633A	11/15/25 20:53
Surrogate: d7-N-MeFOSE	83.4 %		10-130	EPA 1633A	11/15/25 20:53

Client: Terracon Consultants, Inc.

York Sample ID: 25K0570-05

Client Project: J2257015, Task 7

Date Received: 11/11/2025

Client Sample ID: TS OF-7 EFF

Collection Date/Time: 11/11/25 12:21

Lab ID: 25K0570-05

Laboratory: Queens

Analysis: PFAS Target compounds by LC/MS-MS

Matrix: Other

Prep Method: Sample Prepared by Method: EPA 1633 Prep

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND		1.64	1.82	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
Perfluorohexanoic acid (PFHxA)	ND		0.513	2.05	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
Perfluoroheptanoic acid (PFHpA)	ND		0.719	2.05	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
Perfluorohexanesulfonic acid (PFHxS)	ND		0.914	1.88	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
Perfluorooctanoic acid (PFOA)	ND		1.03	2.05	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM



Client: Terracon Consultants, Inc.

Client Project: J2257015, Task 7

Client Sample ID: TS OF-7 EFF

York Sample ID: 25K0570-05

Date Received: 11/11/2025

Collection Date/Time: 11/11/25 12:21

Lab ID: 25K0570-05

Analysis: PFAS Target compounds by LC/MS-MS

Prep Method: Sample Prepared by Method: EPA 1633 Prep

Laboratory: Queens

Matrix: Other

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
Perfluorooctanesulfonic acid (PFOS)	ND		0.780	1.91	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
Perfluorononanoic acid (PFNA)	ND		1.02	2.05	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
Perfluorodecanoic acid (PFDA)	ND		0.585	2.05	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
Perfluoroundecanoic acid (PFUnA)	ND		0.729	2.05	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
Perfluorododecanoic acid (PFDoA)	ND		0.616	2.05	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
Perfluorotridecanoic acid (PFTriDA)	ND		1.23	2.05	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
Perfluorotetradecanoic acid (PFTA)	ND		1.62	2.05	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
N-MeFOSAA	ND		0.513	2.05	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
N-EtFOSAA	ND		5.13	5.13	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
Perfluoropentanoic acid (PFPeA)	ND		0.914	4.11	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
Perfluoro-1-octanesulfonamide (FOSA)	ND		0.380	2.05	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.318	1.96	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.637	1.98	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		5.13	7.80	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		2.31	7.89	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
Perfluoro-n-butanoic acid (PFBA)	ND		1.67	8.21	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		0.513	3.66	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND		3.08	4.11	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND		0.719	4.11	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
Perfluoro-5-oxahexanoic acid (PFMBA)	ND		1.44	4.11	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
Perfluoro-1-pentanesulfonate (PFPeS)	ND		0.770	1.93	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		2.90	7.70	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
HFPO-DA (Gen-X)	ND		5.13	8.21	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
11CL-PF3OUdS	ND		2.29	7.76	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
9CL-PF3ONS	ND		2.82	7.68	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
ADONA	ND		3.05	7.76	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
Perfluorododecanesulfonic acid (PFDoS)	ND		0.914	1.99	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.770	1.97	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3FTCA)	ND		2.42	10.3	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	ND		25.7	51.3	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM



Client: Terracon Consultants, Inc.

York Sample ID: 25K0570-05

Client Project: J2257015, Task 7

Date Received: 11/11/2025

Client Sample ID: TS OF-7 EFF

Collection Date/Time: 11/11/25 12:21

Lab ID: 25K0570-05

Laboratory: Queens

Analysis: PFAS Target compounds by LC/MS-MS

Matrix: Other

Prep Method: Sample Prepared by Method: EPA 1633 Prep

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
2H,2H,3H,3H-Perfluorodecanoic acid (7:3FTCA)	ND		23.7	51.3	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
N-MeFOSE	ND		7.29	20.5	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
N-MeFOSA	ND		2.05	2.05	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
N-EtFOSE	ND		7.47	20.5	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM
N-EtFOSA	ND		1.08	2.05	1	ng/L	EPA 1633A	11/12/25 12:01	11/15/25 21:37	AM

Surrogate Recoveries

Result

Flag

Acceptance Range

Reference Method

Analyzed

Surrogate: M3PFBS	119 %		40-135	EPA 1633A	11/15/25 21:37
Surrogate: M5PFHxA	116 %		40-130	EPA 1633A	11/15/25 21:37
Surrogate: M4PFHpA	109 %		40-130	EPA 1633A	11/15/25 21:37
Surrogate: M3PFHxS	114 %		40-130	EPA 1633A	11/15/25 21:37
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	111 %		40-130	EPA 1633A	11/15/25 21:37
Surrogate: M6PFDA	91.2 %		40-130	EPA 1633A	11/15/25 21:37
Surrogate: M7PFUdA	72.4 %		30-130	EPA 1633A	11/15/25 21:37
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	59.0 %		10-130	EPA 1633A	11/15/25 21:37
Surrogate: M2PFTeDA	34.9 %		10-130	EPA 1633A	11/15/25 21:37
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	111 %		5-130	EPA 1633A	11/15/25 21:37
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	93.7 %		40-130	EPA 1633A	11/15/25 21:37
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	119 %		40-130	EPA 1633A	11/15/25 21:37
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	110 %		40-130	EPA 1633A	11/15/25 21:37
Surrogate: d3-N-MeFOSAA	82.7 %		40-170	EPA 1633A	11/15/25 21:37
Surrogate: d5-N-EtFOSAA	63.7 %		25-135	EPA 1633A	11/15/25 21:37
Surrogate: M2-6:2 FTS	163 %		40-200	EPA 1633A	11/15/25 21:37
Surrogate: M2-8:2 FTS	137 %		40-300	EPA 1633A	11/15/25 21:37
Surrogate: M9PFNA	102 %		40-130	EPA 1633A	11/15/25 21:37
Surrogate: M2-4:2 FTS	192 %		40-200	EPA 1633A	11/15/25 21:37
Surrogate: d-N-MeFOSA	69.5 %		10-130	EPA 1633A	11/15/25 21:37
Surrogate: d-N-EtFOSA	58.7 %		10-130	EPA 1633A	11/15/25 21:37
Surrogate: M3HFPO-DA	104 %		40-130	EPA 1633A	11/15/25 21:37
Surrogate: d9-N-EtFOSE	43.8 %		10-130	EPA 1633A	11/15/25 21:37
Surrogate: d7-N-MeFOSE	56.3 %		10-130	EPA 1633A	11/15/25 21:37



Client: Terracon Consultants, Inc.

York Sample ID: 25K0570-06

Client Project: J2257015, Task 7

Date Received: 11/11/2025

Client Sample ID: Trip Blank

Collection Date/Time: 11/11/25 12:21

Lab ID: 25K0570-06

Laboratory: Queens

Analysis: PFAS Target compounds by LC/MS-MS

Matrix: Water

Prep Method: Sample Prepared by Method: EPA 1633 Prep

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND		0.785	1.78	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
Perfluorohexanoic acid (PFHxA)	ND		0.362	2.01	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
Perfluoroheptanoic acid (PFHpA)	ND		0.704	2.01	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
Perfluorohexanesulfonic acid (PFHxS)	ND		0.895	1.84	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
Perfluorooctanoic acid (PFOA)	ND		0.795	2.01	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
Perfluorooctanesulfonic acid (PFOS)	ND		0.765	1.87	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
Perfluorononanoic acid (PFNA)	ND		0.996	2.01	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
Perfluorodecanoic acid (PFDA)	ND		0.573	2.01	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
Perfluoroundecanoic acid (PFUnA)	1.92	J	0.714	2.01	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
Perfluorododecanoic acid (PFDoA)	ND		0.604	2.01	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
Perfluorotridecanoic acid (PFTriDA)	ND		1.21	2.01	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
Perfluorotetradecanoic acid (PFTA)	ND		1.59	2.01	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
N-MeFOSAA	ND		0.503	2.01	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
N-EtFOSAA	ND		1.06	2.01	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
Perfluoropentanoic acid (PFPeA)	ND		0.895	4.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
Perfluoro-1-octanesulfonamide (FOSA)	ND		0.372	2.01	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.312	1.92	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
Perfluoro-1-decanesulfonic acid (PFDS)	0.937	J	0.624	1.94	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		2.33	7.65	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		2.26	7.73	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
Perfluoro-n-butanoic acid (PFBA)	ND		1.64	8.05	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		0.503	3.58	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND		3.02	4.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
Perfluoro-4-oxapentanoic acid (PFMPA)	ND		0.704	4.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
Perfluoro-5-oxahexanoic acid (PFMBA)	ND		1.41	4.02	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
Perfluoro-1-pentanesulfonate (PFPeS)	ND		0.755	1.89	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		2.84	7.55	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
HFPO-DA (Gen-X)	ND		3.16	8.05	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
11CL-PF3OUdS	ND		2.24	7.61	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
9CL-PF3ONS	ND		2.77	7.53	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
ADONA	ND		2.99	7.61	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
Perfluorododecanesulfonic acid (PFDoS)	ND		0.895	1.95	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG



Client: Terracon Consultants, Inc.

York Sample ID: 25K0570-06

Client Project: J2257015, Task 7

Date Received: 11/11/2025

Client Sample ID: Trip Blank

Collection Date/Time: 11/11/25 12:21

Lab ID: 25K0570-06

Laboratory: Queens

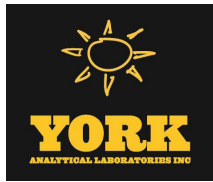
Analysis: PFAS Target compounds by LC/MS-MS

Matrix: Water

Prep Method: Sample Prepared by Method: EPA 1633 Prep

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.755	1.93	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3FTCA)	ND		2.37	10.1	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	ND		6.77	50.3	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
2H,2H,3H,3H-Perfluorodecanoic acid (7:3FTCA)	ND		23.2	50.3	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
N-MeFOSE	ND		7.14	20.1	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
N-MeFOSA	3.48		0.714	2.01	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
N-EtFOSE	ND		7.32	20.1	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG
N-EtFOSA	ND		1.06	2.01	1	ng/L	EPA 1633A	11/12/25 12:01	11/22/25 10:31	JBG

Surrogate Recoveries	Result	Flag	Acceptance Range	Reference Method	Analyzed
Surrogate: M3PFBS	118 %		40-135	EPA 1633A	11/22/25 10:31
Surrogate: M5PFHxA	111 %		40-130	EPA 1633A	11/22/25 10:31
Surrogate: M4PFHpA	104 %		40-130	EPA 1633A	11/22/25 10:31
Surrogate: M3PFHxS	111 %		40-130	EPA 1633A	11/22/25 10:31
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	112 %		40-130	EPA 1633A	11/22/25 10:31
Surrogate: M6PFDA	107 %		40-130	EPA 1633A	11/22/25 10:31
Surrogate: M7PFUDA	104 %		30-130	EPA 1633A	11/22/25 10:31
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	94.3 %		10-130	EPA 1633A	11/22/25 10:31
Surrogate: M2PFTeDA	92.6 %		10-130	EPA 1633A	11/22/25 10:31
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	112 %		5-130	EPA 1633A	11/22/25 10:31
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	114 %		40-130	EPA 1633A	11/22/25 10:31
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	111 %		40-130	EPA 1633A	11/22/25 10:31
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	99.5 %		40-130	EPA 1633A	11/22/25 10:31
Surrogate: d3-N-MeFOSAA	102 %		40-170	EPA 1633A	11/22/25 10:31
Surrogate: d5-N-EtFOSAA	108 %		25-135	EPA 1633A	11/22/25 10:31
Surrogate: M2-6:2 FTS	125 %		40-200	EPA 1633A	11/22/25 10:31
Surrogate: M2-8:2 FTS	118 %		40-300	EPA 1633A	11/22/25 10:31
Surrogate: M9PFNA	113 %		40-130	EPA 1633A	11/22/25 10:31
Surrogate: M2-4:2 FTS	121 %		40-200	EPA 1633A	11/22/25 10:31
Surrogate: d-N-MeFOSA	101 %		10-130	EPA 1633A	11/22/25 10:31
Surrogate: d-N-EtFOSA	95.7 %		10-130	EPA 1633A	11/22/25 10:31
Surrogate: M3HFPO-DA	131 %	PFSu-H	40-130	EPA 1633A	11/22/25 10:31
Surrogate: d9-N-EtFOSE	92.8 %		10-130	EPA 1633A	11/22/25 10:31
Surrogate: d7-N-MeFOSE	92.1 %		10-130	EPA 1633A	11/22/25 10:31



Client: Terracon Consultants, Inc.

Client Project: J2257015, Task 7

Client Sample ID: Trip Blank

York Sample ID: 25K0570-06

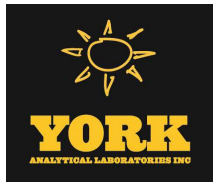
Date Received: 11/11/2025

Collection Date/Time: 11/11/25 12:21



Certified Analyses included in this Report

Analyte	CAS #	Certifications
<i>EPA 1633A in Water</i>		
11CL-PF3OUdS	763051-92-9	NYSDOH-NY12058
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	NYSDOH-NY12058
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	757124-72-4	NYSDOH-NY12058
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	27619-97-2	NYSDOH-NY12058
2H,2H,3H,3H-Perfluorodecanoic acid (7:3FTCA)	812-70-4	NYSDOH-NY12058
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	914637-49-3	NYSDOH-NY12058
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3FTCA)	356-02-5	NYSDOH-NY12058
9CL-PF3ONS	756426-58-1	NYSDOH-NY12058
ADONA	919005-14-4	NYSDOH-NY12058
HFPO-DA (Gen-X)	13252-13-6	NYSDOH-NY12058
N-EtFOSA	4151-50-2	NYSDOH-NY12058
N-EtFOSAA	2991-50-6	NYSDOH-NY12058
N-EtFOSE	1691-99-2	NYSDOH-NY12058
N-MeFOSA	31506-32-8	NYSDOH-NY12058
N-MeFOSAA	2355-31-9	NYSDOH-NY12058
N-MeFOSE	24448-09-7	NYSDOH-NY12058
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	113507-82-7	NYSDOH-NY12058
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	NYSDOH-NY12058
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	NYSDOH-NY12058
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	NYSDOH-NY12058
Perfluoro-1-octanesulfonamide (FOSA)	754-91-6	NYSDOH-NY12058
Perfluoro-1-pentanesulfonate (PFPeS)	2706-91-4	NYSDOH-NY12058
Perfluoro-3,6-dioxahheptanoic acid (NFDHA)	151772-58-6	NYSDOH-NY12058
Perfluoro-4-oxapentanoic acid (PFMPA)	377-73-1	NYSDOH-NY12058
Perfluoro-5-oxahexanoic acid (PFMBA)	863090-89-5	NYSDOH-NY12058
Perfluorobutanesulfonic acid (PFBS)	375-73-5	NYSDOH-NY12058
Perfluorodecanoic acid (PFDA)	335-76-2	NYSDOH-NY12058
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	NYSDOH-NY12058
Perfluorododecanoic acid (PFDoA)	307-55-1	NYSDOH-NY12058
Perfluoroheptanoic acid (PFHpA)	375-85-9	NYSDOH-NY12058
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	NYSDOH-NY12058
Perfluorohexanoic acid (PFHxA)	307-24-4	NYSDOH-NY12058
Perfluoro-n-butanoic acid (PFBA)	375-22-4	NYSDOH-NY12058
Perfluorononanoic acid (PFNA)	375-95-1	NYSDOH-NY12058
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	NYSDOH-NY12058
Perfluorooctanoic acid (PFOA)	335-67-1	NYSDOH-NY12058
Perfluoropentanoic acid (PFPeA)	2706-90-3	NYSDOH-NY12058
Perfluorotetradecanoic acid (PFTA)	376-06-7	NYSDOH-NY12058
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	NYSDOH-NY12058
Perfluoroundecanoic acid (PFUnA)	2058-94-8	NYSDOH-NY12058



List of Certifications

Code	Description	Number	Expires
NYSDOH-NY12058	NYSDOH NELAC/ELAP Program - Queens	NY ELAP-12058	04/01/2026



Analytical Batch Summary

Batch ID: BK50714		Preparation Method: EPA 1633 Prep	Prepared By: MG
YORK Sample ID	Client Sample ID	Preparation Date	
25K0570-01	TS OF-7 INF1	11/12/25	
25K0570-01RE1	TS OF-7 INF1	11/12/25	
25K0570-02	TS OF-7 GAC1	11/12/25	
25K0570-03	TS OF-7 GAC2	11/12/25	
25K0570-04	TS OF-7 GAC3	11/12/25	
25K0570-05	TS OF-7 EFF	11/12/25	
25K0570-06	Trip Blank	11/12/25	
BK50714-BLK1	Blank	11/12/25	
BK50714-BS1	LCS	11/12/25	
BK50714-BS2	LCS	11/12/25	
BK50714-DUP1	Duplicate	11/12/25	



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK50714 - EPA 1633 Prep											
Blank (BK50714-BLK1)											
						Prepared: 11/12/2025 Analyzed: 11/15/2025					
Perfluorobutanesulfonic acid (PFBS)	ND	1.77	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	ng/L								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	ng/L								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.83	ng/L								
Perfluorooctanoic acid (PFOA)	ND	2.00	ng/L								
Perfluorooctanesulfonic acid (PFOS)	ND	1.86	ng/L								
Perfluorononanoic acid (PFNA)	ND	2.00	ng/L								
Perfluorodecanoic acid (PFDA)	ND	2.00	ng/L								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	ng/L								
Perfluorododecanoic acid (PFDoA)	ND	2.00	ng/L								
Perfluorotridecanoic acid (PFTriDA)	ND	2.00	ng/L								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	ng/L								
N-MeFOSAA	ND	2.00	ng/L								
N-EtFOSAA	ND	5.00	ng/L								
Perfluoropentanoic acid (PFPeA)	ND	4.00	ng/L								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	ng/L								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.91	ng/L								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.93	ng/L								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	7.60	ng/L								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	7.68	ng/L								
Perfluoro-n-butanoic acid (PFBA)	ND	8.00	ng/L								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.56	ng/L								
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND	4.00	ng/L								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	4.00	ng/L								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	4.00	ng/L								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.88	ng/L								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	7.50	ng/L								
HFPO-DA (Gen-X)	ND	8.00	ng/L								
11CL-PF3OUdS	ND	7.56	ng/L								
9CL-PF3ONS	ND	7.48	ng/L								
ADONA	ND	7.56	ng/L								
Perfluorododecanesulfonic acid (PFDoS)	ND	1.94	ng/L								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.92	ng/L								
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3FTCA)	ND	10.0	ng/L								
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	ND	50.0	ng/L								
2H,2H,3H,3H-Perfluorodecanoic acid (7:3FTCA)	ND	50.0	ng/L								
N-MeFOSE	ND	20.0	ng/L								
N-MeFOSA	ND	2.00	ng/L								
N-EtFOSE	ND	20.0	ng/L								
N-EtFOSA	ND	2.00	ng/L								
Surrogate: M3PFBS	28.3		ng/L	23.3		121	40-135				
Surrogate: M5PFHxA	30.3		ng/L	25.0		121	40-130				
Surrogate: M4PFHpA	27.6		ng/L	25.0		111	40-130				
Surrogate: M3PFHxS	29.5		ng/L	23.7		124	40-130				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK50714 - EPA 1633 Prep											
Blank (BK50714-BLK1)											
Prepared: 11/12/2025 Analyzed: 11/15/2025											
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	30.5		ng/L	25.0		122	40-130				
Surrogate: M6PFDA	15.8		ng/L	12.5		127	40-130				
Surrogate: M7PFUdA	14.3		ng/L	12.5		114	30-130				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	13.9		ng/L	12.5		111	10-130				
Surrogate: M2PFTeDA	11.2		ng/L	12.5		89.8	10-130				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	126		ng/L	100		126	5-130				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	29.2		ng/L	24.0		122	40-130				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	61.7		ng/L	50.0		123	40-130				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	31.6		ng/L	25.0		126	40-130				
Surrogate: d3-N-MeFOSAA	59.0		ng/L	50.0		118	40-170				
Surrogate: d5-N-EtFOSAA	55.4		ng/L	50.0		111	25-135				
Surrogate: M2-6:2 FTS	80.8		ng/L	47.6		170	40-200				
Surrogate: M2-8:2 FTS	85.9		ng/L	48.0		179	40-300				
Surrogate: M9PFNA	14.4		ng/L	12.5		115	40-130				
Surrogate: M2-4:2 FTS	90.6		ng/L	46.9		193	40-200				
Surrogate: d-N-MeFOSA	25.1		ng/L	25.0		100	10-130				
Surrogate: d-N-EtFOSA	21.9		ng/L	25.0		87.7	10-130				
Surrogate: M3HFPO-DA	122		ng/L	100		122	40-130				
Surrogate: d9-N-EtFOSE	186		ng/L	250		74.5	10-130				
Surrogate: d7-N-MeFOSE	205		ng/L	250		82.1	10-130				
LCS (BK50714-BS1)											
Prepared: 11/12/2025 Analyzed: 11/15/2025											
Perfluorobutanesulfonic acid (PFBS)	38.3	1.77	ng/L	35.4		108	60-145				
Perfluorohexanoic acid (PFHxA)	43.6	2.00	ng/L	40.0		109	70-145				
Perfluoroheptanoic acid (PFHpA)	44.4	2.00	ng/L	40.0		111	70-150				
Perfluorohexanesulfonic acid (PFHxS)	39.7	1.83	ng/L	36.6		109	65-145				
Perfluorooctanoic acid (PFOA)	42.4	2.00	ng/L	40.0		106	70-150				
Perfluorooctanesulfonic acid (PFOS)	37.6	1.86	ng/L	37.2		101	55-150				
Perfluorononanoic acid (PFNA)	45.3	2.00	ng/L	40.0		113	70-150				
Perfluorodecanoic acid (PFDA)	46.3	2.00	ng/L	40.0		116	70-140				
Perfluoroundecanoic acid (PFUnA)	46.9	2.00	ng/L	40.0		117	70-145				
Perfluorododecanoic acid (PFDoA)	46.2	2.00	ng/L	40.0		116	70-140				
Perfluorotridecanoic acid (PFTrDA)	47.0	2.00	ng/L	40.0		118	65-140				
Perfluorotetradecanoic acid (PFTA)	45.7	2.00	ng/L	40.0		114	60-140				
N-MeFOSAA	50.4	2.00	ng/L	40.0		126	50-140				
N-EtFOSAA	48.8	5.00	ng/L	40.0		122	70-145				
Perfluoropentanoic acid (PFPeA)	86.2	4.00	ng/L	80.0		108	65-135				
Perfluoro-1-octanesulfonamide (FOSA)	44.2	2.00	ng/L	40.0		110	70-145				
Perfluoro-1-heptanesulfonic acid (PFHpS)	36.9	1.91	ng/L	38.2		96.6	70-150				
Perfluoro-1-decanesulfonic acid (PFDS)	39.5	1.93	ng/L	38.6		102	60-145				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	161	7.60	ng/L	152		106	65-155				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	171	7.68	ng/L	154		112	60-150				
Perfluoro-n-butanoic acid (PFBA)	170	8.00	ng/L	160		106	70-140				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	78.1	3.56	ng/L	71.2		110	70-140				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK50714 - EPA 1633 Prep											
LCS (BK50714-BS1)						Prepared: 11/12/2025 Analyzed: 11/15/2025					
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	74.9	4.00	ng/L	80.0		93.6	50-150	High Bias			
Perfluoro-4-oxapentanoic acid (PFMPA)	87.3	4.00	ng/L	80.0		109	55-140				
Perfluoro-5-oxahexanoic acid (PFMBA)	89.5	4.00	ng/L	80.0		112	60-150				
Perfluoro-1-pentanesulfonate (PFPeS)	41.5	1.88	ng/L	37.6		110	65-140				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	159	7.50	ng/L	150		106	70-145				
HFPO-DA (Gen-X)	81.2	8.00	ng/L	80.0		102	70-140				
11CL-PF3OUdS	86.7	7.56	ng/L	75.6		115	55-160				
9CL-PF3ONS	82.4	7.48	ng/L	74.8		110	70-155				
ADONA	88.6	7.56	ng/L	75.6		117	65-145				
Perfluorododecanesulfonic acid (PFDoS)	33.4	1.94	ng/L	38.8		86.0	50-145				
Perfluoro-1-nonanesulfonic acid (PFNS)	37.7	1.92	ng/L	38.4		98.1	65-145				
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3FTCA)	217	10.0	ng/L	160		136	65-130				
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	953	50.0	ng/L	800		119	70-135				
2H,2H,3H,3H-Perfluorodecanoic acid (7:3FTCA)	948	50.0	ng/L	800		118	50-145				
N-MeFOSE	452	20.0	ng/L	400		113	70-145				
N-MeFOSA	46.1	2.00	ng/L	40.0		115	60-150				
N-EtFOSE	492	20.0	ng/L	400		123	70-135				
N-EtFOSA	44.8	2.00	ng/L	40.0		112	65-145				
Surrogate: M3PFBS	28.8		ng/L	23.3		124	40-135				
Surrogate: M5PFHxA	29.4		ng/L	25.0		118	40-130				
Surrogate: M4PFHpA	28.5		ng/L	25.0		114	40-130				
Surrogate: M3PFHxS	29.4		ng/L	23.7		124	40-130				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	30.6		ng/L	25.0		122	40-130				
Surrogate: M6PFDA	14.2		ng/L	12.5		114	40-130				
Surrogate: M7PFUdA	13.2		ng/L	12.5		106	30-130				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	13.3		ng/L	12.5		106	10-130				
Surrogate: M2PFTeDA	10.8		ng/L	12.5		86.3	10-130				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	121		ng/L	100		121	5-130				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	30.0		ng/L	24.0		125	40-130				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	60.5		ng/L	50.0		121	40-130				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	29.6		ng/L	25.0		118	40-130				
Surrogate: d3-N-MeFOSAA	59.4		ng/L	50.0		119	40-170				
Surrogate: d5-N-EtFOSAA	52.3		ng/L	50.0		105	25-135				
Surrogate: M2-6:2 FTS	69.8		ng/L	47.6		147	40-200				
Surrogate: M2-8:2 FTS	71.9		ng/L	48.0		150	40-300				
Surrogate: M9PFNA	14.8		ng/L	12.5		118	40-130				
Surrogate: M2-4:2 FTS	74.3		ng/L	46.9		158	40-200				
Surrogate: d-N-MeFOSA	23.4		ng/L	25.0		93.7	10-130				
Surrogate: d-N-EtFOSA	23.0		ng/L	25.0		92.2	10-130				
Surrogate: M3HFPO-DA	116		ng/L	100		116	40-130				
Surrogate: d9-N-EtFOSE	208		ng/L	250		83.1	10-130				
Surrogate: d7-N-MeFOSE	225		ng/L	250		89.9	10-130				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK50714 - EPA 1633 Prep											
LCS (BK50714-BS2)						Prepared: 11/12/2025 Analyzed: 11/15/2025					
Perfluorobutanesulfonic acid (PFBS)	3.18	1.77	ng/L	3.54		89.9	60-145	Low Bias			
Perfluorohexanoic acid (PFHxA)	3.13	2.00	ng/L	4.00		78.3	70-145				
Perfluoroheptanoic acid (PFHpA)	3.41	2.00	ng/L	4.00		85.3	70-150				
Perfluorohexanesulfonic acid (PFHxS)	3.07	1.83	ng/L	3.66		84.0	65-145				
Perfluorooctanoic acid (PFOA)	2.94	2.00	ng/L	4.00		73.4	70-150				
Perfluorooctanesulfonic acid (PFOS)	4.02	1.86	ng/L	3.72		108	55-150				
Perfluorononanoic acid (PFNA)	3.11	2.00	ng/L	4.00		77.6	70-150				
Perfluorodecanoic acid (PFDA)	3.00	2.00	ng/L	4.00		75.1	70-140				
Perfluoroundecanoic acid (PFUnA)	3.17	2.00	ng/L	4.00		79.4	70-145				
Perfluorododecanoic acid (PFDoA)	2.77	2.00	ng/L	4.00		69.2	70-140				
Perfluorotridecanoic acid (PFTrDA)	3.43	2.00	ng/L	4.00		85.7	65-140	Low Bias			
Perfluorotetradecanoic acid (PFTA)	3.08	2.00	ng/L	4.00		77.1	60-140				
N-MeFOSAA	2.77	2.00	ng/L	4.00		69.2	50-140				
N-EtFOSAA	3.55	5.00	ng/L	4.00		88.9	70-145				
Perfluoropentanoic acid (PFPeA)	6.59	4.00	ng/L	8.00		82.3	65-135				
Perfluoro-1-octanesulfonamide (FOSA)	3.24	2.00	ng/L	4.00		81.1	70-145				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.06	1.91	ng/L	3.82		80.0	70-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.19	1.93	ng/L	3.86		82.6	60-145				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	12.4	7.60	ng/L	15.2		81.9	65-155				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	10.8	7.68	ng/L	15.4		70.4	60-150				
Perfluoro-n-butanoic acid (PFBA)	13.6	8.00	ng/L	16.0		85.0	70-140	Low Bias			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	5.96	3.56	ng/L	7.12		83.8	70-140				
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	7.99	4.00	ng/L	8.00		99.9	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	7.36	4.00	ng/L	8.00		92.0	55-140				
Perfluoro-5-oxahexanoic acid (PFMBA)	7.71	4.00	ng/L	8.00		96.4	60-150				
Perfluoro-1-pentanesulfonate (PFPeS)	2.77	1.88	ng/L	3.76		73.7	65-140				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	12.2	7.50	ng/L	15.0		81.3	70-145				
HFPO-DA (Gen-X)	8.68	8.00	ng/L	8.00		109	70-140				
11CL-PF3OUdS	5.13	7.56	ng/L	7.56		67.9	55-160				
9CL-PF3ONS	4.69	7.48	ng/L	7.48		62.7	70-155				
ADONA	5.69	7.56	ng/L	7.56		75.3	65-145	Low Bias			
Perfluorododecanesulfonic acid (PFDoS)	2.58	1.94	ng/L	3.88		66.5	50-145				
Perfluoro-1-nonanesulfonic acid (PFNS)	2.70	1.92	ng/L	3.84		70.3	65-145				
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3FTCA)	19.5	10.0	ng/L	16.0		122	65-130				
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	87.9	50.0	ng/L	80.0		110	70-135				
2H,2H,3H,3H-Perfluorodecanoic acid (7:3FTCA)	80.6	50.0	ng/L	80.0		101	50-145				
N-MeFOSE	38.4	20.0	ng/L	40.0		96.0	70-145				
N-MeFOSA	4.00	2.00	ng/L	4.00		100	60-150				
N-EtFOSE	39.1	20.0	ng/L	40.0		97.7	70-135				
N-EtFOSA	3.82	2.00	ng/L	4.00		95.6	65-145				
Surrogate: M3PFBS	27.8		ng/L	23.3		119	40-135				
Surrogate: M5PFHxA	32.2		ng/L	25.0		129	40-130				
Surrogate: M4PFHpA	30.7		ng/L	25.0		123	40-130				
Surrogate: M3PFHxS	28.6		ng/L	23.7		121	40-130				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK50714 - EPA 1633 Prep											
LCS (BK50714-BS2)						Prepared: 11/12/2025 Analyzed: 11/15/2025					
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	32.0		ng/L	25.0		128	40-130				
Surrogate: M6PFDA	15.7		ng/L	12.5		126	40-130				
Surrogate: M7PFUdA	13.8		ng/L	12.5		110	30-130				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	14.0		ng/L	12.5		112	10-130				
Surrogate: M2PFTeDA	12.1		ng/L	12.5		96.8	10-130				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	125		ng/L	100		125	5-130				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	28.1		ng/L	24.0		117	40-130				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	64.7		ng/L	50.0		129	40-130				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	34.3		ng/L	25.0		137	40-130				
Surrogate: d3-N-MeFOSAA	65.6		ng/L	50.0		131	40-170				
Surrogate: d5-N-EtFOSAA	60.9		ng/L	50.0		122	25-135				
Surrogate: M2-6:2 FTS	81.2		ng/L	47.6		171	40-200				
Surrogate: M2-8:2 FTS	83.4		ng/L	48.0		174	40-300				
Surrogate: M9PFNA	14.4		ng/L	12.5		115	40-130				
Surrogate: M2-4:2 FTS	89.3		ng/L	46.9		190	40-200				
Surrogate: d-N-MeFOSA	26.7		ng/L	25.0		107	10-130				
Surrogate: d-N-EtFOSA	27.2		ng/L	25.0		109	10-130				
Surrogate: M3HFPO-DA	130		ng/L	100		130	40-130				
Surrogate: d9-N-EtFOSE	233		ng/L	250		93.3	10-130				
Surrogate: d7-N-MeFOSE	236		ng/L	250		94.2	10-130				
Duplicate (BK50714-DUP1)						*Source sample: 25K0570-06 (Trip Blank)					
						Prepared: 11/12/2025 Analyzed: 11/22/2025					
Perfluorobutanesulfonic acid (PFBS)	ND	1.82	ng/L		ND					30	
Perfluorohexanoic acid (PFHxA)	ND	2.06	ng/L		ND					30	
Perfluoroheptanoic acid (PFHpA)	ND	2.06	ng/L		ND					30	
Perfluorohexanesulfonic acid (PFHxS)	ND	1.88	ng/L		ND					30	
Perfluorooctanoic acid (PFOA)	ND	2.06	ng/L		ND					30	
Perfluorooctanesulfonic acid (PFOS)	ND	1.91	ng/L		ND					30	
Perfluorononanoic acid (PFNA)	ND	2.06	ng/L		ND					30	
Perfluorodecanoic acid (PFDA)	ND	2.06	ng/L		ND					30	
Perfluoroundecanoic acid (PFUnA)	ND	2.06	ng/L		1.92					30	
Perfluorododecanoic acid (PFDoA)	ND	2.06	ng/L		ND					30	
Perfluorotridecanoic acid (PFTrDA)	ND	2.06	ng/L		ND					30	
Perfluorotetradecanoic acid (PFTA)	ND	2.06	ng/L		ND					30	
N-MeFOSAA	ND	2.06	ng/L		ND					30	
N-EtFOSAA	ND	2.06	ng/L		ND					30	
Perfluoropentanoic acid (PFPeA)	ND	4.12	ng/L		ND					30	
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.06	ng/L		ND					30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.97	ng/L		ND					30	
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.99	ng/L		0.937					30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	7.82	ng/L		ND					30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	7.90	ng/L		ND					30	
Perfluoro-n-butanoic acid (PFBA)	ND	8.23	ng/L		ND					30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	ND	3.66	ng/L		ND					30	



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK50714 - EPA 1633 Prep											
Duplicate (BK50714-DUP1)		*Source sample: 25K0570-06 (Trip Blank)						Prepared: 11/12/2025 Analyzed: 11/22/2025			
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	4.12	ng/L		ND					30	
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	4.12	ng/L		ND					30	
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	4.12	ng/L		ND					30	
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.93	ng/L		ND					30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	7.72	ng/L		ND					30	
HFPO-DA (Gen-X)	ND	8.23	ng/L		ND					30	
11CL-PF3OUdS	ND	7.78	ng/L		ND					30	
9CL-PF3ONS	ND	7.70	ng/L		ND					30	
ADONA	ND	7.78	ng/L		ND					30	
Perfluorododecanesulfonic acid (PFDoS)	ND	2.00	ng/L		ND					30	
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.98	ng/L		ND					30	
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3FTCA)	ND	10.3	ng/L		ND					30	
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	ND	51.4	ng/L		ND					30	
2H,2H,3H,3H-Perfluorodecanoic acid (7:3FTCA)	ND	51.4	ng/L		ND					30	
N-MeFOSE	ND	20.6	ng/L		ND					30	
N-MeFOSA	ND	2.06	ng/L		3.48					30	
N-EtFOSE	ND	20.6	ng/L		ND					30	
N-EtFOSA	ND	2.06	ng/L		ND					30	
Surrogate: M3PFBS	30.0		ng/L	24.0		125	40-135				
Surrogate: M5PFHxA	28.0		ng/L	25.7		109	40-130				
Surrogate: M4PFHpA	25.5		ng/L	25.7		99.3	40-130				
Surrogate: M3PFHxS	27.7		ng/L	24.4		114	40-130				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	28.9		ng/L	25.7		112	40-130				
Surrogate: M6PFDA	15.8		ng/L	12.9		123	40-130				
Surrogate: M7PFUdA	15.3		ng/L	12.9		119	30-130				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	13.5		ng/L	12.9		105	10-130				
Surrogate: M2PFTeDA	12.8		ng/L	12.9		99.3	10-130				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	119		ng/L	103		115	5-130				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	29.8		ng/L	24.6		121	40-130				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	59.8		ng/L	51.4		116	40-130				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	25.1		ng/L	25.7		97.7	40-130				
Surrogate: d3-N-MeFOSAA	52.0		ng/L	51.4		101	40-170				
Surrogate: d5-N-EtFOSAA	55.1		ng/L	51.4		107	25-135				
Surrogate: M2-6:2 FTS	59.2		ng/L	48.9		121	40-200				
Surrogate: M2-8:2 FTS	57.0		ng/L	49.4		115	40-300				
Surrogate: M9PFNA	14.8		ng/L	12.9		115	40-130				
Surrogate: M2-4:2 FTS	55.8		ng/L	48.3		116	40-200				
Surrogate: d-N-MeFOSA	23.2		ng/L	25.7		90.2	10-130				
Surrogate: d-N-EtFOSA	23.4		ng/L	25.7		91.0	10-130				
Surrogate: M3HFPO-DA	139		ng/L	103		135	40-130				
Surrogate: d9-N-EtFOSE	225		ng/L	257		87.4	10-130				
Surrogate: d7-N-MeFOSE	228		ng/L	257		88.7	10-130				



Sample and Data Qualifiers Relating to This Work Order

PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-LCS-L	The LCS recovery for this PFAS compound was below control limits.
PF-LCS-H	The LCS recovery for this PFAS compound was above control limits.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
^	Analyte is not certified but the state of sample origination offer certification for the Analyte

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.



Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Corrective Action: Trip Blanks are not applicable to PFAS but the client elected to use an unopened FB bottle filled with DI to be used as a "trip blank" with custody seal.



USA
environmental

120 Research Drive Stratford, CT 06615

132-02 89th Ave Queens, NY 11418

56 Church Hill Rd. #2 Newtown, CT 06470

2161 Whitesville Rd Toms River, NJ 08755

clientservices@yorklab.com 800-306-YORK 800-306-9675

Field Chain-of-Custody Record

ALS' Standard Terms & Conditions are listed on the back side of this document. This legal document serves as your written authorization for ALS to proceed with the analyses requested below. Your signature binds you to ALS' Standard Terms & Conditions.

ALS Project Number

25K0570

Report To:

Company: Terracon

Address: Rocky Hill, CT

Phone: 860-721-1900

Contact: Don Pomeroy

E-mail: don.pomeroy@terracon.com

Invoice To:

Company: SAME

Address: Upbound to

Phone: Coupa

Contact: Coupa

E-mail: Coupa

YOUR Project Name / Number

J2257015, Task 7

PO Number

J2257015, Task 7

Preservative

(please list number of containers)

Matrix Codes

S - soil/solid/sludge

GW - groundwater

DW - drinking water

SW - surface water

WW - wastewater

O - Oil

Other

Samples Collected by: (print AND sign your name)

Sample Identification

TS OF-7 INF1

TS OF-7 GAC1

TS OF-7 GAC2

TS OF-7 GAC3

TS OF-7 EFF

Trip Blank

Date

11-11-25

Time

1207

SW

Z

Other

Z

Other

Z

Other

Z

Other

Z

Other

Z

Other

Z

Other

Z

Other

Z

Other

Z

Other

Z

Other

Z

Other

Z

Other

Z

Other

Z

Other

Z

Comments:

Only test one set of Trip Blanks, we received two in bottle order

1. Samples Relinquished by / Company

Date/Time 11-11-25/1337

2. Samples Relinquished by / Company

Date/Time

3. Samples Relinquished by / Company

Date/Time

4. Samples Relinquished by / Company

Date/Time

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N

Custody Seals: Y / N Containers Intact: Y / N COC/Labels Agree: Y / N Preservation Confirmed: Y / N

COC Complete: Y / N COC Received: Y / N Appropriate Sample Volumes: Y / N Appropriate Sample Containers: Y / N

Cooler Temperature Confirmed: Y / N Samples Submitted within Holding Times: Y / N Corrective Action Form Required: Y / N

1. Samples Relinquished by / Company

Date/Time

2. Samples Relinquished by / Company

Date/Time

3. Samples Relinquished by / Company

Date/Time

4. Samples Relinquished by / Company

Date/Time

Samples Received in LAB by

Date/Time 11-11-25 1337

Temperature 3.3 Degrees C

Turn-Around Time

RUSH - Next Day

RUSH - Two Day

RUSH - Three Day

RUSH - Four Day

RUSH - Five Day

Standard (6-9 Day)

PFAS Standard 7-10 Day

Report Type (circle)

QA Report

Summary (Results Only)

NY ASP B Package

NJ Reduced

NJ DKQP

NJ Full

CT RCP

Grab or Comp.

G/C

EDD Type (circle)

EQulS (standard)

NYSDEC EQulS

NJDEP SRP Haz Site

Standard Label

CMDP

Other:

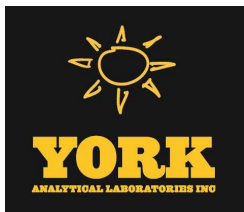
Regulatory Comparative

Compared to the following

Regulation(s): (please fill in)

Field Filtered

Lab Filtered



Technical Report

prepared for:

Terracon Consultants, Inc.

201 Hammer Mill Rd

Rocky Hill CT, 06067

Attention: Don Pomeroy

Report Date: 12/03/2025

Client Project ID: HPN Outfall OF-7 J2257015 Task 7

York Project (SDG) No.: 25K1236



Report Date: 12/03/2025
Client Project ID: HPN Outfall OF-7 J2257015 Task 7
York Project (SDG) No.: 25K1236

Terracon Consultants, Inc.
201 Hammer Mill Rd
Rocky Hill CT, 06067
Attention: Don Pomeroy

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 24, 2025 and listed below. The project was identified as your project: **HPN Outfall OF-7 J2257015 Task 7**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

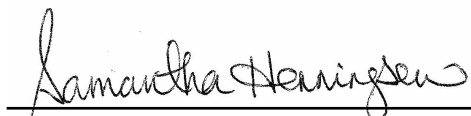
Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
25K1236-01	TS OF-7 EFF	Other	11/24/2025	11/24/2025
25K1236-02	TS OF-7 GAC 3	Other	11/24/2025	11/24/2025
25K1236-03	TS OF-7 GAC 2	Other	11/24/2025	11/24/2025
25K1236-04	TS OF-7 GAC 1	Other	11/24/2025	11/24/2025
25K1236-05	TS OF-7 INF	Surface Water	11/24/2025	11/24/2025

General Notes for York Project (SDG) No.: 25K1236

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NYDOH-NY10854, NJDEP-CT005, PADEP-68-04440, CTDPH-PH0840; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NYDOH-NY12058, NJDEP-NY037, CTDPH-PH0837, NHDES-NH2097, MDDEP-375, PADEP-68-06231.

Approved By:



Samantha Henningsen
Laboratory Director - Queens

Date: 12/03/2025



Client:	Terracon Consultants, Inc.	York Sample ID:	25K1236-01
Client Project:	HPN Outfall OF-7 J2257015 Task 7	Date Received:	11/24/2025
Client Sample ID:	TS OF-7 EFF	Collection Date/Time:	11/24/25 11:40

Lab ID:	25K1236-01					Laboratory:	Queens			
Analysis:	PFAS Target compounds by LC/MS-MS					Matrix:	Other			
Prep Method:	Sample Prepared by Method: EPA 1633 Prep									
Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND		0.828	1.88	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
Perfluorohexanoic acid (PFHxA)	ND		0.382	2.12	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
Perfluoroheptanoic acid (PFHpA)	ND		0.743	2.12	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
Perfluorohexanesulfonic acid (PFHxS)	ND		0.945	1.94	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
Perfluorooctanoic acid (PFOA)	ND		0.839	2.12	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
Perfluorooctanesulfonic acid (PFOS)	ND		0.807	1.97	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
Perfluorononanoic acid (PFNA)	ND		1.05	2.12	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
Perfluorodecanoic acid (PFDA)	ND		0.605	2.12	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
Perfluoroundecanoic acid (PFUnA)	ND		0.754	2.12	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
Perfluorododecanoic acid (PFDoA)	ND		0.637	2.12	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
Perfluorotridecanoic acid (PFTrDA)	ND		1.27	2.12	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
Perfluorotetradecanoic acid (PFTA)	ND		1.68	2.12	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
N-MeFOSAA	ND		0.531	2.12	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
N-EtFOSAA	ND		1.11	2.12	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
Perfluoropentanoic acid (PFPeA)	ND		0.945	4.25	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
Perfluoro-1-octanesulfonamide (FOSA)	ND		0.393	2.12	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.329	2.03	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.658	2.05	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		2.46	8.07	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		2.39	8.15	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
Perfluoro-n-butanoic acid (PFBA)	ND		1.73	8.49	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		0.531	3.78	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND		3.18	4.25	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND		0.743	4.25	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
Perfluoro-5-oxahexanoic acid (PFMBA)	ND		1.49	4.25	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
Perfluoro-1-pentanesulfonate (PFPeS)	ND		0.796	2.00	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		2.99	7.96	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
HFPO-DA (Gen-X)	ND		3.33	8.49	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
11CL-PF3OUdS	ND	PF-CCV-L	2.37	8.03	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM



Client: Terracon Consultants, Inc.

York Sample ID: 25K1236-01

Client Project: HPN Outfall OF-7 J2257015 Task 7

Date Received: 11/24/2025

Client Sample ID: TS OF-7 EFF

Collection Date/Time: 11/24/25 11:40

Lab ID: 25K1236-01

Laboratory: Queens

Analysis: PFAS Target compounds by LC/MS-MS

Matrix: Other

Prep Method: Sample Prepared by Method: EPA 1633 Prep

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
9CL-PF3ONS	ND	PF-CCV-L , PF-LCS-L	2.92	7.94	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
ADONA	ND		3.15	8.03	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
Perfluorododecanesulfonic acid (PFDoS)	ND		0.945	2.06	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.796	2.04	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3FTCA)	ND		2.51	10.6	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	ND		7.14	53.1	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
2H,2H,3H,3H-Perfluorodecanoic acid (7:3FTCA)	ND		24.5	53.1	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
N-MeFOSE	ND		7.54	21.2	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
N-MeFOSA	ND		0.754	2.12	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
N-EtFOSE	ND		7.73	21.2	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM
N-EtFOSA	ND		1.11	2.12	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:00	AM

Surrogate Recoveries	Result	Flag	Acceptance Range	Reference Method	Analyzed
Surrogate: M3PFBS	159 %	PFSu-H	40-135	EPA 1633A	11/27/25 12:00
Surrogate: M5PFHxA	129 %		40-130	EPA 1633A	11/27/25 12:00
Surrogate: M4PFHpA	121 %		40-130	EPA 1633A	11/27/25 12:00
Surrogate: M3PFHxS	140 %	PFSu-H	40-130	EPA 1633A	11/27/25 12:00
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	123 %		40-130	EPA 1633A	11/27/25 12:00
Surrogate: M6PFDA	123 %		40-130	EPA 1633A	11/27/25 12:00
Surrogate: M7PFUdA	113 %		30-130	EPA 1633A	11/27/25 12:00
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	102 %		10-130	EPA 1633A	11/27/25 12:00
Surrogate: M2PFTeDA	88.6 %		10-130	EPA 1633A	11/27/25 12:00
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	128 %		5-130	EPA 1633A	11/27/25 12:00
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	129 %		40-130	EPA 1633A	11/27/25 12:00
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	145 %	PFSu-H	40-130	EPA 1633A	11/27/25 12:00
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	147 %	PFSu-H	40-130	EPA 1633A	11/27/25 12:00
Surrogate: d3-N-MeFOSAA	117 %		40-170	EPA 1633A	11/27/25 12:00
Surrogate: d5-N-EtFOSAA	120 %		25-135	EPA 1633A	11/27/25 12:00
Surrogate: M2-6:2 FTS	113 %		40-200	EPA 1633A	11/27/25 12:00
Surrogate: M2-8:2 FTS	102 %		40-300	EPA 1633A	11/27/25 12:00
Surrogate: M9PFNA	125 %		40-130	EPA 1633A	11/27/25 12:00
Surrogate: M2-4:2 FTS	135 %		40-200	EPA 1633A	11/27/25 12:00



Client:	Terracon Consultants, Inc.	York Sample ID:	25K1236-01
Client Project:	HPN Outfall OF-7 J2257015 Task 7	Date Received:	11/24/2025
Client Sample ID:	TS OF-7 EFF	Collection Date/Time:	11/24/25 11:40

Lab ID:	25K1236-01	Laboratory:	Queens
Analysis:	PFAS Target compounds by LC/MS-MS	Matrix:	Other
Prep Method:	Sample Prepared by Method: EPA 1633 Prep		

Surrogate Recoveries	Result	Flag	Acceptance Range	Reference Method	Analyzed
Surrogate: d-N-MeFOSA	89.4 %		10-130	EPA 1633A	11/27/25 12:00
Surrogate: d-N-EtFOSA	80.1 %		10-130	EPA 1633A	11/27/25 12:00
Surrogate: M3HFPO-DA	141 %	PFSu-H	40-130	EPA 1633A	11/27/25 12:00
Surrogate: d9-N-EtFOSE	101 %		10-130	EPA 1633A	11/27/25 12:00
Surrogate: d7-N-MeFOSE	104 %		10-130	EPA 1633A	11/27/25 12:00

Client:	Terracon Consultants, Inc.	York Sample ID:	25K1236-02
Client Project:	HPN Outfall OF-7 J2257015 Task 7	Date Received:	11/24/2025
Client Sample ID:	TS OF-7 GAC 3	Collection Date/Time:	11/24/25 11:29

Lab ID:	25K1236-02	Laboratory:	Queens
Analysis:	PFAS Target compounds by LC/MS-MS	Matrix:	Other
Prep Method:	Sample Prepared by Method: EPA 1633 Prep		

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND		0.785	1.78	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
Perfluorohexanoic acid (PFHxA)	ND		0.362	2.01	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
Perfluoroheptanoic acid (PFHpA)	ND		0.704	2.01	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
Perfluorohexanesulfonic acid (PFHxS)	ND		0.895	1.84	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
Perfluorooctanoic acid (PFOA)	ND		0.795	2.01	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
Perfluorooctanesulfonic acid (PFOS)	ND		0.765	1.87	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
Perfluorononanoic acid (PFNA)	ND		0.996	2.01	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
Perfluorodecanoic acid (PFDA)	ND		0.573	2.01	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
Perfluoroundecanoic acid (PFUnA)	ND		0.714	2.01	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
Perfluorododecanoic acid (PFDoA)	ND		0.604	2.01	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
Perfluorotridecanoic acid (PFTTrDA)	ND		1.21	2.01	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
Perfluorotetradecanoic acid (PFTA)	ND		1.59	2.01	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
N-MeFOSAA	ND		0.503	2.01	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
N-EtFOSAA	ND		1.06	2.01	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
Perfluoropentanoic acid (PFPeA)	ND		0.895	4.02	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
Perfluoro-1-octanesulfonamide (FOSA)	ND		0.372	2.01	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.312	1.92	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.624	1.94	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		2.33	7.65	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM



Client: Terracon Consultants, Inc.

York Sample ID: 25K1236-02

Client Project: HPN Outfall OF-7 J2257015 Task 7

Date Received: 11/24/2025

Client Sample ID: TS OF-7 GAC 3

Collection Date/Time: 11/24/25 11:29

Lab ID: 25K1236-02

Laboratory: Queens

Analysis: PFAS Target compounds by LC/MS-MS

Matrix: Other

Prep Method: Sample Prepared by Method: EPA 1633 Prep

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		2.26	7.73	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
Perfluoro-n-butanoic acid (PFBA)	ND		1.64	8.05	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND		0.503	3.58	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND		3.02	4.02	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND		0.704	4.02	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
Perfluoro-5-oxahexanoic acid (PFMBA)	ND		1.41	4.02	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
Perfluoro-1-pentanesulfonate (PFPeS)	ND		0.755	1.89	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		2.84	7.55	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
HFPO-DA (Gen-X)	ND		3.16	8.05	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
11CL-PF3OUdS	ND	PF-CCV-L	2.24	7.61	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
9CL-PF3ONS	ND	PF-CCV-L	2.77	7.53	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
		PF-LCS-L								
ADONA	ND		2.99	7.61	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
Perfluorododecanesulfonic acid (PFDoS)	ND		0.895	1.95	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.755	1.93	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3FTCA)	ND		2.37	10.1	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	ND		6.77	50.3	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
2H,2H,3H,3H-Perfluorodecanoic acid (7:3FTCA)	ND		23.2	50.3	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
N-MeFOSE	ND		7.14	20.1	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
N-MeFOSA	ND		0.714	2.01	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
N-EtFOSE	ND		7.32	20.1	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM
N-EtFOSA	ND		1.06	2.01	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:14	AM

Surrogate Recoveries	Result	Flag	Acceptance Range	Reference Method	Analyzed
Surrogate: M3PFBS	147 %	PFSu-H	40-135	EPA 1633A	11/27/25 12:14
Surrogate: M5PFHxA	122 %		40-130	EPA 1633A	11/27/25 12:14
Surrogate: M4PFHpA	107 %		40-130	EPA 1633A	11/27/25 12:14
Surrogate: M3PFHxS	129 %		40-130	EPA 1633A	11/27/25 12:14
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	116 %		40-130	EPA 1633A	11/27/25 12:14
Surrogate: M6PFDA	108 %		40-130	EPA 1633A	11/27/25 12:14
Surrogate: M7PFUdA	94.3 %		30-130	EPA 1633A	11/27/25 12:14
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	90.3 %		10-130	EPA 1633A	11/27/25 12:14



Client:	Terracon Consultants, Inc.	York Sample ID:	25K1236-02
Client Project:	HPN Outfall OF-7 J2257015 Task 7	Date Received:	11/24/2025
Client Sample ID:	TS OF-7 GAC 3	Collection Date/Time:	11/24/25 11:29

Lab ID:	25K1236-02	Laboratory:	Queens
Analysis:	PFAS Target compounds by LC/MS-MS	Matrix:	Other
Prep Method:	Sample Prepared by Method: EPA 1633 Prep		

Surrogate Recoveries	Result	Flag	Acceptance Range	Reference Method	Analyzed
Surrogate: M2PFTeDA	81.5 %		10-130	EPA 1633A	11/27/25 12:14
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	121 %		5-130	EPA 1633A	11/27/25 12:14
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	107 %		40-130	EPA 1633A	11/27/25 12:14
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	135 %	PFSu-H	40-130	EPA 1633A	11/27/25 12:14
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	120 %		40-130	EPA 1633A	11/27/25 12:14
Surrogate: d3-N-MeFOSAA	90.4 %		40-170	EPA 1633A	11/27/25 12:14
Surrogate: d5-N-EtFOSAA	105 %		25-135	EPA 1633A	11/27/25 12:14
Surrogate: M2-6:2 FTS	98.0 %		40-200	EPA 1633A	11/27/25 12:14
Surrogate: M2-8:2 FTS	92.0 %		40-300	EPA 1633A	11/27/25 12:14
Surrogate: M9PFNA	116 %		40-130	EPA 1633A	11/27/25 12:14
Surrogate: M2-4:2 FTS	119 %		40-200	EPA 1633A	11/27/25 12:14
Surrogate: d-N-MeFOSA	63.7 %		10-130	EPA 1633A	11/27/25 12:14
Surrogate: d-N-EtFOSA	67.5 %		10-130	EPA 1633A	11/27/25 12:14
Surrogate: M3HFPO-DA	130 %		40-130	EPA 1633A	11/27/25 12:14
Surrogate: d9-N-EtFOSE	79.3 %		10-130	EPA 1633A	11/27/25 12:14
Surrogate: d7-N-MeFOSE	84.2 %		10-130	EPA 1633A	11/27/25 12:14

Client:	Terracon Consultants, Inc.	York Sample ID:	25K1236-03
Client Project:	HPN Outfall OF-7 J2257015 Task 7	Date Received:	11/24/2025
Client Sample ID:	TS OF-7 GAC 2	Collection Date/Time:	11/24/25 11:24

Lab ID:	25K1236-03	Laboratory:	Queens
Analysis:	PFAS Target compounds by LC/MS-MS	Matrix:	Other
Prep Method:	Sample Prepared by Method: EPA 1633 Prep		

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND		0.786	1.78	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
Perfluorohexanoic acid (PFHxA)	ND		0.363	2.02	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
Perfluoroheptanoic acid (PFHpA)	ND		0.706	2.02	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
Perfluorohexanesulfonic acid (PFHxS)	ND		0.897	1.84	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
Perfluorooctanoic acid (PFOA)	ND		0.796	2.02	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
Perfluorooctanesulfonic acid (PFOS)	ND		0.766	1.88	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
Perfluorononanoic acid (PFNA)	ND		0.998	2.02	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM



Client: Terracon Consultants, Inc.
Client Project: HPN Outfall OF-7 J2257015 Task 7
Client Sample ID: TS OF-7 GAC 2

York Sample ID: 25K1236-03
Date Received: 11/24/2025
Collection Date/Time: 11/24/25 11:24

Lab ID: 25K1236-03 **Laboratory:** Queens
Analysis: PFAS Target compounds by LC/MS-MS **Matrix:** Other
Prep Method: Sample Prepared by Method: EPA 1633 Prep

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
Perfluorodecanoic acid (PFDA)	ND		0.575	2.02	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
Perfluoroundecanoic acid (PFUnA)	ND		0.716	2.02	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
Perfluorododecanoic acid (PFDoA)	ND		0.605	2.02	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
Perfluorotridecanoic acid (PFTrDA)	ND		1.21	2.02	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
Perfluorotetradecanoic acid (PFTA)	ND		1.59	2.02	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
N-MeFOSAA	ND		0.504	2.02	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
N-EtFOSAA	ND		1.06	2.02	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
Perfluoropentanoic acid (PFPeA)	2.45	J	0.897	4.03	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
Perfluoro-1-octanesulfonamide (FOSA)	ND		0.373	2.02	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.312	1.93	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.625	1.95	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		2.34	7.66	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		2.27	7.74	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
Perfluoro-n-butanoic acid (PFBA)	7.54	J	1.64	8.06	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		0.504	3.59	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND		3.02	4.03	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND		0.706	4.03	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
Perfluoro-5-oxahexanoic acid (PFMBA)	ND		1.41	4.03	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
Perfluoro-1-pentanesulfonate (PFPeS)	ND		0.756	1.90	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		2.84	7.56	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
HFPO-DA (Gen-X)	ND		3.17	8.06	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
11CL-PF3OUdS	ND	PF-CCV-L	2.25	7.62	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
9CL-PF3ONS	ND	PF-CCV-L	2.77	7.54	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
		PF-LCS-L								
ADONA	ND		2.99	7.62	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
Perfluorododecanesulfonic acid (PFDoS)	ND		0.897	1.96	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.756	1.94	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3FTCA)	ND		2.38	10.1	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	ND		6.78	50.4	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
2H,2H,3H,3H-Perfluorodecanoic acid (7:3FTCA)	ND		23.3	50.4	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM



Client: Terracon Consultants, Inc.

York Sample ID: 25K1236-03

Client Project: HPN Outfall OF-7 J2257015 Task 7

Date Received: 11/24/2025

Client Sample ID: TS OF-7 GAC 2

Collection Date/Time: 11/24/25 11:24

Lab ID: 25K1236-03

Laboratory: Queens

Analysis: PFAS Target compounds by LC/MS-MS

Matrix: Other

Prep Method: Sample Prepared by Method: EPA 1633 Prep

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
N-MeFOSE	ND		7.16	20.2	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
N-MeFOSA	ND		0.716	2.02	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
N-EtFOSE	ND		7.34	20.2	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM
N-EtFOSA	ND		1.06	2.02	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:43	AM

Surrogate Recoveries	Result	Flag	Acceptance Range	Reference Method	Analyzed
Surrogate: M3PFBS	149 %	PFSu-H	40-135	EPA 1633A	11/27/25 12:43
Surrogate: M5PFHxA	128 %		40-130	EPA 1633A	11/27/25 12:43
Surrogate: M4PFHpA	112 %		40-130	EPA 1633A	11/27/25 12:43
Surrogate: M3PFHxS	131 %	PFSu-H	40-130	EPA 1633A	11/27/25 12:43
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	122 %		40-130	EPA 1633A	11/27/25 12:43
Surrogate: M6PFDA	114 %		40-130	EPA 1633A	11/27/25 12:43
Surrogate: M7PFUdA	103 %		30-130	EPA 1633A	11/27/25 12:43
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	90.9 %		10-130	EPA 1633A	11/27/25 12:43
Surrogate: M2PFTeDA	79.8 %		10-130	EPA 1633A	11/27/25 12:43
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	129 %		5-130	EPA 1633A	11/27/25 12:43
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	110 %		40-130	EPA 1633A	11/27/25 12:43
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	142 %	PFSu-H	40-130	EPA 1633A	11/27/25 12:43
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	133 %	PFSu-H	40-130	EPA 1633A	11/27/25 12:43
Surrogate: d3-N-MeFOSAA	107 %		40-170	EPA 1633A	11/27/25 12:43
Surrogate: d5-N-EtFOSAA	110 %		25-135	EPA 1633A	11/27/25 12:43
Surrogate: M2-6:2 FTS	109 %		40-200	EPA 1633A	11/27/25 12:43
Surrogate: M2-8:2 FTS	90.9 %		40-300	EPA 1633A	11/27/25 12:43
Surrogate: M9PFNA	118 %		40-130	EPA 1633A	11/27/25 12:43
Surrogate: M2-4:2 FTS	123 %		40-200	EPA 1633A	11/27/25 12:43
Surrogate: d-N-MeFOSA	78.4 %		10-130	EPA 1633A	11/27/25 12:43
Surrogate: d-N-EtFOSA	82.8 %		10-130	EPA 1633A	11/27/25 12:43
Surrogate: M3HFPO-DA	139 %	PFSu-H	40-130	EPA 1633A	11/27/25 12:43
Surrogate: d9-N-EtFOSE	84.4 %		10-130	EPA 1633A	11/27/25 12:43
Surrogate: d7-N-MeFOSE	90.8 %		10-130	EPA 1633A	11/27/25 12:43



Client: Terracon Consultants, Inc.
Client Project: HPN Outfall OF-7 J2257015 Task 7
Client Sample ID: TS OF-7 GAC 1

York Sample ID: 25K1236-04
Date Received: 11/24/2025
Collection Date/Time: 11/24/25 11:21

Lab ID: 25K1236-04
Analysis: PFAS Target compounds by LC/MS-MS
Prep Method: Sample Prepared by Method: EPA 1633 Prep

Laboratory: Queens
Matrix: Other

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	12.1		0.777	1.76	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
Perfluorohexanoic acid (PFHxA)	80.8		0.359	1.99	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
Perfluoroheptanoic acid (PFHpA)	49.8		0.697	1.99	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
Perfluorohexanesulfonic acid (PFHxS)	180		0.886	1.82	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
Perfluorooctanoic acid (PFOA)	129		0.787	1.99	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
Perfluorooctanesulfonic acid (PFOS)	466		0.757	1.85	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
Perfluorononanoic acid (PFNA)	43.7		0.986	1.99	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
Perfluorodecanoic acid (PFDA)	2.37		0.568	1.99	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
Perfluoroundecanoic acid (PFUnA)	9.88		0.707	1.99	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
Perfluorododecanoic acid (PFDoA)	ND		0.598	1.99	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
Perfluorotridecanoic acid (PFTriDA)	ND		1.20	1.99	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
Perfluorotetradecanoic acid (PFTA)	ND		1.57	1.99	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
N-MeFOSAA	ND		0.498	1.99	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
N-EtFOSAA	ND		1.05	1.99	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
Perfluoropentanoic acid (PFPeA)	150		0.886	3.98	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
Perfluoro-1-octanesulfonamide (FOSA)	1.54	J	0.369	1.99	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
Perfluoro-1-heptanesulfonic acid (PFHpS)	7.79		0.309	1.90	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.618	1.92	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	58.5		2.31	7.57	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	6.02	J	2.24	7.65	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
Perfluoro-n-butanoic acid (PFBA)	57.9		1.62	7.97	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		0.498	3.55	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND		2.99	3.98	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND		0.697	3.98	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
Perfluoro-5-oxahexanoic acid (PFMBA)	ND		1.39	3.98	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
Perfluoro-1-pentanesulfonate (PFPeS)	15.7		0.747	1.87	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		2.81	7.47	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
HFPO-DA (Gen-X)	ND		3.13	7.97	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
11CL-PF3OUdS	ND	PF-CCV-L	2.22	7.53	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
9CL-PF3ONS	ND	PF-CCV-L	2.74	7.45	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
ADONA	ND	PF-LCS-L	2.96	7.53	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM



Client:	Terracon Consultants, Inc.	York Sample ID:	25K1236-04
Client Project:	HPN Outfall OF-7 J2257015 Task 7	Date Received:	11/24/2025
Client Sample ID:	TS OF-7 GAC 1	Collection Date/Time:	11/24/25 11:21

Lab ID:	25K1236-04	Laboratory:	Queens
Analysis:	PFAS Target compounds by LC/MS-MS	Matrix:	Other
Prep Method:	Sample Prepared by Method: EPA 1633 Prep		

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
Perfluorododecanesulfonic acid (PFDoS)	ND		0.886	1.93	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.747	1.91	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3FTCA)	ND		2.35	9.96	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	ND		6.70	49.8	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
2H,2H,3H,3H-Perfluorodecanoic acid (7:3FTCA)	ND		23.0	49.8	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
N-MeFOSE	ND		7.07	19.9	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
N-MeFOSA	ND		0.707	1.99	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
N-EtFOSE	ND		7.25	19.9	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM
N-EtFOSA	ND		1.05	1.99	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 12:57	AM

Surrogate Recoveries	Result	Flag	Acceptance Range	Reference Method	Analyzed
Surrogate: M3PFBS	144 %	PFSu-H	40-135	EPA 1633A	11/27/25 12:57
Surrogate: M5PFHxA	123 %		40-130	EPA 1633A	11/27/25 12:57
Surrogate: M4PFHpA	97.6 %		40-130	EPA 1633A	11/27/25 12:57
Surrogate: M3PFHxS	131 %	PFSu-H	40-130	EPA 1633A	11/27/25 12:57
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	118 %		40-130	EPA 1633A	11/27/25 12:57
Surrogate: M6PFDA	98.8 %		40-130	EPA 1633A	11/27/25 12:57
Surrogate: M7PFUdA	89.5 %		30-130	EPA 1633A	11/27/25 12:57
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	79.7 %		10-130	EPA 1633A	11/27/25 12:57
Surrogate: M2PFTeDA	67.7 %		10-130	EPA 1633A	11/27/25 12:57
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	113 %		5-130	EPA 1633A	11/27/25 12:57
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	112 %		40-130	EPA 1633A	11/27/25 12:57
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	135 %	PFSu-H	40-130	EPA 1633A	11/27/25 12:57
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	130 %		40-130	EPA 1633A	11/27/25 12:57
Surrogate: d3-N-MeFOSAA	102 %		40-170	EPA 1633A	11/27/25 12:57
Surrogate: d5-N-EtFOSAA	107 %		25-135	EPA 1633A	11/27/25 12:57
Surrogate: M2-6:2 FTS	124 %		40-200	EPA 1633A	11/27/25 12:57
Surrogate: M2-8:2 FTS	102 %		40-300	EPA 1633A	11/27/25 12:57
Surrogate: M9PFNA	114 %		40-130	EPA 1633A	11/27/25 12:57
Surrogate: M2-4:2 FTS	162 %		40-200	EPA 1633A	11/27/25 12:57
Surrogate: d-N-MeFOSA	80.1 %		10-130	EPA 1633A	11/27/25 12:57
Surrogate: d-N-EtFOSA	79.4 %		10-130	EPA 1633A	11/27/25 12:57
Surrogate: M3HFPO-DA	127 %		40-130	EPA 1633A	11/27/25 12:57



Client:	Terracon Consultants, Inc.	York Sample ID:	25K1236-04
Client Project:	HPN Outfall OF-7 J2257015 Task 7	Date Received:	11/24/2025
Client Sample ID:	TS OF-7 GAC 1	Collection Date/Time:	11/24/25 11:21

Lab ID:	25K1236-04	Laboratory:	Queens
Analysis:	PFAS Target compounds by LC/MS-MS	Matrix:	Other
Prep Method:	Sample Prepared by Method: EPA 1633 Prep		

Surrogate Recoveries	Result	Flag	Acceptance Range	Reference Method	Analyzed
Surrogate: d9-N-EtFOSE	79.7 %		10-130	EPA 1633A	11/27/25 12:57
Surrogate: d7-N-MeFOSE	86.0 %		10-130	EPA 1633A	11/27/25 12:57

Client:	Terracon Consultants, Inc.	York Sample ID:	25K1236-05
Client Project:	HPN Outfall OF-7 J2257015 Task 7	Date Received:	11/24/2025
Client Sample ID:	TS OF-7 INF	Collection Date/Time:	11/24/25 11:15

Lab ID:	25K1236-05	Laboratory:	Queens
Analysis:	PFAS Target compounds by LC/MS-MS	Matrix:	Surface Water
Prep Method:	Sample Prepared by Method: EPA 1633 Prep		

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	49.0		0.819	1.86	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
Perfluorohexanoic acid (PFHxA)	266		0.378	2.10	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
Perfluoroheptanoic acid (PFHpA)	187		0.735	2.10	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
Perfluorohexanesulfonic acid (PFHxS)	857		4.67	9.61	5	ng/L	EPA 1633A	11/25/25 11:46	12/ 2/25 21:54	AM
Perfluorooctanoic acid (PFOA)	528		0.830	2.10	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
Perfluorooctanesulfonic acid (PFOS)	2350		3.99	9.77	5	ng/L	EPA 1633A	11/25/25 11:46	12/ 2/25 21:54	AM
Perfluorononanoic acid (PFNA)	200		1.04	2.10	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
Perfluorodecanoic acid (PFDA)	11.0		0.599	2.10	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
Perfluoroundecanoic acid (PFUnA)	54.3		0.746	2.10	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
Perfluorododecanoic acid (PFDoA)	ND		0.630	2.10	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
Perfluorotridecanoic acid (PFTriDA)	ND		1.26	2.10	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
Perfluorotetradecanoic acid (PFTA)	ND		1.66	2.10	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
N-MeFOSAA	ND		0.525	2.10	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
N-EtFOSAA	ND		1.10	2.10	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
Perfluoropentanoic acid (PFPeA)	369		0.935	4.20	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
Perfluoro-1-octanesulfonamide (FOSA)	10.0		0.389	2.10	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
Perfluoro-1-heptanesulfonic acid (PFHpS)	45.0		0.326	2.01	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.651	2.03	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	279		2.44	7.98	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	36.4		2.36	8.07	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
Perfluoro-n-butanoic acid (PFBA)	92.1		1.71	8.40	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM



Client:	Terracon Consultants, Inc.	York Sample ID:	25K1236-05
Client Project:	HPN Outfall OF-7 J2257015 Task 7	Date Received:	11/24/2025
Client Sample ID:	TS OF-7 INF	Collection Date/Time:	11/24/25 11:15

Lab ID:	25K1236-05	Laboratory:	Queens
Analysis:	PFAS Target compounds by LC/MS-MS	Matrix:	Surface Water
Prep Method:	Sample Prepared by Method: EPA 1633 Prep		

Parameter	Result	Flag	MDL	RL	Dilution	Units	Reference Method	Extracted	Analyzed	Analyst
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND		0.525	3.74	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.15	4.20	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND		0.735	4.20	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
Perfluoro-5-oxahexanoic acid (PFMBA)	ND		1.47	4.20	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
Perfluoro-1-pentanesulfonate (PFPeS)	77.0		0.788	1.97	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		2.96	7.88	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
HFPO-DA (Gen-X)	ND		3.30	8.40	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
11CL-PF3OUdS	ND	PF-CCV-L	2.34	7.94	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
9CL-PF3ONS	ND	PF-CCV-L	2.89	7.86	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
		PF-LCS-L								
ADONA	ND		3.12	7.94	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
Perfluorododecanesulfonic acid (PFDoS)	ND		0.935	2.04	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.788	2.02	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3FTCA)	ND		2.48	10.5	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	ND		7.07	52.5	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
2H,2H,3H,3H-Perfluorodecanoic acid (7:3FTCA)	ND		24.2	52.5	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
N-MeFOSE	ND		7.46	21.0	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
N-MeFOSA	ND		0.746	2.10	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
N-EtFOSE	ND		7.65	21.0	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM
N-EtFOSA	ND		1.10	2.10	1	ng/L	EPA 1633A	11/25/25 11:46	11/27/25 13:12	AM

Surrogate Recoveries	Result	Flag	Acceptance Range	Reference Method	Analyzed
Surrogate: M3PFBS	153 %	PFSu-H	40-135	EPA 1633A	12/ 2/25 21:54
Surrogate: M3PFBS	166 %	PFSu-H	40-135	EPA 1633A	11/27/25 13:12
Surrogate: M5PFHxA	126 %		40-130	EPA 1633A	12/ 2/25 21:54
Surrogate: M5PFHxA	131 %	PFSu-H	40-130	EPA 1633A	11/27/25 13:12
Surrogate: M4PFHpA	89.0 %		40-130	EPA 1633A	12/ 2/25 21:54
Surrogate: M4PFHpA	106 %		40-130	EPA 1633A	11/27/25 13:12
Surrogate: M3PFHxS	133 %	PFSu-H	40-130	EPA 1633A	12/ 2/25 21:54
Surrogate: M3PFHxS	143 %	PFSu-H	40-130	EPA 1633A	11/27/25 13:12
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	131 %	PFSu-H	40-130	EPA 1633A	11/27/25 13:12
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	124 %		40-130	EPA 1633A	12/ 2/25 21:54



Client:	Terracon Consultants, Inc.	York Sample ID:	25K1236-05
Client Project:	HPN Outfall OF-7 J2257015 Task 7	Date Received:	11/24/2025
Client Sample ID:	TS OF-7 INF	Collection Date/Time:	11/24/25 11:15

Lab ID:	25K1236-05	Laboratory:	Queens
Analysis:	PFAS Target compounds by LC/MS-MS	Matrix:	Surface Water
Prep Method:	Sample Prepared by Method: EPA 1633 Prep		

Surrogate Recoveries	Result	Flag	Acceptance Range	Reference Method	Analyzed
Surrogate: M6PFDA	109 %		40-130	EPA 1633A	12/ 2/25 21:54
Surrogate: M6PFDA	115 %		40-130	EPA 1633A	11/27/25 13:12
Surrogate: M7PFUdA	77.5 %		30-130	EPA 1633A	12/ 2/25 21:54
Surrogate: M7PFUdA	95.8 %		30-130	EPA 1633A	11/27/25 13:12
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	76.3 %		10-130	EPA 1633A	11/27/25 13:12
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	59.6 %		10-130	EPA 1633A	12/ 2/25 21:54
Surrogate: M2PFTeDA	32.1 %		10-130	EPA 1633A	12/ 2/25 21:54
Surrogate: M2PFTeDA	38.3 %		10-130	EPA 1633A	11/27/25 13:12
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	79.0 %		5-130	EPA 1633A	11/27/25 13:12
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	83.9 %		5-130	EPA 1633A	12/ 2/25 21:54
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	114 %		40-130	EPA 1633A	12/ 2/25 21:54
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	128 %		40-130	EPA 1633A	11/27/25 13:12
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	137 %	PFSu-H	40-130	EPA 1633A	11/27/25 13:12
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	127 %		40-130	EPA 1633A	12/ 2/25 21:54
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	126 %		40-130	EPA 1633A	12/ 2/25 21:54
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	171 %	PFSu-H	40-130	EPA 1633A	11/27/25 13:12
Surrogate: d3-N-MeFOSAA	114 %		40-170	EPA 1633A	12/ 2/25 21:54
Surrogate: d3-N-MeFOSAA	122 %		40-170	EPA 1633A	11/27/25 13:12
Surrogate: d5-N-EtFOSAA	96.9 %		25-135	EPA 1633A	12/ 2/25 21:54
Surrogate: d5-N-EtFOSAA	135 %		25-135	EPA 1633A	11/27/25 13:12
Surrogate: M2-6:2 FTS	258 %	PFSu-H	40-200	EPA 1633A	12/ 2/25 21:54
Surrogate: M2-6:2 FTS	188 %		40-200	EPA 1633A	11/27/25 13:12
Surrogate: M2-8:2 FTS	224 %		40-300	EPA 1633A	12/ 2/25 21:54
Surrogate: M2-8:2 FTS	154 %		40-300	EPA 1633A	11/27/25 13:12
Surrogate: M9PFNA	115 %		40-130	EPA 1633A	12/ 2/25 21:54
Surrogate: M9PFNA	121 %		40-130	EPA 1633A	11/27/25 13:12
Surrogate: M2-4:2 FTS	251 %	PFSu-H	40-200	EPA 1633A	12/ 2/25 21:54
Surrogate: M2-4:2 FTS	199 %		40-200	EPA 1633A	11/27/25 13:12
Surrogate: d-N-MeFOSA	61.8 %		10-130	EPA 1633A	12/ 2/25 21:54
Surrogate: d-N-MeFOSA	77.1 %		10-130	EPA 1633A	11/27/25 13:12
Surrogate: d-N-EtFOSA	39.3 %		10-130	EPA 1633A	12/ 2/25 21:54
Surrogate: d-N-EtFOSA	62.5 %		10-130	EPA 1633A	11/27/25 13:12
Surrogate: M3HFPO-DA	137 %	PFSu-H	40-130	EPA 1633A	12/ 2/25 21:54



Client:	Terracon Consultants, Inc.	York Sample ID:	25K1236-05
Client Project:	HPN Outfall OF-7 J2257015 Task 7	Date Received:	11/24/2025
Client Sample ID:	TS OF-7 INF	Collection Date/Time:	11/24/25 11:15

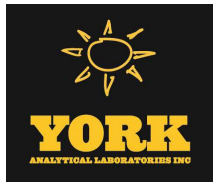
Lab ID:	25K1236-05	Laboratory:	Queens
Analysis:	PFAS Target compounds by LC/MS-MS	Matrix:	Surface Water
Prep Method:	Sample Prepared by Method: EPA 1633 Prep		

Surrogate Recoveries	Result	Flag	Acceptance Range	Reference Method	Analyzed
Surrogate: M3HFPO-DA	149 %	PFSu-H	40-130	EPA 1633A	11/27/25 13:12
Surrogate: d9-N-EtFOSE	39.0 %		10-130	EPA 1633A	12/ 2/25 21:54
Surrogate: d9-N-EtFOSE	56.1 %		10-130	EPA 1633A	11/27/25 13:12
Surrogate: d7-N-MeFOSE	66.7 %		10-130	EPA 1633A	12/ 2/25 21:54
Surrogate: d7-N-MeFOSE	73.6 %		10-130	EPA 1633A	11/27/25 13:12



Certified Analyses included in this Report

Analyte	CAS #	Certifications
<i>EPA 1633A in Water</i>		
11CL-PF3OUdS	763051-92-9	NYSDOH-NY12058
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	NYSDOH-NY12058
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	757124-72-4	NYSDOH-NY12058
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	27619-97-2	NYSDOH-NY12058
2H,2H,3H,3H-Perfluorodecanoic acid (7:3FTCA)	812-70-4	NYSDOH-NY12058
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	914637-49-3	NYSDOH-NY12058
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3FTCA)	356-02-5	NYSDOH-NY12058
9CL-PF3ONS	756426-58-1	NYSDOH-NY12058
ADONA	919005-14-4	NYSDOH-NY12058
HFPO-DA (Gen-X)	13252-13-6	NYSDOH-NY12058
N-EtFOSA	4151-50-2	NYSDOH-NY12058
N-EtFOSAA	2991-50-6	NYSDOH-NY12058
N-EtFOSE	1691-99-2	NYSDOH-NY12058
N-MeFOSA	31506-32-8	NYSDOH-NY12058
N-MeFOSAA	2355-31-9	NYSDOH-NY12058
N-MeFOSE	24448-09-7	NYSDOH-NY12058
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	113507-82-7	NYSDOH-NY12058
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	NYSDOH-NY12058
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	NYSDOH-NY12058
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	NYSDOH-NY12058
Perfluoro-1-octanesulfonamide (FOSA)	754-91-6	NYSDOH-NY12058
Perfluoro-1-pentanesulfonate (PFPeS)	2706-91-4	NYSDOH-NY12058
Perfluoro-3,6-dioxahheptanoic acid (NFDHA)	151772-58-6	NYSDOH-NY12058
Perfluoro-4-oxapentanoic acid (PFMPA)	377-73-1	NYSDOH-NY12058
Perfluoro-5-oxahexanoic acid (PFMBA)	863090-89-5	NYSDOH-NY12058
Perfluorobutanesulfonic acid (PFBS)	375-73-5	NYSDOH-NY12058
Perfluorodecanoic acid (PFDA)	335-76-2	NYSDOH-NY12058
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	NYSDOH-NY12058
Perfluorododecanoic acid (PFDoA)	307-55-1	NYSDOH-NY12058
Perfluoroheptanoic acid (PFHpA)	375-85-9	NYSDOH-NY12058
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	NYSDOH-NY12058
Perfluorohexanoic acid (PFHxA)	307-24-4	NYSDOH-NY12058
Perfluoro-n-butanoic acid (PFBA)	375-22-4	NYSDOH-NY12058
Perfluorononanoic acid (PFNA)	375-95-1	NYSDOH-NY12058
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	NYSDOH-NY12058
Perfluorooctanoic acid (PFOA)	335-67-1	NYSDOH-NY12058
Perfluoropentanoic acid (PFPeA)	2706-90-3	NYSDOH-NY12058
Perfluorotetradecanoic acid (PFTA)	376-06-7	NYSDOH-NY12058
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	NYSDOH-NY12058
Perfluoroundecanoic acid (PFUnA)	2058-94-8	NYSDOH-NY12058



List of Certifications

Code	Description	Number	Expires
NYSDOH-NY12058	NYSDOH NELAC/ELAP Program - Queens	NY ELAP-12058	04/01/2026



Analytical Batch Summary

Batch ID: BK51563		Preparation Method: EPA 1633 Prep	Prepared By: MG
YORK Sample ID	Client Sample ID	Preparation Date	
25K1236-01	TS OF-7 EFF	11/25/25	
25K1236-02	TS OF-7 GAC 3	11/25/25	
25K1236-03	TS OF-7 GAC 2	11/25/25	
25K1236-04	TS OF-7 GAC 1	11/25/25	
25K1236-05	TS OF-7 INF	11/25/25	
25K1236-05RE1	TS OF-7 INF	11/25/25	
BK51563-BLK1	Blank	11/25/25	
BK51563-BS1	LCS	11/25/25	
BK51563-BS2	LCS	11/25/25	
BK51563-DUP1	Duplicate	11/25/25	



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK51563 - EPA 1633 Prep											
Blank (BK51563-BLK1)											
						Prepared: 11/25/2025 Analyzed: 11/27/2025					
Perfluorobutanesulfonic acid (PFBS)	ND	1.77	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	ng/L								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	ng/L								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.83	ng/L								
Perfluorooctanoic acid (PFOA)	ND	2.00	ng/L								
Perfluorooctanesulfonic acid (PFOS)	ND	1.86	ng/L								
Perfluorononanoic acid (PFNA)	ND	2.00	ng/L								
Perfluorodecanoic acid (PFDA)	ND	2.00	ng/L								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	ng/L								
Perfluorododecanoic acid (PFDoA)	ND	2.00	ng/L								
Perfluorotridecanoic acid (PFTriDA)	ND	2.00	ng/L								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	ng/L								
N-MeFOSAA	ND	2.00	ng/L								
N-EtFOSAA	ND	2.00	ng/L								
Perfluoropentanoic acid (PFPeA)	ND	4.00	ng/L								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	ng/L								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.91	ng/L								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.93	ng/L								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	7.60	ng/L								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	7.68	ng/L								
Perfluoro-n-butanoic acid (PFBA)	ND	8.00	ng/L								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	ND	3.56	ng/L								
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND	4.00	ng/L								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	4.00	ng/L								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	4.00	ng/L								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.88	ng/L								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	7.50	ng/L								
HFPO-DA (Gen-X)	ND	8.00	ng/L								
11CL-PF3OUdS	ND	7.56	ng/L								
9CL-PF3ONS	ND	7.48	ng/L								
ADONA	ND	7.56	ng/L								
Perfluorododecanesulfonic acid (PFDoS)	ND	1.94	ng/L								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.92	ng/L								
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3FTCA)	ND	10.0	ng/L								
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	ND	50.0	ng/L								
2H,2H,3H,3H-Perfluorodecanoic acid (7:3FTCA)	ND	50.0	ng/L								
N-MeFOSE	ND	20.0	ng/L								
N-MeFOSA	ND	2.00	ng/L								
N-EtFOSE	ND	20.0	ng/L								
N-EtFOSA	ND	2.00	ng/L								
Surrogate: M3PFBS	26.8		ng/L	23.3		115	40-135				
Surrogate: M5PFHxA	25.3		ng/L	25.0		101	40-130				
Surrogate: M4PFHpA	22.6		ng/L	25.0		90.3	40-130				
Surrogate: M3PFHxS	24.3		ng/L	23.7		102	40-130				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK51563 - EPA 1633 Prep											
Blank (BK51563-BLK1)											
Prepared: 11/25/2025 Analyzed: 11/27/2025											
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	24.9		ng/L	25.0		99.6	40-130				
Surrogate: M6PFDA	11.9		ng/L	12.5		95.3	40-130				
Surrogate: M7PFUdA	11.3		ng/L	12.5		90.1	30-130				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	10.5		ng/L	12.5		83.9	10-130				
Surrogate: M2PFTeDA	8.62		ng/L	12.5		69.0	10-130				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	102		ng/L	100		102	5-130				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	23.7		ng/L	24.0		98.9	40-130				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	57.6		ng/L	50.0		115	40-130				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	26.6		ng/L	25.0		107	40-130				
Surrogate: d3-N-MeFOSAA	45.4		ng/L	50.0		90.9	40-170				
Surrogate: d5-N-EtFOSAA	47.8		ng/L	50.0		95.6	25-135				
Surrogate: M2-6:2 FTS	37.7		ng/L	47.6		79.3	40-200				
Surrogate: M2-8:2 FTS	36.7		ng/L	48.0		76.5	40-300				
Surrogate: M9PFNA	11.8		ng/L	12.5		94.4	40-130				
Surrogate: M2-4:2 FTS	45.7		ng/L	46.9		97.3	40-200				
Surrogate: d-N-MeFOSA	13.0		ng/L	25.0		52.0	10-130				
Surrogate: d-N-EtFOSA	13.4		ng/L	25.0		53.6	10-130				
Surrogate: M3HFPO-DA	112		ng/L	100		112	40-130				
Surrogate: d9-N-EtFOSE	204		ng/L	250		81.6	10-130				
Surrogate: d7-N-MeFOSE	218		ng/L	250		87.1	10-130				
LCS (BK51563-BS1)											
Prepared: 11/25/2025 Analyzed: 11/27/2025											
Perfluorobutanesulfonic acid (PFBS)	33.6	1.77	ng/L	35.4		94.8	60-145				
Perfluorohexanoic acid (PFHxA)	38.2	2.00	ng/L	40.0		95.6	70-145				
Perfluoroheptanoic acid (PFHpA)	40.0	2.00	ng/L	40.0		100	70-150				
Perfluorohexanesulfonic acid (PFHxS)	35.2	1.83	ng/L	36.6		96.2	65-145				
Perfluorooctanoic acid (PFOA)	39.7	2.00	ng/L	40.0		99.3	70-150				
Perfluorooctanesulfonic acid (PFOS)	34.9	1.86	ng/L	37.2		93.8	55-150				
Perfluorononanoic acid (PFNA)	38.4	2.00	ng/L	40.0		96.1	70-150				
Perfluorodecanoic acid (PFDA)	39.5	2.00	ng/L	40.0		98.7	70-140				
Perfluoroundecanoic acid (PFUnA)	38.9	2.00	ng/L	40.0		97.2	70-145				
Perfluorododecanoic acid (PFDoA)	38.7	2.00	ng/L	40.0		96.7	70-140				
Perfluorotridecanoic acid (PFTrDA)	42.5	2.00	ng/L	40.0		106	65-140				
Perfluorotetradecanoic acid (PFTA)	42.3	2.00	ng/L	40.0		106	60-140				
N-MeFOSAA	37.2	2.00	ng/L	40.0		93.1	50-140				
N-EtFOSAA	38.3	2.00	ng/L	40.0		95.7	70-145				
Perfluoropentanoic acid (PFPeA)	77.0	4.00	ng/L	80.0		96.2	65-135				
Perfluoro-1-octanesulfonamide (FOSA)	36.6	2.00	ng/L	40.0		91.6	70-145				
Perfluoro-1-heptanesulfonic acid (PFHpS)	35.0	1.91	ng/L	38.2		91.7	70-150				
Perfluoro-1-decanesulfonic acid (PFDS)	31.9	1.93	ng/L	38.6		82.5	60-145				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	141	7.60	ng/L	152		92.6	65-155				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	146	7.68	ng/L	154		95.3	60-150				
Perfluoro-n-butanoic acid (PFBA)	152	8.00	ng/L	160		95.1	70-140				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	55.5	3.56	ng/L	71.2		78.0	70-140				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK51563 - EPA 1633 Prep											
LCS (BK51563-BS1)						Prepared: 11/25/2025 Analyzed: 11/27/2025					
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	126	4.00	ng/L	80.0		158	50-150	High Bias			
Perfluoro-4-oxapentanoic acid (PFMPA)	91.8	4.00	ng/L	80.0		115	55-140				
Perfluoro-5-oxahexanoic acid (PFMBA)	79.9	4.00	ng/L	80.0		99.9	60-150				
Perfluoro-1-pentanesulfonate (PFPeS)	35.2	1.88	ng/L	37.6		93.7	65-140				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	138	7.50	ng/L	150		92.0	70-145				
HFPO-DA (Gen-X)	71.9	8.00	ng/L	80.0		89.9	70-140				
11CL-PF3OUdS	44.8	7.56	ng/L	75.6		59.2	55-160				
9CL-PF3ONS	47.3	7.48	ng/L	74.8		63.2	70-155	Low Bias			
ADONA	62.2	7.56	ng/L	75.6		82.2	65-145				
Perfluorododecanesulfonic acid (PFDoS)	32.5	1.94	ng/L	38.8		83.7	50-145				
Perfluoro-1-nonanesulfonic acid (PFNS)	34.3	1.92	ng/L	38.4		89.3	65-145				
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3FTCA)	142	10.0	ng/L	160		88.8	65-130				
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	709	50.0	ng/L	800		88.6	70-135				
2H,2H,3H,3H-Perfluorodecanoic acid (7:3FTCA)	624	50.0	ng/L	800		78.0	50-145				
N-MeFOSE	403	20.0	ng/L	400		101	70-145				
N-MeFOSA	45.2	2.00	ng/L	40.0		113	60-150				
N-EtFOSE	432	20.0	ng/L	400		108	70-135				
N-EtFOSA	45.1	2.00	ng/L	40.0		113	65-145				
Surrogate: M3PFBS	31.3		ng/L	23.3		135	40-135				
Surrogate: M5PFHxA	29.5		ng/L	25.0		118	40-130				
Surrogate: M4PFHpA	25.4		ng/L	25.0		102	40-130				
Surrogate: M3PFHxS	28.8		ng/L	23.7		121	40-130				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	28.7		ng/L	25.0		115	40-130				
Surrogate: M6PFDA	15.0		ng/L	12.5		120	40-130				
Surrogate: M7PFUdA	15.4		ng/L	12.5		123	30-130				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	13.4		ng/L	12.5		107	10-130				
Surrogate: M2PFTeDA	11.9		ng/L	12.5		95.3	10-130				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	122		ng/L	100		122	5-130				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	29.7		ng/L	24.0		124	40-130				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	67.3		ng/L	50.0		135	40-130				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	32.7		ng/L	25.0		131	40-130				
Surrogate: d3-N-MeFOSAA	57.9		ng/L	50.0		116	40-170				
Surrogate: d5-N-EtFOSAA	60.8		ng/L	50.0		122	25-135				
Surrogate: M2-6:2 FTS	45.2		ng/L	47.6		95.1	40-200				
Surrogate: M2-8:2 FTS	45.1		ng/L	48.0		93.9	40-300				
Surrogate: M9PFNA	14.8		ng/L	12.5		119	40-130				
Surrogate: M2-4:2 FTS	49.9		ng/L	46.9		106	40-200				
Surrogate: d-N-MeFOSA	17.3		ng/L	25.0		69.2	10-130				
Surrogate: d-N-EtFOSA	17.6		ng/L	25.0		70.3	10-130				
Surrogate: M3HFPO-DA	126		ng/L	100		126	40-130				
Surrogate: d9-N-EtFOSE	249		ng/L	250		99.6	10-130				
Surrogate: d7-N-MeFOSE	258		ng/L	250		103	10-130				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK51563 - EPA 1633 Prep											
LCS (BK51563-BS2)						Prepared: 11/25/2025 Analyzed: 11/27/2025					
Perfluorobutanesulfonic acid (PFBS)	3.12	1.77	ng/L	3.54		88.1	60-145				
Perfluorohexanoic acid (PFHxA)	3.67	2.00	ng/L	4.00		91.6	70-145				
Perfluoroheptanoic acid (PFHpA)	3.60	2.00	ng/L	4.00		90.0	70-150				
Perfluorohexanesulfonic acid (PFHxS)	3.10	1.83	ng/L	3.66		84.6	65-145				
Perfluorooctanoic acid (PFOA)	3.96	2.00	ng/L	4.00		98.9	70-150				
Perfluorooctanesulfonic acid (PFOS)	3.38	1.86	ng/L	3.72		91.0	55-150				
Perfluorononanoic acid (PFNA)	3.46	2.00	ng/L	4.00		86.6	70-150				
Perfluorodecanoic acid (PFDA)	3.68	2.00	ng/L	4.00		91.9	70-140				
Perfluoroundecanoic acid (PFUnA)	3.33	2.00	ng/L	4.00		83.3	70-145				
Perfluorododecanoic acid (PFDoA)	4.15	2.00	ng/L	4.00		104	70-140				
Perfluorotridecanoic acid (PFTrDA)	4.26	2.00	ng/L	4.00		107	65-140				
Perfluorotetradecanoic acid (PFTA)	4.01	2.00	ng/L	4.00		100	60-140				
N-MeFOSAA	3.21	2.00	ng/L	4.00		80.3	50-140				
N-EtFOSAA	3.64	2.00	ng/L	4.00		90.9	70-145				
Perfluoropentanoic acid (PFPeA)	7.06	4.00	ng/L	8.00		88.3	65-135				
Perfluoro-1-octanesulfonamide (FOSA)	3.57	2.00	ng/L	4.00		89.3	70-145				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.59	1.91	ng/L	3.82		93.9	70-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.62	1.93	ng/L	3.86		93.7	60-145				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	12.5	7.60	ng/L	15.2		82.5	65-155				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	13.4	7.68	ng/L	15.4		87.0	60-150				
Perfluoro-n-butanoic acid (PFBA)	13.2	8.00	ng/L	16.0		82.5	70-140				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	5.70	3.56	ng/L	7.12		80.1	70-140				
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	15.4	4.00	ng/L	8.00		192	50-150	High Bias			
Perfluoro-4-oxapentanoic acid (PFMPA)	8.61	4.00	ng/L	8.00		108	55-140				
Perfluoro-5-oxahexanoic acid (PFMBA)	8.04	4.00	ng/L	8.00		101	60-150				
Perfluoro-1-pentanesulfonate (PFPeS)	3.14	1.88	ng/L	3.76		83.6	65-140				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	13.4	7.50	ng/L	15.0		89.5	70-145				
HFPO-DA (Gen-X)	6.33	8.00	ng/L	8.00		79.2	70-140				
11CL-PF3OUdS	5.77	7.56	ng/L	7.56		76.3	55-160				
9CL-PF3ONS	6.35	7.48	ng/L	7.48		84.9	70-155				
ADONA	7.53	7.56	ng/L	7.56		99.6	65-145				
Perfluorododecanesulfonic acid (PFDoS)	2.03	1.94	ng/L	3.88		52.2	50-145				
Perfluoro-1-nonanesulfonic acid (PFNS)	3.38	1.92	ng/L	3.84		88.0	65-145				
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3FTCA)	13.5	10.0	ng/L	16.0		84.2	65-130				
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	69.9	50.0	ng/L	80.0		87.3	70-135				
2H,2H,3H,3H-Perfluorodecanoic acid (7:3FTCA)	55.3	50.0	ng/L	80.0		69.1	50-145				
N-MeFOSE	38.1	20.0	ng/L	40.0		95.2	70-145				
N-MeFOSA	3.62	2.00	ng/L	4.00		90.6	60-150				
N-EtFOSE	40.8	20.0	ng/L	40.0		102	70-135				
N-EtFOSA	4.04	2.00	ng/L	4.00		101	65-145				
Surrogate: M3PFBS	34.3		ng/L	23.3		147	40-135				
Surrogate: M5PFHxA	30.8		ng/L	25.0		123	40-130				
Surrogate: M4PFHpA	26.8		ng/L	25.0		107	40-130				
Surrogate: M3PFHxS	32.0		ng/L	23.7		135	40-130				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK51563 - EPA 1633 Prep											
LCS (BK51563-BS2)											
Prepared: 11/25/2025 Analyzed: 11/27/2025											
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	29.0		ng/L	25.0		116	40-130				
Surrogate: M6PFDA	14.6		ng/L	12.5		117	40-130				
Surrogate: M7PFUDa	14.5		ng/L	12.5		116	30-130				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	12.7		ng/L	12.5		101	10-130				
Surrogate: M2PFTeDA	10.5		ng/L	12.5		83.8	10-130				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	123		ng/L	100		123	5-130				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	30.1		ng/L	24.0		125	40-130				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	70.5		ng/L	50.0		141	40-130				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	33.5		ng/L	25.0		134	40-130				
Surrogate: d3-N-MeFOSAA	55.9		ng/L	50.0		112	40-170				
Surrogate: d5-N-EtFOSAA	60.8		ng/L	50.0		122	25-135				
Surrogate: M2-6:2 FTS	52.2		ng/L	47.6		110	40-200				
Surrogate: M2-8:2 FTS	47.8		ng/L	48.0		99.5	40-300				
Surrogate: M9PFNA	15.2		ng/L	12.5		121	40-130				
Surrogate: M2-4:2 FTS	54.9		ng/L	46.9		117	40-200				
Surrogate: d-N-MeFOSA	18.1		ng/L	25.0		72.5	10-130				
Surrogate: d-N-EtFOSA	18.2		ng/L	25.0		72.6	10-130				
Surrogate: M3HFPO-DA	129		ng/L	100		129	40-130				
Surrogate: d9-N-EtFOSE	256		ng/L	250		102	10-130				
Surrogate: d7-N-MeFOSE	267		ng/L	250		107	10-130				
Duplicate (BK51563-DUP1)											
*Source sample: 25K1236-02 (TS OF-7 GAC 3)						Prepared: 11/25/2025 Analyzed: 11/27/2025					
Perfluorobutanesulfonic acid (PFBS)	ND	1.82	ng/L		ND					30	
Perfluorohexanoic acid (PFHxA)	ND	2.05	ng/L		ND					30	
Perfluoroheptanoic acid (PFHpA)	ND	2.05	ng/L		ND					30	
Perfluorohexanesulfonic acid (PFHxS)	ND	1.88	ng/L		ND					30	
Perfluorooctanoic acid (PFOA)	ND	2.05	ng/L		ND					30	
Perfluorooctanesulfonic acid (PFOS)	ND	1.91	ng/L		ND					30	
Perfluorononanoic acid (PFNA)	ND	2.05	ng/L		ND					30	
Perfluorodecanoic acid (PFDA)	ND	2.05	ng/L		ND					30	
Perfluoroundecanoic acid (PFUnA)	ND	2.05	ng/L		ND					30	
Perfluorododecanoic acid (PFDoA)	ND	2.05	ng/L		ND					30	
Perfluorotridecanoic acid (PFTrDA)	ND	2.05	ng/L		ND					30	
Perfluorotetradecanoic acid (PFTA)	ND	2.05	ng/L		ND					30	
N-MeFOSAA	ND	2.05	ng/L		ND					30	
N-EtFOSAA	ND	2.05	ng/L		ND					30	
Perfluoropentanoic acid (PFPeA)	ND	4.11	ng/L		ND					30	
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.05	ng/L		ND					30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.96	ng/L		ND					30	
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.98	ng/L		ND					30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	7.80	ng/L		ND					30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	7.89	ng/L		ND					30	
Perfluoro-n-butanoic acid (PFBA)	ND	8.21	ng/L		ND					30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	ND	3.66	ng/L		ND					30	



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK51563 - EPA 1633 Prep											
Duplicate (BK51563-DUP1)		*Source sample: 25K1236-02 (TS OF-7 GAC 3)						Prepared: 11/25/2025 Analyzed: 11/27/2025			
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	4.11	ng/L		ND					30	
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	4.11	ng/L		ND					30	
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	4.11	ng/L		ND					30	
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.93	ng/L		ND					30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	7.70	ng/L		ND					30	
HFPO-DA (Gen-X)	ND	8.21	ng/L		ND					30	
11CL-PF3OUdS	ND	7.76	ng/L		ND					30	
9CL-PF3ONS	ND	7.68	ng/L		ND					30	
ADONA	ND	7.76	ng/L		ND					30	
Perfluorododecanesulfonic acid (PFDoS)	ND	1.99	ng/L		ND					30	
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.97	ng/L		ND					30	
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3FTCA)	ND	10.3	ng/L		ND					30	
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	ND	51.3	ng/L		ND					30	
2H,2H,3H,3H-Perfluorodecanoic acid (7:3FTCA)	ND	51.3	ng/L		ND					30	
N-MeFOSE	ND	20.5	ng/L		ND					30	
N-MeFOSA	ND	2.05	ng/L		ND					30	
N-EtFOSE	ND	20.5	ng/L		ND					30	
N-EtFOSA	ND	2.05	ng/L		ND					30	
Surrogate: M3PFBS	37.3		ng/L	23.9		156	40-135				
Surrogate: M5PFHxA	32.8		ng/L	25.7		128	40-130				
Surrogate: M4PFHpA	27.6		ng/L	25.7		108	40-130				
Surrogate: M3PFHxS	34.2		ng/L	24.3		141	40-130				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	32.4		ng/L	25.7		126	40-130				
Surrogate: M6PFDA	15.4		ng/L	12.8		120	40-130				
Surrogate: M7PFUdA	14.1		ng/L	12.8		110	30-130				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	13.9		ng/L	12.8		109	10-130				
Surrogate: M2PFTeDA	12.8		ng/L	12.8		99.6	10-130				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	134		ng/L	103		130	5-130				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	31.6		ng/L	24.6		129	40-130				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	72.4		ng/L	51.3		141	40-130				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	36.0		ng/L	25.7		140	40-130				
Surrogate: d3-N-MeFOSAA	56.4		ng/L	51.3		110	40-170				
Surrogate: d5-N-EtFOSAA	59.3		ng/L	51.3		116	25-135				
Surrogate: M2-6:2 FTS	52.4		ng/L	48.8		107	40-200				
Surrogate: M2-8:2 FTS	48.3		ng/L	49.3		97.9	40-300				
Surrogate: M9PFNA	15.5		ng/L	12.8		121	40-130				
Surrogate: M2-4:2 FTS	60.6		ng/L	48.2		126	40-200				
Surrogate: d-N-MeFOSA	21.0		ng/L	25.7		81.9	10-130				
Surrogate: d-N-EtFOSA	20.5		ng/L	25.7		79.8	10-130				
Surrogate: M3HFPO-DA	138		ng/L	103		135	40-130				
Surrogate: d9-N-EtFOSE	248		ng/L	257		96.4	10-130				
Surrogate: d7-N-MeFOSE	261		ng/L	257		102	10-130				



Sample and Data Qualifiers Relating to This Work Order

PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-LCS-L	The LCS recovery for this PFAS compound was below control limits.
PF-CCV-L	The CCV recovery for this PFAS compound was below control limits.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
Λ	Analyte is not certified but the state of sample origination offer certification for the Analyte

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.



Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Corrective Action: Lab received 2 sets of PFAS field blanks not listed on COC. Per client, do not process Field Blanks-GFD

