

# Brunswick County Public Utilities - NC

PO Box 249  
Bolivia, NC 28422-0249

## LELAND N.C

Client Project# NORTHWEST WATER PLANT  
Samples Received: 8/8/2025

### Analytical Report 0825-776

#### PFAS by Isotope Dilution (non-potable water)

Report Issue Date: 9/17/2025

I certify that to the best of my knowledge all analytical data presented in this report have been checked for completeness, accuracy, errors and legibility in addition to having been conducted in accordance with approved protocol, and that all deviations and analytical problems are summarized in the appropriate narrative(s). This analytical report was prepared in Portable Document Format (.PDF) and contains 29 pages. This report shall not be reproduced except in full without approval of the laboratory. This will provide assurance that parts of the report are not taken out of context.

Amendment(s):

Signature:



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# Narrative Summary

# Enthalpy Analytical Narrative Summary

Company	Brunswick County Public Utilities - NC
Job No.	0825-776-1
Client ID.	NORTHWEST WATER PLANT Site: LELAND N.C

## 1. Custody

Jose Justiniano received the samples at 5.2 °C after being relinquished by Brunswick County Public Utilities - NC.

The samples were received in good condition. Prior to, during, and after analysis, the samples were kept under lock with access only to authorized personnel by Enthalpy Analytical, LLC.

**Table 1 - Sample Inventory**

EU Lab Sample ID	Client Sample ID	Matrix	Received
0825-776-001-1	080825-SO1	aqueous	2025-08-08
0825-776-001-1A	080825-SO1	aqueous	2025-08-08
0825-776-002-1	080825-EO1	aqueous	2025-08-08
0825-776-002-1A	080825-EO1	aqueous	2025-08-08

## 2. Methods and Analytes

A list of analytes of interest and corresponding methods of analysis is shown in Table 3. Abbreviations are defined in the listed Appendices.

**Table 3 - Methods and Analytes**

EU Method	Analytes	Cleanup Method
EU047	Brunswick List	ENVI-Carb

## 3. Analysis

The samples were analyzed using LC/MS/MS instruments Frodo and Jetfire.

The samples were analyzed using more than one batch preparation and analytical sequence to include all analytes of interest.

Polar compound PFPrA in the samples, including the method blank (MB) and Ongoing Precision Recovery (OPR) samples, was analyzed by direct inject calibration.

The samples were analyzed on more than one analytical sequence in order to meet method acceptance criteria.

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## 4. Calibration

In the initial calibration, the reported analytes exhibited  $R^2$  of  $\geq 0.99$ . The reported analytes in the calibration standards, Initial Calibration Verification (ICV) and continuing calibration (concal) met the accuracy criterion for native analytes.

The Standards that did not were:

- SID BQ06 (d5-N-EtFOSAA, EVE Acid, M2-4:2 FTS, M2-6:2 FTS, PFECA-G)
- SID BQ07 (d5-N-EtFOSAA, EVE Acid, M2-4:2 FTS, M2-6:2 FTS, M2-8:2 FTS, PFECA-G, PFEESA)

Analyte(s) that exceed method control limits in the concals were not detected >LOQ in the samples. The data is reported without adverse impact.

Select extraction standards (ES) deviated from method control limits in the concal(s). Where recovery met signal-to-noise threshold and impacted analyte(s) met method recovery criteria, the data is accepted with no adverse impact.

## 5. QC Notes

Ongoing Precision Recovery (OPR) control limits have not been established for some analytes of interest.

The OPR results for polar analytes are a qualitative measure not to be used for determining batch precision and recovery. The data is reported with no adverse impact.

Except where noted below, the QC sample analyses passed all method criteria.

QC samples that did not meet method acceptance criteria were:

- OPR\_118727\_PFAS (PFPrA)

Analyte(s) that exceeded method recovery criteria in the ongoing precision recovery (OPR) QC sample were not detected >LOQ in the samples. Data is reported without adverse impact.

- MB\_118733\_PFAS (M5PFPeA, M2-4:2 FTS)
- OPR\_118733\_PFAS (M5PFPeA, M2-4:2 FTS, M2-6:2 FTS, d3-N-MeFOSA, d5-N-EtFOSA)

See additional Reporting Notes below.

PFAS by Isotope Dilution (non-potable water) samples were extracted within 28 days, and extracts analyzed within 28 days.

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## 6. Reporting Notes

The results presented in this report are representative of the samples as provided to the laboratory.

This report provides all results including detections below LOD following client instruction.

Some labeled extraction standards (ES) in the analyses recovered outside method control limits for ES recovery, as denoted by the "Q" qualifier. The target analytes are quantified based on their ratio to their labeled standard analogs. As a result, low or high labeled standard recovery do not cause any change to ratios or contribute any additional error in the measurement of the target analytes. When detected at a signal-to-noise above 10:1 the ES peak area is used to quantify its respective target analyte using accepted isotope dilution principles. The data is reported without adverse impact.

These analyses met the requirements of the TNI Standard. Any deviations from the requirements of the reference method or TNI Standard have been stated above.

Enthalpy Analytical, LLC in Wilmington NC is accredited by the Louisiana Department of Environmental Quality to the 2016 TNI Standard under certificate number 05075.

## General Reporting Notes – Data Qualifiers

The following are general reporting notes that are applicable to all Enthalpy Analytical, LLC - Wilmington, NC data reports, unless specifically noted otherwise.

### General Data Qualifiers

- Ac - Alternate calculation flag indicates the es recovery was calculated using the opening concal when either of the following situations is encountered in the data processing software: the ES recovery is over 400% or the JS is not detected.
- B – The analyte was found in the method blank, at a concentration that was at least 10% of the amount in the sample.
- Cxx – Two or more congeners co-elute. In EDDs, C denotes the lowest IUPAC congener in a co-elution group and additional co-eluters for the group ('xx') are shown with the number of the lowest IUPAC co-eluter.
- E – The reported concentration exceeds the calibration range (upper point of the calibration curve). For HRMS data, this condition does not imply additional measurement uncertainty. For LC-MS/MS data, these values should be considered as having measurement uncertainty higher than values within the calibration range.
- EDL – Estimated Detection Level: The EDL is unique to isotope dilution methods and reflects the conditions of analysis at the time of analysis, including the equipment used. Where the MDL is a static value, the EDL is a dynamic value.
- EMPC – Estimated Maximum Possible Concentration: EMPC is specific to Dioxin/Furan tests to indicate the determined ion-abundance ratio was outside the allowed theoretical range (usually due to being near the detection limit, although it can very rarely be caused by a co-eluting interference). The EMPC concentration is adjusted to reflect the value at the theoretical ion-abundance ratio.
- I/IR – The ion ratio between the primary and secondary ions was observed to be outside the method criteria. The analyte concentration may be inaccurate due to interference.
- J – The analyte has a concentration below the minimum calibration level (LOQ value) but greater than the LOD. These values should be considered as having measurement uncertainty higher than values within the calibration range
- L - For reports containing PFAS analytes only, this flag indicates that an analyte has a concentration below the Minimum Detection Limit (MDL) . The reported concentration is not recommended for regulatory use as the analyte signal may have a signal-to-noise ratio less than the criteria deemed necessary to be considered a detected analyte.
- LOD – Limit of Detection: For reports conforming to the DOD ELAP QSM, this is the QSM-defined LOD. For reports conforming to TNI requirements (but not DOD ELAP QSM requirements), this value is the minimum detection limit (MDL). The LOD is adjusted for sample weight or volume.

## General Reporting Notes – Data Qualifiers

- LOQ – Limit of Quantitation: For reports conforming to the DOD ELAP QSM, this is the QSM-defined LOQ. For reports conforming to TNI requirements (but not DOD ELAP QSM requirements), this value is the reporting limit (RL). The LOQ is adjusted for sample weight or volume.
- <LOD() – Analyte was not found at a concentration high enough to be reported as detected. It is reported as less than the LOD, and the LOD is given in the parentheses.
- <LOQ() – Analyte was not found at a concentration high enough to be reported as above the QSM-defined LOQ or TNI defined Reporting Limit. It is reported as less than the LOQ, and the LOQ is given in the parentheses.
- ND – Indicates a non-detect.
- NR – Indicates a value that is not reportable due to issues observed in sample preparation or analysis.
- PR – The associated congener(s) is(are) poorly resolved.
- QI – Indicates the presence of a quantitative interference.
- RL – Reporting Limit. Lowest reportable value. The level is higher than the MDL.
- SI – Denotes “Single Ion Mode” and is utilized for PCBs where the secondary ion trace has a significantly elevated noise level due to background PFK. Responses for such peaks are calculated using an EMPC approach based solely on the primary ion area(s) and may be considered estimates.
- U – The analyte was not detected.
- V / Q – The labeled standard recovery is not within method control limits.
- X – Indicates the result is from re-injection/repeat/second-column analysis.

### **Lab Identifiers/ Data Attributes**

- AR – Indicates use of the archived portion of the sample extract.
- CU – Indicates a sample that required additional clean-up prior to HRMS injection/processing.
- D – Dilution Data. Result was obtained from the analysis of a dilution. The number that follows the “D” indicates the dilution factor.
- DE – Indicates a dilution performed with the addition of ES (Extraction Standard) solution.
- DUP – Designation for a duplicate sample.
- MS – Designation for a matrix spike.
- MSD – Designation for a matrix spike duplicate.



## General Reporting Notes – Data Qualifiers

- R – Indicates a re-extraction of the sample.
- RJ – Indicates a reinjection of the sample extract.
- S – Indicates a sample split. The number that follows the “S” indicates the split factor.
- SAT – Indicates an analyte saturated the detector.

PFAS Compound Acronym List			Methods					
Acronym	CAS #	Compound Name	SOP EU047	EPA 1633 (B-24)	EPA 1633X	EPA 537.1	EPA 533	EPA 8327*
<b>Target Analytes</b>								
PFBA	375-22-4	Perfluorobutanoic Acid	X	X	X		X	X
PFPeA	2706-90-3	Perfluoropentanoic Acid	X	X	X		X	X
PFHxA	307-24-4	Perfluorohexanoic Acid	X	X	X	X	X	X
PFHpA	375-85-9	Perfluoroheptanoic Acid	X	X	X	X	X	X
PFOA	335-67-1	Perfluorooctanoic Acid	X	X	X	X	X	X
PFNA	375-95-1	Perfluorononanoic Acid	X	X	X	X	X	X
PFDA	335-76-2	Perfluorodecanoic acid	X	X	X	X	X	X
PFUnA (PFUnDA)	2058-94-8	Perfluoroundecanoic acid	X	X	X	X	X	X
PFDoA (PFDoDA)	307-55-1	Perfluorododecanoic acid	X	X	X	X		X
PFTrDA (PFTriA, PFTrDA)	72629-94-8	Perfluorotridecanoic acid	X	X	X	X		X
PFTeDA (PFTA, PFTreA)	376-06-7	Perfluorotetradecanoic acid	X	X	X	X		X
PFBS	375-73-5	Perfluorobutane sulfonic acid	X	X	X	X	X	X
PFPeS	2706-91-4	Perfluoropentane sulfonic acid	X	X	X		X	X
PFHxS	355-46-4	Perfluorohexane sulfonic acid	X	X	X	X	X	X
PFHpS	375-92-8	Perfluoroheptane sulfonic acid	X	X	X		X	X
PFOS	1763-23-1	Perfluorooctane sulfonic acid	X	X	X	X	X	X
PFNS	68259-12-1	Perfluorononane sulfonic acid	X	X	X			X
PFDS	335-77-3	Perfluorodecane sulfonic acid	X	X	X			X
4:2 FTS	757124-72-4	4:2 fluorotelomer sulfonic acid	X	X	X		X	X
6:2 FTS	27619-97-2	6:2 fluorotelomer sulfonic acid	X	X	X		X	X
8:2 FTS	39108-34-4	8:2 fluorotelomer sulfonic acid	X	X	X		X	X
10:2 FTS	120226-60-0	Fluorotelomer sulfonate 10:2						X
FHxSA	41997-13-1	Perfluorohexanesulfonamide			X			X
PFOSA (FOSA)	754-91-6	Perfluorooctane sulfonamide	X	X	X			X
N-MeFOSAA	2355-31-9	N-methyl perfluorooctane sulfonamido acetic acid	X	X	X	X		X
N-MeFOSA	31506-32-8	N-methylperfluoro-1-octanesulfonamide	X	X	X			X
N-MeFOSE	24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	X	X	X			X
N-EtFOSAA	2991-50-6	N-ethyl perfluorooctane sulfonamido acetic acid	X	X	X	X		X
N-EtFOSA	4151-50-2	N-ethylperfluoro-1-octanesulfonamide	X	X	X			X
N-EtFOSE	1691-99-2	2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol	X	X	X			X
HFPO-DA	13252-13-6	Hexafluoropropyleneoxide dimer acid (GenX)	X	X	X	X	X	X
11Cl-PF3OUds	763051-92-9	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	X	X	X	X	X	X
9Cl-PF3ONS	756426-58-1	9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	X	X	X	X	X	X
ADONA	919005-14-4	4,8-dioxa-3H-perfluorononanoic acid	X	X	X	X	X	X
PFESA	113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid		X	X		X	X
PFMOBA (PFMBA)	863090-89-5	Perfluoro-4-methoxybutanoic acid		X	X		X	X
NFDHA	151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid		X	X		X	X
PFMOPrA (PFMPA)	377-73-1	Perfluoro-3-methoxypropanoic acid		X	X		X	X
PFPrA	422-64-0	Perfluoropropionic acid, 2,2,3,3,3-Pentafluoropropionic acid			X			X
PFPrS (PFPS)	423-41-6	Perfluoropropanesulfonic acid			X			X

PFAS Compound Acronym List			Methods					
Acronym	CAS #	Compound Name	SOP EU047	EPA 1633 (B-24)	EPA 1633X	EPA 537.1	EPA 533	EPA 8327*
PFMOAA	674-13-5	Perfluoro-2-methoxyacetic acid;			X			X
PFO2HxA	39492-88-1	Perfluoro (3,5-dioxahexanoic) acid			X			X
PFO3OA	39492-89-2	Perfluoro (3,5,7-trioxaoctanoic) acid			X			X
PFO4DA	39492-90-5	Perfluoro (3,5,7,9-tetraoxadecanoic) acid			X			X
PFO5DA	39492-91-6	Perfluoro(3,5,7,9,11-pentaoxadodecanoic) acid			X			X
Nafion Byproduct 1 (PS Acid)	29311-67-9	1,1,2,2-tetrafluoro-2-[1,1,1,2,3,3-hexafluoro-3-(1,2,2-trifluoroethenoxy)propan-2-yl]oxyethanesulfonic acid			X			X
Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	Perfluoro-2-[[perfluoro-3-(perfluoroethoxy)-2-propanyl]oxy]ethanesulfonic acid (Hydro-PS Acid)			X			X
PEPA	267239-61-2	Perfluoro-2-ethoxypropanoic acid			X			X
PMPA	13140-29-9	Perfluoro-2-methoxypropanoic acid			X			X
PFECA-G, (PFPE-1)	801212-59-9	4-(Heptafluoroisopropoxy)hexafluorobutanoic acid, Perfluoro-4-isopropoxybutanoic acid			X			X
PFHxDA	67905-19-5	Perfluorohexadecanoic acid			X			
R-PSDA (Nafion Byproduct 4)	2416366-18-0	Perfluoro-4-(2-sulfoethoxy)pentanoic acid; 2,2,3,3,4,5,5-Octafluoro-4-(1,1,2,2-tetrafluoro-2-sulfoethoxy)pentanoic acid			X			X
Hydrolyzed PSDA (Nafion Byproduct 5)	2416366-19-1	2-fluoro-2-[1,1,2,3,3,3-hexafluoro-2-(1,1,2,2-tetrafluoro-2-sulfoethoxy)propoxy]-acetic acid			X			X
R-PSDCA (Nafion Byproduct 6)	2416366-21-5	1,1,2,2-tetrafluoro-2-[1,2,2,3,3-pentafluoro-1-(trifluoromethyl)propoxy] ethanesulfonic acid			X			X
EVE Acid	69087-46-3	2,2,3,3-tetrafluoro-3-((1,1,1,2,3,3-hexafluoro-3-[(1,2,2-trifluoroethenyl)oxy]propan-2-yl)oxy)propionic acid			X			X
FBSA	30334-69-1	Perfluorobutylsulfonamide			X			X
MeFBSA	68298-12-4	1-Butanesulfonamide; (N-(Methyl)nonafluorobutanesulfonamide); 1,1,2,2,3,3,4,4,4-nonafluoro-N-methyl-1-Butanesulfonamide			X			X
Hydro-EVE Acid	773804-62-9	2,2,3,3-Tetrafluoro-3-[[1,1,1,2,3,3-hexafluoro-3-(1,2,2,2-tetrafluoroethoxy)propan-2-yl]oxy}propanoic acid			X			X
R-EVE Acid	2416366-22-6	4-(2-carboxy-1,1,2,2-tetrafluoroethoxy)-2,2,3,3,4,5,5,5-octafluoro-pentanoic acid			X			X
NVHOS	1132933-86-8	Perfluoroethoxysulfonic acid; 1,1,2,2-Tetrafluoro-2-(1,2,2,2-tetrafluoroethoxy)ethane-1-sulfonic acid			X			X

PFAS Compound Acronym List			Methods					
Acronym	CAS #	Compound Name	SOP EU047	EPA 1633 (B-24)	EPA 1633X	EPA 537.1	EPA 533	EPA 8327*
PFDoS	79780-39-5	Perfluorododecane sulfonic acid		X	X			X
PFOA	16517-11-6	Perfluorooctadecanoic acid			X			
3:3 FTCA	356-02-5	2H,2H,3H,3H-Perfluorohexanoic acid		X	X			X
5:3 FTCA	914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid		X	X			X
7:3 FTCA	812-70-4	2H,2H,3H,3H-Perfluorodecanoic acid		X	X			X
N-AP-FHxSA	50598-28-2	N-(3-(Dimethylamino)propyl)tridecafluoro-1-hexanesulfonamide			X			X
N-CMAmP-6:2 FOSA	34455-29-3	N-(Carboxymethyl)-N,N-dimethyl-3-(((3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)sulfonyl)amino)1-propanaminium			X			X
BPAF	1478-61-1	Bisphenol AF			X			X
HQ-115	90076-65-6	Bis(trifluoromethane)sulfonimide lithium salt			X			X

\* Accreditation pending

# Results

# Enthalpy Analytical

Job No.: 0825-776-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC NORTHWEST WATER PLANT LELAND N.C

## Summary

	Compound	CAS	080825-SO1 ng/L	080825-EO1 ng/L	
Acids	PFPrA	422-64-0	ND U	ND U	
	PFBA	375-22-4	2.77	3.02	
	PFPeA	2706-90-3	5.89	6.38	
	PFHxA	307-24-4	3.93	4.62	
	PFHpA	375-85-9	1.55	1.82	
	PFOA	335-67-1	3.43	4.20	
	PFNA	375-95-1	0.509 J	0.656	
	PFDA	335-76-2	0.297 J	0.396 J	
	PFUnDA	2058-94-8	0.0811 L	0.0689 L	
	PFDoDA	307-55-1	ND U	ND U	
	PFTrDA	72629-94-8	0.0122 L	ND U	
	PFTeDA	376-06-7	0.0141 L	ND U	
	PFHxDA	67905-19-5	ND U	ND U	
	Sulfonates	PFBS	375-73-5	2.56	2.68
		PFPeS	2706-91-4	0.432 J	0.542
		PFHxS	355-46-4	2.86	2.83
PFHpS		375-92-8	0.0964 L	0.0869 L	
PFOS		1763-23-1	9.25	10.9	
PFNS		68259-12-1	ND U	ND U	
PFDS		335-77-3	ND U	ND U	
4:2 FTS		757124-72-4	ND U	ND U	
6:2 FTS		27619-97-2	0.0738 L	0.0653 L	
8:2 FTS		39108-34-4	0.00172 L	0.00169 L	
10:2 FTS		120226-60-0	ND U	ND U	
Sulfonamidos		FBSA	30334-69-1	0.171 L	0.292 J
	N-EtFOSA	4151-50-2	ND U	ND U	
	N-EtFOSAA	2991-50-6	0.0170 L	0.0561 L	
	N-EtFOSE	1691-99-2	ND U	ND U	
	N-MeFOSA	31506-32-8	ND U	ND U	
	N-MeFOSAA	2355-31-9	ND U	ND U	
	N-MeFOSE	24448-09-7	ND U	ND U	
	PFOSA	754-91-6	0.0325 L	ND U	
PFECAs	ADONA	919005-14-4	ND U	ND U	
	EVE Acid	69087-46-3	0.000202 L	ND U	
	HFPO-DA	13252-13-6	1.74	2.09	
	Hydro-EVE Acid	773804-62-9	ND U	ND U	
	NFDHA	151772-58-6	ND U	ND U	
	PEPA	267239-61-2	2.66	2.69	
	PFECA-G	801212-59-9	ND U	ND U	
	PFMOAA	674-13-5	21.3	5.10	
	PFMOBA	863090-89-5	ND U	ND U	
	PFMOPrA	377-73-1	ND U	0.0849 L	
	PFO2HxA	39492-88-1	4.57	5.36	
	PFO3OA	39492-89-2	1.35	ND U	
	PFO4DA	39492-90-5	ND U	ND U	
	PFO5DA	39492-91-6	ND U	ND U	
	PMPA	13140-29-9	5.27	6.65	
	R-EVE	2416366-22-6	2.80	2.53	
	PFESAs	11Cl-PF3OUds	763051-92-9	ND U	ND U
		9Cl-PF3ONS	756426-58-1	ND U	ND U
Hydrolyzed PSDA		2416366-19-1	0.925	1.27	
Nafion Byproduct 1 (PS Acid)		29311-67-9	ND U	ND U	
Nafion Byproduct 2 (Hydro-PS Acid)		749836-20-2	0.291 L	0.410 L	
NVHOS		1132933-86-8	0.792	1.37	
PFEESA		113507-82-7	ND U	ND U	
R-PSDA		2416366-18-0	2.95	2.36	
R-PSDCA	2416366-21-5	ND U	ND U		

# Enthalpy Analytical

Job No.: 0825-776-1 PFAS by Isotope Dilution (non-potable water)  
 Brunswick County Public Utilities - NC NORTHWEST WATER PLANT LELAND N.C

## Details

Sample Name	080825-SO1	Prep Batch	EU118727
Sampling Site		Analyst	jogres
Enthalpy ID	0825-776-001-1	Instrument	Jetfire
Matrix	aqueous	Sample Vol mL	0.1
Sampling Date	2025-08-08 13:25	Extract Vol mL	0.2
Received Date	2025-08-08	Split Factor	N/A
Prep Date	2025-09-02 15:30	Method Code	EU-047-NPW
AnalysisDate	2025-09-03 02:10		
SampleType	Sample		
Bottle ID	A		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
Acids	PFPrA	422-64-0	J020925-09030210	ND	700	1530			U
ES	13C3-PFPrA		J020925-09030210				20-150%	122%	

# Enthalpy Analytical

Job No.: 0825-776-1 PFAS by Isotope Dilution (non-potable water)  
 Brunswick County Public Utilities - NC NORTHWEST WATER PLANT LELAND N.C

## Details

Sample Name	080825-SO1	Prep Batch	EU118733
Sampling Site		Analyst	ext-magennaef
Enthalpy ID	0825-776-001-1A	Instrument	Frodo
Matrix	aqueous	Sample Vol mL	313.23
Sampling Date	2025-08-08 13:25	Extract Vol mL	0.4
Received Date	2025-08-08	Split Factor	N/A
Prep Date	2025-09-03 10:30	Method Code	EU-047-NPW
AnalysisDate	2025-09-06 19:29		
SampleType	Sample		
Bottle ID	A		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
Acids	PFBA	375-22-4	FR060925012	2.77	0.203	0.511			
	PFPeA	2706-90-3	FR060925012	5.89	0.146	0.511			
	PFHxA	307-24-4	FR060925012	3.93	0.171	0.511			
	PFFHpA	375-85-9	FR060925012	1.55	0.179	0.511			
	PFOA	335-67-1	FR060925012	3.43	0.117	0.511			
	PFNA	375-95-1	FR060925012	0.509	0.115	0.511			J
	PFDA	335-76-2	FR060925012	0.297	0.146	0.511			J
	PFUnDA	2058-94-8	FR060925012	0.0811	0.115	0.511			L
	PFDoDA	307-55-1	FR060925012	ND	0.208	0.511			U
	PFTrDA	72629-94-8	FR060925012	0.0122	0.169	0.511			L
	PFTeDA	376-06-7	FR060925012	0.0141	0.195	0.511			L
	PFHxDA	67905-19-5	FR060925012	ND	0.271	0.511			U
	Sulfonates	PFBS	375-73-5	FR060925012	2.56	0.271	0.511		
PFPeS		2706-91-4	FR060925012	0.432	0.105	0.481			J
PFHxS		355-46-4	FR060925012	2.86	0.394	0.468			
PFFHpS		375-92-8	FR060925012	0.0964	0.247	0.487			L
PFOS		1763-23-1	FR060925012	9.25	0.270	0.473			
PFNS		68259-12-1	FR060925012	ND	0.159	0.492			U
PFDS		335-77-3	FR060925012	ND	0.268	0.492			U
4:2 FTS		757124-72-4	FR060925012	ND	0.0662	0.479			U
6:2 FTS		27619-97-2	FR060925012	0.0738	0.241	0.487			L
8:2 FTS		39108-34-4	FR060925012	0.00172	0.114	0.489			L
10:2 FTS	120226-60-0	FR060925012	ND	0.391	0.511			U	
Sulfonamidos	FBSA	30334-69-1	FR060925012	0.171	0.243	0.511			L
	N-EiFOSA	4151-50-2	FR060925012	ND	0.316	0.511			U
	N-EiFOSAA	2991-50-6	FR060925012	0.0170	0.208	0.511			L
	N-EiFOSE	1691-99-2	FR060925012	ND	0.782	2.30			U
	N-MeFOSA	31506-32-8	FR060925012	ND	0.211	0.511			U
	N-MeFOSAA	2355-31-9	FR060925012	ND	0.144	0.511			U
	N-MeFOSE	24448-09-7	FR060925012	ND	0.485	2.30			U
	PFOSA	754-91-6	FR060925012	0.0325	0.0717	0.511			L
	ADONA	919005-14-4	FR060925012	ND	0.138	0.484			U
	EVE Acid	69087-46-3	FR060925012	0.000202	0.163	1.15			L
PFECAs	HFPO-DA	13252-13-6	FR060925012	1.74	0.0541	0.511			
	Hydro-EVE Acid	773804-62-9	FR060925012	ND	0.168	0.511			U
	NFDHA	151772-58-6	FR060925012	ND	0.107	0.511			U
	PEPA	267239-61-2	FR060925012	2.66	0.0958	0.511			
	PFECA-G	801212-59-9	FR060925012	ND	0.0682	0.511			U
	PFMOAA	674-13-5	FR060925012	21.3	0.259	0.511			
	PFMOBA	863090-89-5	FR060925012	ND	0.857	1.15			U
	PFMOPrA	377-73-1	FR060925012	ND	0.182	0.511			U
	PFO2HxA	39492-88-1	FR080925030	4.57	0.164	0.511			
	PFO3OA	39492-89-2	FR060925012	1.35	0.235	0.511			
	PFO4DA	39492-90-5	FR060925012	ND	0.404	2.55			U
	PFO5DA	39492-91-6	FR060925012	ND	0.409	2.55			U
	PMPA	13140-29-9	FR080925030	5.27	0.120	0.511			
	R-EVE	2416366-22-6	FR080925030	2.80	0.848	1.15			
	PFESAs	11Cl-PF3OUdS	763051-92-9	FR060925012	ND	0.241	0.481		
9Cl-PF3ONS		756426-58-1	FR060925012	ND	0.327	0.476			U
Hydrolyzed PSDA		2416366-19-1	FR080925030	0.925	0.340	0.511			
Nafion Byproduct 1 (PS Acid)		29311-67-9	FR060925012	ND	0.273	0.511			U
Nafion Byproduct 2 (Hydro-PS Acid)		749836-20-2	FR060925012	0.291	0.423	0.511			L
NVHOS		1132933-86-8	FR080925030	0.792	0.0787	0.511			
PFEESA		113507-82-7	FR060925012	ND	0.154	0.511			U
R-PSDA		2416366-18-0	FR080925030	2.95	2.25	2.25			
ES	R-PSDCA	2416366-21-5	FR060925012	ND	0.215	0.511			U
	MPFBA		FR060925012				20-150%	81.1%	
	M5PFPeA		FR060925012				20-150%	48.3%	Ac
	M3PFBS		FR060925012				20-150%	91.2%	Ac
	M2-4:2 FTS		FR060925012				20-150%	181%	Q
	M5PFFxA		FR060925012				20-150%	83.0%	
	M3HFPO-DA		FR060925012				20-150%	65.0%	
M4PFFHpA		FR060925012				20-150%	93.3%		

# Enthalpy Analytical

Job No.: 0825-776-1 PFAS by Isotope Dilution (non-potable water)  
 Brunswick County Public Utilities - NC NORTHWEST WATER PLANT LELAND N.C

## Details

Sample Name	080825-SO1	Prep Batch	EU118733
Sampling Site		Analyst	ext-magennaef
Enthalpy ID	0825-776-001-1A	Instrument	Frodo
Matrix	aqueous	Sample Vol mL	313.23
Sampling Date	2025-08-08 13:25	Extract Vol mL	0.4
Received Date	2025-08-08	Split Factor	N/A
Prep Date	2025-09-03 10:30	Method Code	EU-047-NPW
AnalysisDate	2025-09-06 19:29		
SampleType	Sample		
Bottle ID	A		

Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
M3PFHxS		FR060925012				20-150%	94.7%	
M2-6:2 FTS		FR060925012				20-150%	157%	Q
M8PFOA		FR060925012				20-150%	94.3%	
M9PFNA		FR060925012				20-150%	93.6%	
M8PFOS		FR060925012				20-150%	86.8%	
M2-8:2 FTS		FR060925012				20-150%	134%	
M8FOSA-I		FR060925012				20-150%	79.8%	
M6PFDA		FR060925012				20-150%	95.7%	
d3-N-MeFOSAA		FR060925012				20-150%	125%	
d5-N-EtFOSAA		FR060925012				20-150%	134%	
M7PFUdA		FR060925012				20-150%	94.3%	
MPFDoA		FR060925012				20-150%	82.2%	
M2PFTeDA		FR060925012				20-150%	39.1%	
d3-N-MeFOSA		FR060925012				10-200%	10.4%	
d5-N-EtFOSA		FR060925012				10-200%	8.84%	Q
d7-N-MeFOSE		FR060925012				10-200%	39.4%	
d9-N-EtFOSE		FR060925012				10-200%	32.2%	

# Enthalpy Analytical

Job No.: 0825-776-1 PFAS by Isotope Dilution (non-potable water)  
 Brunswick County Public Utilities - NC NORTHWEST WATER PLANT LELAND N.C

## Details

Sample Name	080825-EO1	Prep Batch	EU118727
Sampling Site		Analyst	jogres
Enthalpy ID	0825-776-002-1	Instrument	Jetfire
Matrix	aqueous	Sample Vol mL	0.1
Sampling Date	2025-08-08 13:25	Extract Vol mL	0.2
Received Date	2025-08-08	Split Factor	N/A
Prep Date	2025-09-02 15:30	Method Code	EU-047-NPW
AnalysisDate	2025-09-03 02:22		
SampleType	Sample		
Bottle ID	A		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
Acids	PFPrA	422-64-0	J020925-09030222	ND	700	1530			U
ES	13C3-PFPrA		J020925-09030222				20-150%	134%	

# Enthalpy Analytical

Job No.: 0825-776-1 PFAS by Isotope Dilution (non-potable water)  
 Brunswick County Public Utilities - NC NORTHWEST WATER PLANT LELAND N.C

## Details

Sample Name	080825-EO1	Prep Batch	EU118733
Sampling Site		Analyst	ext-magennaef
Enthalpy ID	0825-776-002-1A	Instrument	Frodo
Matrix	aqueous	Sample Vol mL	305.71
Sampling Date	2025-08-08 13:25	Extract Vol mL	0.4
Received Date	2025-08-08	Split Factor	N/A
Prep Date	2025-09-03 10:30	Method Code	EU-047-NPW
AnalysisDate	2025-09-06 19:52		
SampleType	Sample		
Bottle ID	A		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags	
Acids	PFBA	375-22-4	FR060925013	3.02	0.208	0.523				
	PFPeA	2706-90-3	FR060925013	6.38	0.150	0.523				
	PFHxA	307-24-4	FR060925013	4.62	0.175	0.523				
	PFFHpA	375-85-9	FR060925013	1.82	0.183	0.523				
	PFOA	335-67-1	FR060925013	4.20	0.120	0.523				
	PFNA	375-95-1	FR060925013	0.656	0.118	0.523				
	PFDA	335-76-2	FR060925013	0.396	0.150	0.523			J	
	PFUnDA	2058-94-8	FR060925013	0.0689	0.118	0.523			L	
	PFDODA	307-55-1	FR060925013	ND	0.213	0.523			U	
	PFTrDA	72629-94-8	FR060925013	ND	0.173	0.523			U	
	PFTeDA	376-06-7	FR060925013	ND	0.200	0.523			U	
	PFFHxDA	67905-19-5	FR060925013	ND	0.278	0.523			U	
	Sulfonates	PFBS	375-73-5	FR060925013	2.68	0.278	0.523			
PFPeS		2706-91-4	FR060925013	0.542	0.107	0.493				
PFFHxS		355-46-4	FR060925013	2.83	0.404	0.479				
PFFHpS		375-92-8	FR060925013	0.0869	0.254	0.499			L	
PFOS		1763-23-1	FR060925013	10.9	0.276	0.485				
PFNS		68259-12-1	FR060925013	ND	0.162	0.504			U	
PFDS		335-77-3	FR060925013	ND	0.275	0.504			U	
4:2 FTS		757124-72-4	FR060925013	ND	0.0679	0.490			U	
6:2 FTS		27619-97-2	FR060925013	0.0653	0.247	0.499			L	
8:2 FTS		39108-34-4	FR060925013	0.00169	0.117	0.501			L	
10:2 FTS	120226-60-0	FR060925013	ND	0.401	0.523			U		
Sulfonamidos	FBSA	30334-69-1	FR060925013	0.292	0.249	0.523			J	
	N-EiFOSA	4151-50-2	FR060925013	ND	0.324	0.523			U	
	N-EiFOSAA	2991-50-6	FR060925013	0.0561	0.213	0.523			L	
	N-EiFOSE	1691-99-2	FR060925013	ND	0.801	2.36			U	
	N-MeFOSA	31506-32-8	FR060925013	ND	0.216	0.523			U	
	N-MeFOSAA	2355-31-9	FR060925013	ND	0.147	0.523			U	
	N-MeFOSE	24448-09-7	FR060925013	ND	0.497	2.36			U	
	PFOSA	754-91-6	FR060925013	ND	0.0734	0.523			U	
	ADONA	919005-14-4	FR060925013	ND	0.142	0.496			U	
	EVE Acid	69087-46-3	FR060925013	ND	0.167	1.18			U	
PFECAs	HFPO-DA	13252-13-6	FR060925013	2.09	0.0554	0.523				
	Hydro-EVE Acid	773804-62-9	FR060925013	ND	0.172	0.523			U	
	NFDHA	151772-58-6	FR060925013	ND	0.110	0.523			U	
	PEPA	267239-61-2	FR060925013	2.69	0.0981	0.523				
	PFECA-G	801212-59-9	FR060925013	ND	0.0698	0.523			U	
	PFMOAA	674-13-5	FR060925013	5.10	0.265	0.523				
	PFMOBA	863090-89-5	FR060925013	ND	0.878	1.18			U	
	PFMOPrA	377-73-1	FR060925013	0.0849	0.186	0.523			L	
	PFO2HxA	39492-88-1	FR080925031	5.36	0.168	0.523				
	PFO3OA	39492-89-2	FR060925013	ND	0.240	0.523			U	
	PFO4DA	39492-90-5	FR060925013	ND	0.414	2.62			U	
	PFO5DA	39492-91-6	FR060925013	ND	0.419	2.62			U	
	PMPA	13140-29-9	FR080925031	6.65	0.123	0.523				
	R-EVE	2416366-22-6	FR080925031	2.53	0.868	1.18				
	PFESAs	11Cl-PF3OUdS	763051-92-9	FR060925013	ND	0.247	0.493			U
	9Cl-PF3ONS	756426-58-1	FR060925013	ND	0.335	0.488			U	
Hydrolyzed PSDA	2416366-19-1	FR080925031	1.27	0.348	0.523					
Nafion Byproduct 1 (PS Acid)	29311-67-9	FR060925013	ND	0.280	0.523			U		
Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	FR060925013	0.410	0.433	0.523			L		
NVHOS	1132933-86-8	FR080925031	1.37	0.0806	0.523					
PFEESA	113507-82-7	FR060925013	ND	0.157	0.523			U		
R-PSDA	2416366-18-0	FR080925031	2.36	2.31	2.31					
R-PSDCA	2416366-21-5	FR060925013	ND	0.221	0.523			U		
ES	MPFBA		FR060925013				20-150%	58.1%		
	M5PFPeA		FR060925013				20-150%	366%	Q	
	M3PFBS		FR060925013				20-150%	246%	Q	
	M2-4:2 FTS		FR060925013				20-150%	188%	Q	
	M5PFFHxA		FR060925013				20-150%	87.3%		
	M3HFPO-DA		FR060925013				20-150%	65.4%		
	M4PFFHpA		FR060925013				20-150%	95.5%		

# Enthalpy Analytical

Job No.: 0825-776-1 PFAS by Isotope Dilution (non-potable water)  
 Brunswick County Public Utilities - NC NORTHWEST WATER PLANT LELAND N.C

## Details

Sample Name	080825-EO1	Prep Batch	EU118733
Sampling Site		Analyst	ext-magennaef
Enthalpy ID	0825-776-002-1A	Instrument	Frodo
Matrix	aqueous	Sample Vol mL	305.71
Sampling Date	2025-08-08 13:25	Extract Vol mL	0.4
Received Date	2025-08-08	Split Factor	N/A
Prep Date	2025-09-03 10:30	Method Code	EU-047-NPW
AnalysisDate	2025-09-06 19:52		
SampleType	Sample		
Bottle ID	A		

Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
M3PFHxS		FR060925013				20-150%	96.2%	
M2-6:2 FTS		FR060925013				20-150%	156%	Q
M8PFOA		FR060925013				20-150%	93.7%	
M9PFNA		FR060925013				20-150%	92.8%	
M8PFOS		FR060925013				20-150%	88.3%	
M2-8:2 FTS		FR060925013				20-150%	137%	
M8FOSA-I		FR060925013				20-150%	88.7%	
M6PFDA		FR060925013				20-150%	95.2%	
d3-N-MeFOSAA		FR060925013				20-150%	129%	
d5-N-EtFOSAA		FR060925013				20-150%	139%	
M7PFUdA		FR060925013				20-150%	95.2%	
MPFDoA		FR060925013				20-150%	83.1%	
M2PFTeDA		FR060925013				20-150%	47.1%	
d3-N-MeFOSA		FR060925013				10-200%	30.6%	
d5-N-EtFOSA		FR060925013				10-200%	25.2%	
d7-N-MeFOSE		FR060925013				10-200%	48.4%	
d9-N-EtFOSE		FR060925013				10-200%	41.6%	

# QC Data

# Enthalpy Analytical

Job No.: 0825-776-1 PFAS by Isotope Dilution (non-potable water)  
 Brunswick County Public Utilities - NC NORTHWEST WATER PLANT LELAND N.C

## Details

Sample Name	MB_118727_PFAS	Prep Batch	EU118727
Sampling Site		Analyst	jogres
Enthalpy ID	MB_118727_PFAS	Instrument	Jetfire
Matrix	aqueous	Sample Vol mL	0.1
Sampling Date		Extract Vol mL	0.2
Received Date		Split Factor	N/A
Prep Date	2025-09-02 15:30	Method Code	EU-047-NPW
AnalysisDate	2025-09-03 01:00		
SampleType	Blank		
Bottle ID	-		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
Acids	PFPrA	422-64-0	J020925-09030100	ND	700	1530			U
ES	13C3-PFPrA		J020925-09030100				20-150%	129%	

# Enthalpy Analytical

Job No.: 0825-776-1 PFAS by Isotope Dilution (non-potable water)  
 Brunswick County Public Utilities - NC NORTHWEST WATER PLANT LELAND N.C

## Details

Sample Name	MB_118733_PFAS	Prep Batch	EU118733
Sampling Site		Analyst	ext-magennaef
Enthalpy ID	MB_118733_PFAS	Instrument	Frodo
Matrix	aqueous	Sample Vol mL	250
Sampling Date		Extract Vol mL	0.4
Received Date		Split Factor	N/A
Prep Date	2025-09-03 10:30	Method Code	EU-047-NPW
AnalysisDate	2025-09-06 17:12		
SampleType	Blank		
Bottle ID	-		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags	
Acids	PFBA	375-22-4	FR060925006	ND	0.254	0.640			U	
	PFPeA	2706-90-3	FR060925006	ND	0.183	0.640			U	
	PFHxA	307-24-4	FR060925006	ND	0.214	0.640			U	
	PFFHpA	375-85-9	FR060925006	ND	0.224	0.640			U	
	PFOA	335-67-1	FR060925006	ND	0.146	0.640			U	
	PFNA	375-95-1	FR060925006	ND	0.145	0.640			U	
	PFDA	335-76-2	FR060925006	ND	0.183	0.640			U	
	PFUnDA	2058-94-8	FR060925006	ND	0.145	0.640			U	
	PFDODA	307-55-1	FR060925006	ND	0.260	0.640			U	
	PFTrDA	72629-94-8	FR060925006	ND	0.212	0.640			U	
	PFTeDA	376-06-7	FR060925006	ND	0.244	0.640			U	
	PFFhxDA	67905-19-5	FR060925006	ND	0.340	0.640			U	
	Sulfonates	PFBS	375-73-5	FR060925006	ND	0.340	0.640			U
		PFPeS	2706-91-4	FR060925006	ND	0.131	0.603			U
PFFhS		355-46-4	FR060925006	ND	0.494	0.586			U	
PFFHpS		375-92-8	FR060925006	ND	0.310	0.610			U	
PFOS		1763-23-1	FR060925006	ND	0.338	0.593			U	
PFNS		68259-12-1	FR060925006	ND	0.199	0.616			U	
PFDS		335-77-3	FR060925006	ND	0.336	0.616			U	
4:2 FTS		757124-72-4	FR060925006	ND	0.0830	0.600			U	
6:2 FTS		27619-97-2	FR060925006	0.0155	0.302	0.610			L	
8:2 FTS		39108-34-4	FR060925006	0.00151	0.143	0.613			L	
10:2 FTS	120226-60-0	FR060925006	ND	0.490	0.640			U		
Sulfonamidos	FBSA	30334-69-1	FR060925006	ND	0.304	0.640			U	
	N-EiFOSA	4151-50-2	FR060925006	ND	0.396	0.640			U	
	N-EiFOSAA	2991-50-6	FR060925006	ND	0.260	0.640			U	
	N-EiFOSE	1691-99-2	FR060925006	ND	0.980	2.88			U	
	N-MeFOSA	31506-32-8	FR060925006	ND	0.264	0.640			U	
	N-MeFOSAA	2355-31-9	FR060925006	ND	0.180	0.640			U	
	N-MeFOSE	24448-09-7	FR060925006	ND	0.608	2.88			U	
	PFOSA	754-91-6	FR060925006	ND	0.0898	0.640			U	
	PFECAs	ADONA	919005-14-4	FR060925006	ND	0.173	0.606			U
EVE Acid		69087-46-3	FR060925006	ND	0.204	1.44			U	
HFPO-DA		13252-13-6	FR060925006	ND	0.0678	0.640			U	
Hydro-EVE Acid		773804-62-9	FR060925006	ND	0.210	0.640			U	
NFDHA		151772-58-6	FR060925006	ND	0.135	0.640			U	
PEPA		267239-61-2	FR060925006	ND	0.120	0.640			U	
PFECA-G		801212-59-9	FR060925006	ND	0.0854	0.640			U	
PFMOAA		674-13-5	FR060925006	ND	0.324	0.640			U	
PFMOBA		863090-89-5	FR060925006	ND	1.07	1.44			U	
PFMOPrA		377-73-1	FR060925006	ND	0.228	0.640			U	
PFO2HxA		39492-88-1	FR080925027	ND	0.206	0.640			U	
PFO3OA		39492-89-2	FR060925006	ND	0.294	0.640			U	
PFO4DA		39492-90-5	FR060925006	ND	0.506	3.20			U	
PFO5DA		39492-91-6	FR060925006	ND	0.512	3.20			U	
PMPA		13140-29-9	FR080925027	ND	0.151	0.640			U	
R-EVE		2416366-22-6	FR080925027	ND	1.06	1.44			U	
PFESAs		11Cl-PF3OUdS	763051-92-9	FR060925006	ND	0.302	0.603			U
	9Cl-PF3ONS	756426-58-1	FR060925006	ND	0.410	0.596			U	
	Hydrolyzed PSDA	2416366-19-1	FR080925027	ND	0.426	0.640			U	
	Nafion Byproduct 1 (PS Acid)	29311-67-9	FR060925006	ND	0.342	0.640			U	
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	FR060925006	ND	0.530	0.640			U	
	NVHOS	1132933-86-8	FR080925027	ND	0.0986	0.640			U	
	PFEESA	113507-82-7	FR060925006	ND	0.192	0.640			U	
	R-PSDA	2416366-18-0	FR080925027	ND	2.82	2.82			U	
ES	R-PSDCA	2416366-21-5	FR060925006	ND	0.270	0.640			U	
	MPFBA		FR060925006				20-150%	91.9%		
	M5PFPeA		FR060925006				20-150%	193%	Q	
	M3PFBS		FR060925006				20-150%	89.4%		
	M2-4:2 FTS		FR060925006				20-150%	193%	Q	
	M5PFFhxA		FR060925006				20-150%	97.5%		
	M3HFPO-DA		FR060925006				20-150%	60.2%		
M4PFFHpA		FR060925006				20-150%	95.8%			

# Enthalpy Analytical

Job No.: 0825-776-1 PFAS by Isotope Dilution (non-potable water)  
 Brunswick County Public Utilities - NC NORTHWEST WATER PLANT LELAND N.C

## Details

Sample Name	MB_118733_PFAS	Prep Batch	EU118733
Sampling Site		Analyst	ext-magennaef
Enthalpy ID	MB_118733_PFAS	Instrument	Frodo
Matrix	aqueous	Sample Vol mL	250
Sampling Date		Extract Vol mL	0.4
Received Date		Split Factor	N/A
Prep Date	2025-09-03 10:30	Method Code	EU-047-NPW
AnalysisDate	2025-09-06 17:12		
SampleType	Blank		
Bottle ID	-		

Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
M3PFHxS		FR060925006				20-150%	93.6%	
M2-6:2 FTS		FR060925006				20-150%	149%	
M8PFOA		FR060925006				20-150%	92.9%	
M9PFNA		FR060925006				20-150%	94.8%	
M8PFOS		FR060925006				20-150%	83.4%	
M2-8:2 FTS		FR060925006				20-150%	131%	
M8FOSA-I		FR060925006				20-150%	81.0%	
M6PFDA		FR060925006				20-150%	94.5%	
d3-N-MeFOSAA		FR060925006				20-150%	123%	
d5-N-EtFOSAA		FR060925006				20-150%	134%	
M7PFUdA		FR060925006				20-150%	90.7%	
MPFDoA		FR060925006				20-150%	81.0%	
M2PFTeDA		FR060925006				20-150%	55.0%	
d3-N-MeFOSA		FR060925006				10-200%	17.4%	
d5-N-EtFOSA		FR060925006				10-200%	16.6%	
d7-N-MeFOSE		FR060925006				10-200%	44.1%	
d9-N-EtFOSE		FR060925006				10-200%	41.5%	

# Enthalpy Analytical

Job No.: 0825-776-1 PFAS by Isotope Dilution (non-potable water)  
 Brunswick County Public Utilities - NC NORTHWEST WATER PLANT LELAND N.C

## Details

Sample Name	OPR_118727_PFAS	Prep Batch	EU118727
Sampling Site		Analyst	jogres
Enthalpy ID	OPR_118727_PFAS	Instrument	Jetfire
Matrix	aqueous	Sample Vol mL	0.1
Sampling Date		Extract Vol mL	0.2
Received Date		Split Factor	N/A
Prep Date	2025-09-02 15:30	Method Code	EU-047-NPW
AnalysisDate	2025-09-03 01:12		
SampleType	Control		
Bottle ID	-		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
Acids	PFPrA	422-64-0	J020925-09030112	30700	700	1530	40-150%	153%	Q
ES	13C3-PFPrA		J020925-09030112				20-150%	112%	

# Enthalpy Analytical

Job No.: 0825-776-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC NORTHWEST WATER PLANT LELAND N.C

Enthalpy ID	OPR_118733_PFAS	Prep Batch	EU118733	Sample Vol (mL)	250
Sample Name	OPR_118733_PFAS	Prep Date	2025-09-03 10:30	Extract Vol (mL)	0.4
Matrix	aqueous	Analysis Date	2025-09-06 17:35	Split Factor	N/A
Sampling Date		Analyst	ext-magennaef	Method Code	EU-047-NPW
Received Date		Instrument	Frodo	Sample Type	Control
		Bottle ID	-		

	Compound	CAS	InjFileName	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags	
Acids	PFBA	375-22-4	FR060925007	16.3	0.254	0.640	47.9-144%	81.6%		
	PFPeA	2706-90-3	FR060925007	16.5	0.183	0.640	41.7-159%	82.7%		
	PFHxA	307-24-4	FR060925007	16.8	0.214	0.640	43.2-154%	84.2%		
	PFHpA	375-85-9	FR060925007	16.9	0.224	0.640	42.1-155%	84.3%		
	PFOA	335-67-1	FR060925007	17.0	0.146	0.640	51.1-148%	84.8%		
	PFNA	375-95-1	FR060925007	17.2	0.145	0.640	51.6-153%	86.2%		
	PFDA	335-76-2	FR060925007	16.4	0.183	0.640	44.5-156%	82.0%		
	PFUnDA	2058-94-8	FR060925007	16.8	0.145	0.640	40.3-156%	84.2%		
	PFDoDA	307-55-1	FR060925007	16.8	0.260	0.640	40.4-158%	84.0%		
	PFTeDA	72629-94-8	FR060925007	24.2	0.212	0.640	42.2-201%	121%		
	PFTeDA	376-06-7	FR060925007	19.9	0.244	0.640	43-162%	99.4%		
	Sulfonates	PFBS	375-73-5	FR060925007	14.6	0.340	0.640	42.7-155%	82.0%	
		PFPeS	2706-91-4	FR060925007	14.3	0.131	0.603	40.3-152%	76.2%	
		PFHxS	355-46-4	FR060925007	15.0	0.494	0.586	45-148%	81.9%	
PFHpS		375-92-8	FR060925007	16.8	0.310	0.610	39.8-166%	87.9%		
PFOS		1763-23-1	FR060925007	16.7	0.338	0.593	59.2-132%	90.2%		
PFNS		68259-12-1	FR060925007	16.8	0.199	0.616	38.1-153%	87.3%		
PFDS		335-77-3	FR060925007	15.8	0.336	0.616	28.6-148%	81.9%		
4:2 FTS		757124-72-4	FR060925007	17.9	0.0830	0.600	41.5-157%	95.4%		
6:2 FTS		27619-97-2	FR060925007	16.2	0.302	0.610	44.5-160%	85.3%		
8:2 FTS		39108-34-4	FR060925007	15.9	0.143	0.613	39.4-166%	82.9%		
Sulfonamidos		N-EtFOSA	4151-50-2	FR060925007	24.9	0.396	0.640	26.7-172%	124%	
		N-EtFOSAA	2991-50-6	FR060925007	17.1	0.260	0.640	42.8-156%	85.3%	
	N-EtFOSE	1691-99-2	FR060925007	110	0.980	2.88	38.9-161%	123%		
	N-MeFOSA	31506-32-8	FR060925007	22.7	0.264	0.640	26.4-183%	113%		
	N-MeFOSAA	2355-31-9	FR060925007	17.2	0.180	0.640	42-155%	86.0%		
	N-MeFOSE	24448-09-7	FR060925007	106	0.608	2.88	37.6-155%	118%		
	PFOSA	754-91-6	FR060925007	16.7	0.0898	0.640	39.1-158%	83.7%		
	PFECAs	ADONA	919005-14-4	FR060925007	16.6	0.173	0.606	32.2-151%	82.8%	
HFPO-DA		13252-13-6	FR060925007	16.5	0.0678	0.640	61.8-131%	82.5%		
PFESAs	11Cl-PF3OUdS	763051-92-9	FR060925007	15.7	0.302	0.603	21.8-141%	78.7%		
	9Cl-PF3ONS	756426-58-1	FR060925007	16.3	0.410	0.596	37.6-146%	81.3%		
ES	MPFBA		FR060925007				20-150%	97.7%		
	M5PFPeA		FR060925007				20-150%	216%	Q	
	M3PFBS		FR060925007				20-150%	114%		
	M2-4:2 FTS		FR060925007				20-150%	190%	Q	
	M5PFHxA		FR060925007				20-150%	101%		
	M3HFPO-DA		FR060925007				20-150%	64.1%		
	M4PFHpA		FR060925007				20-150%	95.3%		
	M3PFHxS		FR060925007				20-150%	98.4%		
	M2-6:2 FTS		FR060925007				20-150%	151%	Q	
	M8PFOA		FR060925007				20-150%	89.5%		
	M9PFNA		FR060925007				20-150%	87.6%		
	M8PFOS		FR060925007				20-150%	85.2%		
	M2-8:2 FTS		FR060925007				20-150%	128%		
	M8FOSA-I		FR060925007				20-150%	73.0%		
	M6PFDA		FR060925007				20-150%	91.4%		
	d3-N-MeFOSAA		FR060925007				20-150%	120%		
	d5-N-EtFOSAA		FR060925007				20-150%	131%		
	M7PFUdA		FR060925007				20-150%	89.0%		
	MPFDcA		FR060925007				20-150%	82.4%		
	M2PFTeDA		FR060925007				20-150%	53.8%		
	d3-N-MeFOSA		FR060925007				10-200%	3.24%	Q	
	d5-N-EtFOSA		FR060925007				10-200%	2.88%	Q	
	d7-N-MeFOSE		FR060925007				10-200%	45.3%		
d9-N-EtFOSE		FR060925007				10-200%	42.2%			

# Sample Custody



JOB ID:

Date / Time: 8/8/25 14:10

Initials: J.A.J

OR

Client: Brunswick

Cooler  of

Temp °C:

Thermometer ID:

- Received via
- FedEx
- UPS
- DHL
- USPS
- Courier
- Other

*Check one*

On ice:

Melted ice:

Ambient:

*Check one*

in a Box:

in a Cooler:

Cooler in Box:

	Yes	No
Cooler seals:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample seals:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Good condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comment:

Cooler  of

Temp °C:

Thermometer ID:

- Received via
- FedEx
- UPS
- DHL
- USPS
- Courier
- Other

*Check one*

On ice:

Melted ice:

Ambient:

*Check one*

in a Box:

in a Cooler:

Cooler in Box:

	Yes	No
Cooler seals:	<input type="checkbox"/>	<input type="checkbox"/>
Sample seals:	<input type="checkbox"/>	<input type="checkbox"/>
Good condition:	<input type="checkbox"/>	<input type="checkbox"/>

Comment:

Cooler  of

Temp °C:

Thermometer ID:

- Received via
- FedEx
- UPS
- DHL
- USPS
- Courier
- Other

*Check one*

On ice:

Melted ice:

Ambient:

*Check one*

in a Box:

in a Cooler:

Cooler in Box:

	Yes	No
Cooler seals:	<input type="checkbox"/>	<input type="checkbox"/>
Sample seals:	<input type="checkbox"/>	<input type="checkbox"/>
Good condition:	<input type="checkbox"/>	<input type="checkbox"/>

Comment: