Brunswick County Public Utilities - NC

PO Box 249
Bolivia, NC 28422-0249

LELAND N.C.

Client Project# 211 WATER PLANT
Samples Received: 3/31/2025

Analytical Report
0325-1224

PFAS by Isotope Dilution (non-potable water)

Report Issue Date: 5/7/2025

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 75 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:

Laura Boivin, QA Associate II

ENTHALPY ANALYTICAL

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Narrative Summary

Enthalpy Analytical Narrative Summary

Company	Brunswick County Public Utilities - NC
Job No.	0325-1224-1
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1. Custody

Meredith Curtis received the samples as part of a sampling group contained in two separate coolers at 7.8 °C and 7.7 °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
0325-1224-001-1	033125-WGA	aqueous	2025-03-31
0325-1224-001-1A	033125-WGA	aqueous	2025-03-31
0325-1224-002-1	033125-W5	aqueous	2025-03-31
0325-1224-002-1A	033125-W5	aqueous	2025-03-31
0325-1224-003-1	033125-W3	aqueous	2025-03-31
0325-1224-003-1A	033125-W3	aqueous	2025-03-31
0325-1224-004-1	033125-W1	aqueous	2025-03-31
0325-1224-004-1A	033125-W1	aqueous	2025-03-31
0325-1224-005-1	033125-W2	aqueous	2025-03-31
0325-1224-005-1A	033125-W2	aqueous	2025-03-31
0325-1224-006-1	033125-W16	aqueous	2025-03-31
0325-1224-006-1A	033125-W16	aqueous	2025-03-31
0325-1224-007-1	033125-W17	aqueous	2025-03-31
0325-1224-007-1A	033125-W17	aqueous	2025-03-31
0325-1224-008-1	033125-W18	aqueous	2025-03-31
0325-1224-008-1A	033125-W18	aqueous	2025-03-31
0325-1224-009-1	033125-W19	aqueous	2025-03-31
0325-1224-009-1A	033125-W19	aqueous	2025-03-31
0325-1224-010-1	033125-W15	aqueous	2025-03-31
0325-1224-010-1A	033125-W15	aqueous	2025-03-31
0325-1224-011-1	033125-W8	aqueous	2025-03-31
0325-1224-011-1A	033125-W8	aqueous	2025-03-31
0325-1224-012-1	033125-W12A	aqueous	2025-03-31
0325-1224-012-1A	033125-W12A	aqueous	2025-03-31
0325-1224-013-1	033125-W12	aqueous	2025-03-31
0325-1224-013-1A	033125-W12	aqueous	2025-03-31
0325-1224-014-1	033125-W11	aqueous	2025-03-31
0325-1224-014-1A	033125-W11	aqueous	2025-03-31
0325-1224-015-1	033125-S02	aqueous	2025-03-31
0325-1224-015-1A	033125-S02	aqueous	2025-03-31
0325-1224-016-1	033125-E02	aqueous	2025-03-31
0325-1224-016-1A	033125-E02	aqueous	2025-03-31

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.

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Table 3 - Methods and Analytes

EU Method	Analytes	Cleanup Method
EU047	Brunswick List	ENVI-Carb

3. Analysis

The samples were analyzed by direct injection using Sciex Triple Quad 7500 (LC/MS/MS "Bumblebee") for PFPrA.

The samples were analyzed using Waters Acquity UPLC equipped with Xevo TQ MS (LC/MS/MS "Sauron") and using Waters Acquity UPLC equipped with Xevo TQ MS (LC/MS/MS "Frodo") for the remainder of the analytes of interest.

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

Select sample(s) were analyzed on more than one analytical sequence in order to meet method acceptance criteria.

4. Calibration

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

5. QC Notes

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

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

QC samples that did not meet method acceptance criteria were:

• MB_19216_PFAS (M2PFTeDA, d3-N-MeFOSA, d5-N-EtFOSA)
• OPR_19216_PFAS (PFTrDA, M2PFTeDA, d3-N-MeFOSA, d5-N-EtFOSA)

PFTrDA exceeded method recovery criteria in Ongoing Precision Recovery (OPR) QC sample. Impacted analyte was ND>LOQ in the samples; therefore, the data is reportable without adverse impact.

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.

- 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*
Target Analytes								
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
PFEESA	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			
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; 2,2,3,3,4,5,5,5-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
PFODA	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.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities

NC 211 WATER PLANT LELAND N.C.

Summary

	Compound	CAS	033125-WGA ng/L	033125-W5 ng/L	033125-W3 ng/L	033125-W1 ng/L	033125-W2 ng/L
Acids	PFPrA	422-64-0	409 L	405 L	417 L	426 L	417 L
	PFBA	375-22-4	ND U	ND U	ND U	ND U	ND U
	PFPeA	2706-90-3	ND U	ND U	ND U	ND U	ND U
	PFHxA	307-24-4	0.515 J	ND U	ND U	0.108 L	ND U
	PFHpA	375-85-9	0.247 J	ND U	ND U	ND U	ND U
	PFOA	335-67-1	0.287 J	ND U	ND U	0.00384 L	ND U
	PFNA	375-95-1	ND U	ND U	ND U	ND U	ND U
	PFDA	335-76-2	ND U	ND U	ND U	ND U	ND U
	PFUnDA	2058-94-8	ND U	ND U	ND U	ND U	ND U
	PFDoDA	307-55-1	ND U	ND U	ND U	ND U	ND U
	PFTrDA	72629-94-8	ND U	ND U	ND U	ND U	ND U
	PFTeDA	376-06-7	ND U	ND U	ND U	ND U	ND U
	PFHxDA	67905-19-5	ND U	ND U	ND U	ND U	ND U
Sulfonates	PFBS	375-73-5	0.168 L	ND U	ND U	0.210 L	ND U
	PFPeS	2706-91-4	ND U	ND U	ND U	ND U	ND U
	PFHxS	355-46-4	ND U	ND U	ND U	ND U	ND U
	PFHpS	375-92-8	ND U	ND U	ND U	ND U	ND U
	PFOS	1763-23-1	ND U	ND U	ND U	ND U	ND U
	PFNS	68259-12-1	ND U	ND U	ND U	ND U	ND U
	PFDS	335-77-3	ND U	ND U	ND U	ND U	ND U
	4:2 FTS	757124-72-4	ND U	ND U	ND U	ND U	ND U
	6:2 FTS	27619-97-2	ND U	ND U	ND U	ND U	ND U
	8:2 FTS	39108-34-4	0.0109 L	ND U	ND U	0.0345 L	0.0199 L
	10:2 FTS	120226-60-0	ND U	ND U	ND U	ND U	ND U
Sulfonamidos	FBSA	30334-69-1	ND U	ND U	ND U	ND U	ND U
	N-EtFOSA	4151-50-2	ND U	ND U	ND U	ND U	ND U
	N-EtFOSAA	2991-50-6	ND U	ND U	ND U	ND U	ND U
	N-EtFOSE	1691-99-2	ND U	ND U	ND U	ND U	ND U
	N-MeFOSA	31506-32-8	ND U	ND U	ND U	ND U	ND U
	N-MeFOSAA	2355-31-9	ND U	ND U	ND U	ND U	ND U
	N-MeFOSE	24448-09-7	ND U	ND U	ND U	ND U	ND U
	PFOSA	754-91-6	ND U	ND U	ND U	ND U	ND U
PFECAs	ADONA	919005-14-4	ND U	ND U	ND U	ND U	ND U
	EVE Acid	69087-46-3	ND U	ND U	ND U	ND U	ND U
	HFPO-DA	13252-13-6	0.234 J	ND U	ND U	0.149 J	ND U
	Hydro-EVE Acid	773804-62-9	ND U	ND U	ND U	ND U	ND U
	NFDHA	151772-58-6	ND U	ND U	ND U	ND U	ND U
	PEPA	267239-61-2	ND U	ND U	ND U	ND U	ND U
	PFECA-G	801212-59-9	ND U	ND U	ND U	ND U	ND U
	PFMOAA	674-13-5	18.5	0.271 L	ND U	2.34	ND U
	PFMOBA	863090-89-5	ND U	ND U	ND U	ND U	ND U
	PFMOPrA	377-73-1	ND U	ND U	ND U	ND U	ND U
	PFO2HxA	39492-88-1	0.930	ND U	ND U	ND U	ND U
	PFO3OA	39492-89-2	ND U	ND U	ND U	ND U	ND U
	PFO4DA	39492-90-5	ND U	ND U	ND U	ND U	ND U
	PFO5DA	39492-91-6	ND U	ND U	ND U	ND U	ND U
	PMPA	13140-29-9	0.346 J	ND U	ND U	1.14	0.220 J
	R-EVE	2416366-22-6	ND U	ND U	ND U	ND U	ND U
PFESAs	11Cl-PF3OUdS	763051-92-9	ND U	ND U	ND U	ND U	ND U
	9Cl-PF3ONS	756426-58-1	ND U	ND U	ND U	ND U	ND U
	Hydrolyzed PSDA	2416366-19-1	ND U	ND U	ND U	ND U	ND U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	ND U	ND U	ND U	ND U	ND U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	ND U	ND U	ND U	ND U	ND U
	NVHOS	1132933-86-8	ND U	ND U	ND U	ND U	ND U
	PFEESA	113507-82-7	ND U	ND U	ND U	ND U	ND U
	R-PSDA	2416366-18-0	ND U	ND U	ND U	ND U	ND U
	R-PSDCA	2416366-21-5	ND U	ND U	ND U	ND U	ND U

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)
Brunswick County Public Utilities
NC 211 WATER PLANT LELAND N.C.

Summary

	Compound	CAS	033125-W16 ng/L	033125-W17 ng/L	033125-W18 ng/L	033125-W19 ng/L	033125-W15 ng/L
Acids	PFPrA	422-64-0	413 L	410 L	408 L	411 L	413 L
	PFBA	375-22-4	ND U	ND U	ND U	ND U	ND U
	PFPeA	2706-90-3	ND U	ND U	ND U	ND U	ND U
	PFHxA	307-24-4	ND U	ND U	ND U	ND U	0.0763 L
	PFHpA	375-85-9	ND U	ND U	ND U	ND U	ND U
	PFOA	335-67-1	ND U	ND U	ND U	ND U	0.0371 L
	PFNA	375-95-1	ND U	ND U	ND U	ND U	ND U
	PFDA	335-76-2	ND U	ND U	ND U	ND U	ND U
	PFUnDA	2058-94-8	ND U	ND U	ND U	ND U	ND U
	PFDoDA	307-55-1	ND U	ND U	ND U	ND U	ND U
	PFTrDA	72629-94-8	ND U	ND U	ND U	ND U	ND U
	PFTeDA	376-06-7	ND U	ND U	ND U	ND U	ND U
	PFHxDA	67905-19-5	ND U	ND U	ND U	ND U	ND U
Sulfonates	PFBS	375-73-5	ND U	ND U	ND U	ND U	ND U
	PFPeS	2706-91-4	ND U	ND U	ND U	ND U	ND U
	PFHxS	355-46-4	ND U	ND U	ND U	ND U	ND U
	PFHpS	375-92-8	ND U	ND U	ND U	ND U	ND U
	PFOS	1763-23-1	ND U	ND U	ND U	ND U	ND U
	PFNS	68259-12-1	ND U	ND U	ND U	ND U	ND U
	PFDS	335-77-3	ND U	ND U	ND U	ND U	ND U
	4:2 FTS	757124-72-4	ND U	ND U	ND U	ND U	ND U
	6:2 FTS	27619-97-2	ND U	ND U	ND U	ND U	ND U
	8:2 FTS	39108-34-4	ND U	0.00894 L	ND U	ND U	ND U
	10:2 FTS	120226-60-0	ND U	ND U	ND U	ND U	ND U
Sulfonamidos	FBSA	30334-69-1	ND U	ND U	ND U	ND U	ND U
	N-EtFOSA	4151-50-2	ND U	ND U	ND U	ND U	ND U
	N-EtFOSAA	2991-50-6	ND U	ND U	ND U	ND U	ND U
	N-EtFOSE	1691-99-2	ND U	ND U	ND U	ND U	ND U
	N-MeFOSA	31506-32-8	ND U	ND U	ND U	ND U	ND U
	N-MeFOSAA	2355-31-9	ND U	ND U	ND U	ND U	ND U
	N-MeFOSE	24448-09-7	ND U	ND U	ND U	ND U	ND U
	PFOSA	754-91-6	ND U	ND U	ND U	ND U	0.274 J
PFECAs	ADONA	919005-14-4	ND U	ND U	ND U	ND U	ND U
	EVE Acid	69087-46-3	ND U	ND U	ND U	ND U	ND U
	HFPO-DA	13252-13-6	ND U	ND U	ND U	ND U	ND U
	Hydro-EVE Acid	773804-62-9	ND U	ND U	ND U	ND U	ND U
	NFDHA	151772-58-6	ND U	ND U	ND U	ND U	ND U
	PEPA	267239-61-2	ND U	ND U	ND U	ND U	ND U
	PFECA-G	801212-59-9	ND U	ND U	ND U	ND U	ND U
	PFMOAA	674-13-5	ND U	ND U	ND U	ND U	1.05
	PFMOBA	863090-89-5	ND U	ND U	ND U	ND U	ND U
	PFMOPrA	377-73-1	ND U	ND U	ND U	ND U	ND U
	PFO2HxA	39492-88-1	ND U	ND U	ND U	ND U	ND U
	PFO3OA	39492-89-2	ND U	ND U	ND U	ND U	ND U
	PFO4DA	39492-90-5	ND U	ND U	ND U	ND U	ND U
	PFO5DA	39492-91-6	ND U	ND U	ND U	ND U	ND U
	PMPA	13140-29-9	0.430 J	ND U	ND U	ND U	0.890
	R-EVE	2416366-22-6	ND U	ND U	ND U	ND U	ND U
PFESAs	11Cl-PF3OUdS	763051-92-9	ND U	ND U	ND U	ND U	ND U
	9Cl-PF3ONS	756426-58-1	ND U	ND U	ND U	ND U	ND U
	Hydrolyzed PSDA	2416366-19-1	ND U	ND U	ND U	ND U	ND U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	ND U	ND U	ND U	ND U	ND U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	ND U	ND U	ND U	ND U	ND U
	NVHOS	1132933-86-8	ND U	ND U	ND U	ND U	ND U
	PFEESA	113507-82-7	ND U	ND U	ND U	ND U	ND U
	R-PSDA	2416366-18-0	ND U	ND U	ND U	ND U	ND U
	R-PSDCA	2416366-21-5	ND U	ND U	ND U	ND U	ND U

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities

NC 211 WATER PLANT LELAND N.C.

Summary

	Compound	CAS	033125-W8 ng/L	033125-W12A ng/L	033125-W12 ng/L	033125-W11 ng/L	033125-S02 ng/L
Acids	PFPrA	422-64-0	411 L	429 L	414 L	416 L	408 L
	PFBA	375-22-4	ND U	ND U	ND U	ND U	ND U
	PFPeA	2706-90-3	ND U	ND U	ND U	ND U	ND U
	PFHxA	307-24-4	ND U	ND U	0.134 L	0.128 L	ND U
	PFHpA	375-85-9	ND U	ND U	ND U	ND U	ND U
	PFOA	335-67-1	ND U	ND U	0.122 L	0.00201 L	ND U
	PFNA	375-95-1	ND U	ND U	ND U	ND U	ND U
	PFDA	335-76-2	ND U	ND U	ND U	ND U	ND U
	PFUnDA	2058-94-8	ND U	ND U	ND U	ND U	ND U
	PFDoDA	307-55-1	ND U	ND U	ND U	ND U	ND U
	PFTrDA	72629-94-8	ND U	ND U	ND U	ND U	ND U
	PFTeDA	376-06-7	ND U	ND U	ND U	ND U	ND U
	PFHxDA	67905-19-5	ND U	ND U	ND U	ND U	ND U
Sulfonates	PFBS	375-73-5	ND U	ND U	ND U	ND U	ND U
	PFPeS	2706-91-4	ND U	ND U	ND U	ND U	ND U
	PFHxS	355-46-4	ND U	ND U	0.868	ND U	ND U
	PFHpS	375-92-8	ND U	ND U	ND U	ND U	ND U
	PFOS	1763-23-1	ND U	ND U	4.52	ND U	ND U
	PFNS	68259-12-1	ND U	ND U	ND U	ND U	ND U
	PFDS	335-77-3	ND U	ND U	ND U	ND U	ND U
	4:2 FTS	757124-72-4	ND U	ND U	ND U	ND U	ND U
	6:2 FTS	27619-97-2	ND U	ND U	ND U	ND U	ND U
	8:2 FTS	39108-34-4	0.00431 L	ND U	ND U	ND U	ND U
	10:2 FTS	120226-60-0	ND U	ND U	ND U	ND U	ND U
Sulfonamidos	FBSA	30334-69-1	ND U	ND U	ND U	ND U	ND U
	N-EtFOSA	4151-50-2	ND U	ND U	ND U	ND U	ND U
	N-EtFOSAA	2991-50-6	ND U	ND U	ND U	ND U	ND U
	N-EtFOSE	1691-99-2	ND U	ND U	ND U	ND U	ND U
	N-MeFOSA	31506-32-8	ND U	ND U	ND U	ND U	ND U
	N-MeFOSAA	2355-31-9	ND U	ND U	ND U	ND U	ND U
	N-MeFOSE	24448-09-7	ND U	ND U	ND U	ND U	ND U
	PFOSA	754-91-6	ND U	ND U	ND U	ND U	ND U
PFECAs	ADONA	919005-14-4	ND U	ND U	ND U	ND U	ND U
	EVE Acid	69087-46-3	ND U	ND U	ND U	ND U	ND U
	HFPO-DA	13252-13-6	ND U	0.0402 L	0.0872 J	0.0774 J	ND U
	Hydro-EVE Acid	773804-62-9	ND U	ND U	ND U	ND U	ND U
	NFDHA	151772-58-6	ND U	ND U	ND U	ND U	ND U
	PEPA	267239-61-2	ND U	ND U	ND U	ND U	ND U
	PFECA-G	801212-59-9	ND U	ND U	ND U	ND U	ND U
	PFMOAA	674-13-5	ND U	3.65	14.7	8.16	0.996
	PFMOBA	863090-89-5	ND U	ND U	ND U	ND U	ND U
	PFMOPrA	377-73-1	ND U	ND U	ND U	ND U	ND U
	PFO2HxA	39492-88-1	ND U	ND U	ND U	ND U	ND U
	PFO3OA	39492-89-2	ND U	ND U	ND U	ND U	ND U
	PFO4DA	39492-90-5	ND U	ND U	ND U	ND U	ND U
	PFO5DA	39492-91-6	ND U	ND U	ND U	ND U	ND U
	PMPA	13140-29-9	ND U	0.297 J	0.416 J	ND U	ND U
	R-EVE	2416366-22-6	ND U	ND U	ND U	ND U	ND U
PFESAs	11Cl-PF3OUdS	763051-92-9	ND U	ND U	ND U	ND U	ND U
	9Cl-PF3ONS	756426-58-1	ND U	ND U	ND U	ND U	ND U
	Hydrolyzed PSDA	2416366-19-1	ND U	ND U	ND U	ND U	ND U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	ND U	ND U	ND U	ND U	ND U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	ND U	ND U	ND U	ND U	ND U
	NVHOS	1132933-86-8	ND U	ND U	ND U	ND U	ND U
	PFEESA	113507-82-7	ND U	ND U	ND U	ND U	ND U
	R-PSDA	2416366-18-0	ND U	ND U	ND U	ND U	ND U
	R-PSDCA	2416366-21-5	ND U	ND U	ND U	ND U	ND U

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)
Brunswick County Public Utilities
NC 211 WATER PLANT LELAND N.C.

Summary

	Compound	CAS	033125-E02 ng/L
Acids	PFPrA	422-64-0	417 L
	PFBA	375-22-4	ND U
	PFPeA	2706-90-3	ND U
	PFHxA	307-24-4	ND U
	PFHpA	375-85-9	ND U
	PFOA	335-67-1	ND U
	PFNA	375-95-1	ND U
	PFDA	335-76-2	ND U
	PFUnDA	2058-94-8	ND U
	PFDoDA	307-55-1	ND U
	PFTrDA	72629-94-8	ND U
	PFTeDA	376-06-7	ND U
	PFHxDA	67905-19-5	ND U
Sulfonates	PFBS	375-73-5	ND U
	PFPeS	2706-91-4	ND U
	PFHxS	355-46-4	ND U
	PFHpS	375-92-8	ND U
	PFOS	1763-23-1	ND U
	PFNS	68259-12-1	ND U
	PFDS	335-77-3	ND U
	4:2 FTS	757124-72-4	ND U
	6:2 FTS	27619-97-2	ND U
	8:2 FTS	39108-34-4	0.0309 L
	10:2 FTS	120226-60-0	ND U
Sulfonamidos	FBSA	30334-69-1	ND U
	N-EtFOSA	4151-50-2	ND U
	N-EtFOSAA	2991-50-6	ND U
	N-EtFOSE	1691-99-2	ND U
	N-MeFOSA	31506-32-8	ND U
	N-MeFOSAA	2355-31-9	ND U
	N-MeFOSE	24448-09-7	ND U
	PFOSA	754-91-6	ND U
PFECAs	ADONA	919005-14-4	ND U
	EVE Acid	69087-46-3	ND U
	HFPO-DA	13252-13-6	ND U
	Hydro-EVE Acid	773804-62-9	ND U
	NFDHA	151772-58-6	ND U
	PEPA	267239-61-2	ND U
	PFECA-G	801212-59-9	ND U
	PFMOAA	674-13-5	0.885
	PFMOBA	863090-89-5	ND U
	PFMOPrA	377-73-1	ND U
	PFO2HxA	39492-88-1	ND U
	PFO3OA	39492-89-2	ND U
	PFO4DA	39492-90-5	ND U
	PFO5DA	39492-91-6	ND U
	PMPA	13140-29-9	ND U
	R-EVE	2416366-22-6	ND U
PFESAs	11Cl-PF3OUdS	763051-92-9	ND U
	9Cl-PF3ONS	756426-58-1	ND U
	Hydrolyzed PSDA	2416366-19-1	ND U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	ND U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	ND U
	NVHOS	1132933-86-8	ND U
	PFEESA	113507-82-7	ND U
	R-PSDA	2416366-18-0	ND U
	R-PSDCA	2416366-21-5	ND U

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-WGA		
Sampling Site			
Enthalpy ID	0325-1224-001-1	Prep Batch	EU19211
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 07:55	Instrument	Bumblebee
Received Date	2025-03-31	Sample Vol mL	0.1
Prep Date	2025-04-04 08:09	Extract Vol mL	0.2
AnalysisDate	2025-04-09 14:35	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	B090425-04091435	409	700	1530			L
ES	13C3-PFPrA		B090425-04091435				20-150%	84.1%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-WGA		
Sampling Site			
Enthalpy ID	0325-1224-001-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 07:55	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	279.8
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-29 21:25	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	FR290425027	ND	0.227	0.572			U
	PFPeA	2706-90-3	FR290425027	ND	0.164	0.572			U
	PFHxA	307-24-4	FR290425027	0.515	0.191	0.572			J
	PFHpA	375-85-9	S300425022	0.247	0.200	0.572			J
	PFOA	335-67-1	FR290425027	0.287	0.131	0.572			J
	PFNA	375-95-1	FR290425027	ND	0.129	0.572			U
	PFDA	335-76-2	FR290425027	ND	0.164	0.572			U
	PFUnDA	2058-94-8	FR290425027	ND	0.129	0.572			U
	PFDoDA	307-55-1	FR290425027	ND	0.232	0.572			U
	PFTrDA	72629-94-8	FR290425027	ND	0.189	0.572			U
	PFTeDA	376-06-7	FR290425027	ND	0.218	0.572			U
	PFHxDA	67905-19-5	FR290425027	ND	0.304	0.572			U
Sulfonates	PFBS	375-73-5	FR290425027	0.168	0.304	0.572			L
	PFPeS	2706-91-4	FR290425027	ND	0.117	0.539			U
	PFHxS	355-46-4	FR290425027	ND	0.441	0.524			U
	PFHpS	375-92-8	FR290425027	ND	0.277	0.545			U
	PFOS	1763-23-1	S300425022	ND	0.302	0.530			U
	PFNS	68259-12-1	FR290425027	ND	0.177	0.551			U
	PFDS	335-77-3	FR290425027	ND	0.300	0.551			U
	4:2 FTS	757124-72-4	S300425022	ND	0.0742	0.536			U
	6:2 FTS	27619-97-2	FR290425027	ND	0.270	0.545			U
	8:2 FTS	39108-34-4	FR290425027	0.0109	0.128	0.548			L
	10:2 FTS	120226-60-0	FR290425027	ND	0.438	0.572			U
Sulfonamidos	FBSA	30334-69-1	FR290425027	ND	0.272	0.572			U
	N-EtFOSA	4151-50-2	FR290425027	ND	0.354	0.572			U
	N-EtFOSAA	2991-50-6	FR290425027	ND	0.232	0.572			U
	N-EtFOSE	1691-99-2	FR290425027	ND	0.876	2.57			U
	N-MeFOSA	31506-32-8	FR290425027	ND	0.236	0.572			U
	N-MeFOSAA	2355-31-9	FR290425027	ND	0.161	0.572			U
	N-MeFOSE	24448-09-7	FR290425027	ND	0.543	2.57			U
	PFOSA	754-91-6	FR290425027	ND	0.0802	0.572			U
PFECAs	ADONA	919005-14-4	FR290425027	ND	0.155	0.542			U
	EVE Acid	69087-46-3	FR290425027	ND	0.182	1.29			U
	HFPO-DA	13252-13-6	FR290425027	0.234	0.0606	0.572			J
	Hydro-EVE Acid	773804-62-9	FR290425027	ND	0.188	0.572			U
	NFDHA	151772-58-6	S300425022	ND	0.120	0.572			U
	PEPA	267239-61-2	FR290425027	ND	0.107	0.572			U
	PFECA-G	801212-59-9	FR290425027	ND	0.0763	0.572			U
	PFMOAA	674-13-5	FR290425027	18.5	0.289	0.572			
	PFMOBA	863090-89-5	FR290425027	ND	0.960	1.29			U
	PFMOPrA	377-73-1	FR290425027	ND	0.204	0.572			U
	PFO2HxA	39492-88-1	FR290425027	0.930	0.184	0.572			
	PFO3OA	39492-89-2	FR290425027	ND	0.263	0.572			U
	PFO4DA	39492-90-5	FR290425027	ND	0.452	2.86			U
	PFO5DA	39492-91-6	S300425022	ND	0.457	2.86			U
	PMPA	13140-29-9	FR290425027	0.346	0.135	0.572			J
	R-EVE	2416366-22-6	FR290425027	ND	0.949	1.29			U
PFESAs	11Cl-PF3OUdS	763051-92-9	S300425022	ND	0.270	0.539			U
	9Cl-PF3ONS	756426-58-1	S300425022	ND	0.366	0.533			U
	Hydrolyzed PSDA	2416366-19-1	FR290425027	ND	0.381	0.572			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	FR290425027	ND	0.306	0.572			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	FR290425027	ND	0.474	0.572			U
	NVHOS	1132933-86-8	FR290425027	ND	0.0881	0.572			U
	PFEESA	113507-82-7	S300425022	ND	0.172	0.572			U
	R-PSDA	2416366-18-0	FR290425027	ND	2.52	2.52			U
	R-PSDCA	2416366-21-5	FR290425027	ND	0.241	0.572			U
ES	MPFBA		FR290425027				20-150%	75.1%	
	M5PFPeA		FR290425027				20-150%	213%	Q
	M3PFBS		FR290425027				20-150%	327%	Q
	M2-4:2 FTS		S300425022				20-150%	149%	
	M5PFHxA		FR290425027				20-150%	63.8%	
	M3HFPO-DA		FR290425027				20-150%	63.8%	
	M4PFHpA		S300425022				20-150%	80.9%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-WGA		
Sampling Site			
Enthalpy ID	0325-1224-001-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 07:55	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	279.8
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-29 21:25	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
Bottle ID	A		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
	M3PFHxS		FR290425027				20-150%	94.7%	
	M2-6:2 FTS		FR290425027				20-150%	124%	
	M8PFOA		FR290425027				20-150%	76.4%	
	M9PFNA		FR290425027				20-150%	60.6%	
	M8PFOS		S300425022				20-150%	60.1%	
	M2-8:2 FTS		FR290425027				20-150%	71.6%	
	M8FOSA-I		FR290425027				20-150%	47.0%	
	M6PFDA		FR290425027				20-150%	67.2%	
	d3-N-MeFOSAA		FR290425027				20-150%	54.2%	
	d5-N-EtFOSAA		FR290425027				20-150%	45.8%	
	M7PFUdA		FR290425027				20-150%	46.7%	
	MPFDoA		FR290425027				20-150%	32.9%	
	M2PFTeDA		FR290425027				20-150%	10.4%	Q
	d3-N-MeFOSA		FR290425027				10-200%	0.537%	Q
	d5-N-EtFOSA		FR290425027				10-200%	0.405%	Q
	d7-N-MeFOSE		FR290425027				10-200%	19.5%	
	d9-N-EtFOSE		FR290425027				10-200%	17.0%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W5		
Sampling Site			
Enthalpy ID	0325-1224-002-1	Prep Batch	EU19211
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 08:15	Instrument	Bumblebee
Received Date	2025-03-31	Sample Vol mL	0.1
Prep Date	2025-04-04 08:09	Extract Vol mL	0.2
AnalysisDate	2025-04-09 14:47	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	B090425-04091447	405	700	1530			L
ES	13C3-PFPrA		B090425-04091447				20-150%	79.4%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W5		
Sampling Site			
Enthalpy ID	0325-1224-002-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 08:15	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	287.54
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-29 21:48	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	FR290425028	ND	0.221	0.556			U
	PFPeA	2706-90-3	FR290425028	ND	0.159	0.556			U
	PFHxA	307-24-4	FR290425028	ND	0.186	0.556			U
	PFHpA	375-85-9	S300425023	ND	0.195	0.556			U
	PFOA	335-67-1	FR290425028	ND	0.127	0.556			U
	PFNA	375-95-1	FR290425028	ND	0.126	0.556			U
	PFDA	335-76-2	FR290425028	ND	0.159	0.556			U
	PFUnDA	2058-94-8	FR290425028	ND	0.126	0.556			U
	PFDoDA	307-55-1	FR290425028	ND	0.226	0.556			U
	PFTrDA	72629-94-8	FR290425028	ND	0.184	0.556			U
	PFTeDA	376-06-7	FR290425028	ND	0.212	0.556			U
	PFHxDA	67905-19-5	FR290425028	ND	0.296	0.556			U
Sulfonates	PFBS	375-73-5	FR290425028	ND	0.296	0.556			U
	PFPeS	2706-91-4	FR290425028	ND	0.114	0.524			U
	PFHxS	355-46-4	FR290425028	ND	0.430	0.510			U
	PFHpS	375-92-8	FR290425028	ND	0.270	0.530			U
	PFOS	1763-23-1	S300425023	ND	0.294	0.515			U
	PFNS	68259-12-1	FR290425028	ND	0.173	0.536			U
	PFDS	335-77-3	FR290425028	ND	0.292	0.536			U
	4:2 FTS	757124-72-4	S300425023	ND	0.0722	0.521			U
	6:2 FTS	27619-97-2	FR290425028	ND	0.263	0.530			U
	8:2 FTS	39108-34-4	FR290425028	ND	0.125	0.533			U
	10:2 FTS	120226-60-0	FR290425028	ND	0.426	0.556			U
Sulfonamidos	FBSA	30334-69-1	FR290425028	ND	0.264	0.556			U
	N-EtFOSA	4151-50-2	FR290425028	ND	0.344	0.556			U
	N-EtFOSAA	2991-50-6	FR290425028	ND	0.226	0.556			U
	N-EtFOSE	1691-99-2	FR290425028	ND	0.852	2.50			U
	N-MeFOSA	31506-32-8	FR290425028	ND	0.230	0.556			U
	N-MeFOSAA	2355-31-9	FR290425028	ND	0.156	0.556			U
	N-MeFOSE	24448-09-7	FR290425028	ND	0.529	2.50			U
	PFOSA	754-91-6	FR290425028	ND	0.0781	0.556			U
PFECAs	ADONA	919005-14-4	FR290425028	ND	0.151	0.527			U
	EVE Acid	69087-46-3	FR290425028	ND	0.177	1.25			U
	HFPO-DA	13252-13-6	FR290425028	ND	0.0589	0.556			U
	Hydro-EVE Acid	773804-62-9	FR290425028	ND	0.183	0.556			U
	NFDHA	151772-58-6	S300425023	ND	0.117	0.556			U
	PEPA	267239-61-2	FR290425028	ND	0.104	0.556			U
	PFECA-G	801212-59-9	FR290425028	ND	0.0743	0.556			U
	PFMOAA	674-13-5	FR290425028	0.271	0.282	0.556			L
	PFMOBA	863090-89-5	FR290425028	ND	0.934	1.25			U
	PFMOPrA	377-73-1	FR290425028	ND	0.198	0.556			U
	PFO2HxA	39492-88-1	FR290425028	ND	0.179	0.556			U
	PFO3OA	39492-89-2	FR290425028	ND	0.256	0.556			U
	PFO4DA	39492-90-5	FR290425028	ND	0.440	2.78			U
	PFO5DA	39492-91-6	S300425023	ND	0.445	2.78			U
	PMPA	13140-29-9	FR290425028	ND	0.131	0.556			U
	R-EVE	2416366-22-6	FR290425028	ND	0.923	1.25			U
PFESAs	11Cl-PF3OUdS	763051-92-9	S300425023	ND	0.263	0.524			U
	9Cl-PF3ONS	756426-58-1	S300425023	ND	0.356	0.518			U
	Hydrolyzed PSDA	2416366-19-1	FR290425028	ND	0.370	0.556			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	FR290425028	ND	0.297	0.556			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	FR290425028	ND	0.461	0.556			U
	NVHOS	1132933-86-8	FR290425028	ND	0.0857	0.556			U
	PFEESA	113507-82-7	S300425023	ND	0.167	0.556			U
	R-PSDA	2416366-18-0	FR290425028	ND	2.45	2.45			U
	R-PSDCA	2416366-21-5	FR290425028	ND	0.235	0.556			U
ES	MPFBA		FR290425028				20-150%	77.3%	
	M5PFPeA		FR290425028				20-150%	203%	Q
	M3PFBS		FR290425028				20-150%	293%	Q
	M2-4:2 FTS		S300425023				20-150%	137%	
	M5PFHxA		FR290425028				20-150%	62.4%	
	M3HFPO-DA		FR290425028				20-150%	62.2%	
	M4PFHpA		S300425023				20-150%	75.7%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W5		
Sampling Site			
Enthalpy ID	0325-1224-002-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 08:15	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	287.54
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-29 21:48	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
Bottle ID	A		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
	M3PFHxS		FR290425028				20-150%	86.7%	
	M2-6:2 FTS		FR290425028				20-150%	116%	
	M8PFOA		FR290425028				20-150%	77.8%	
	M9PFNA		FR290425028				20-150%	69.1%	
	M8PFOS		S300425023				20-150%	76.0%	
	M2-8:2 FTS		FR290425028				20-150%	85.9%	
	M8FOSA-I		FR290425028				20-150%	47.2%	
	M6PFDA		FR290425028				20-150%	76.0%	
	d3-N-MeFOSAA		FR290425028				20-150%	65.1%	
	d5-N-EtFOSAA		FR290425028				20-150%	60.8%	
	M7PFUdA		FR290425028				20-150%	61.5%	
	MPFDoA		FR290425028				20-150%	45.5%	
	M2PFTeDA		FR290425028				20-150%	13.8%	Q
	d3-N-MeFOSA		FR290425028				10-200%	0.920%	Q
	d5-N-EtFOSA		FR290425028				10-200%	0.942%	Q
	d7-N-MeFOSE		FR290425028				10-200%	21.7%	
	d9-N-EtFOSE		FR290425028				10-200%	21.4%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W3		
Sampling Site			
Enthalpy ID	0325-1224-003-1	Prep Batch	EU19211
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 08:20	Instrument	Bumblebee
Received Date	2025-03-31	Sample Vol mL	0.1
Prep Date	2025-04-04 08:09	Extract Vol mL	0.2
AnalysisDate	2025-04-09 14:58	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	B090425-04091458	417	700	1530			L
ES	13C3-PFPrA		B090425-04091458				20-150%	83.3%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W3		
Sampling Site			
Enthalpy ID	0325-1224-003-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 08:20	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	291.16
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-29 22:11	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	FR290425029	ND	0.218	0.550			U
	PFPeA	2706-90-3	FR290425029	ND	0.157	0.550			U
	PFHxA	307-24-4	FR290425029	ND	0.184	0.550			U
	PFHpA	375-85-9	S300425024	ND	0.192	0.550			U
	PFOA	335-67-1	FR290425029	ND	0.126	0.550			U
	PFNA	375-95-1	FR290425029	ND	0.124	0.550			U
	PFDA	335-76-2	FR290425029	ND	0.157	0.550			U
	PFUnDA	2058-94-8	FR290425029	ND	0.124	0.550			U
	PFDoDA	307-55-1	FR290425029	ND	0.223	0.550			U
	PFTrDA	72629-94-8	FR290425029	ND	0.182	0.550			U
	PFTeDA	376-06-7	FR290425029	ND	0.210	0.550			U
	PFHxDA	67905-19-5	FR290425029	ND	0.292	0.550			U
Sulfonates	PFBS	375-73-5	FR290425029	ND	0.292	0.550			U
	PFPeS	2706-91-4	FR290425029	ND	0.113	0.518			U
	PFHxS	355-46-4	FR290425029	ND	0.424	0.503			U
	PFHpS	375-92-8	FR290425029	ND	0.266	0.523			U
	PFOS	1763-23-1	S300425024	ND	0.290	0.509			U
	PFNS	68259-12-1	FR290425029	ND	0.171	0.529			U
	PFDS	335-77-3	FR290425029	ND	0.289	0.529			U
	4:2 FTS	757124-72-4	S300425024	ND	0.0713	0.515			U
	6:2 FTS	27619-97-2	FR290425029	ND	0.259	0.523			U
	8:2 FTS	39108-34-4	FR290425029	ND	0.123	0.526			U
	10:2 FTS	120226-60-0	FR290425029	ND	0.421	0.550			U
Sulfonamidos	FBSA	30334-69-1	FR290425029	ND	0.261	0.550			U
	N-EtFOSA	4151-50-2	FR290425029	ND	0.340	0.550			U
	N-EtFOSAA	2991-50-6	FR290425029	ND	0.223	0.550			U
	N-EtFOSE	1691-99-2	FR290425029	ND	0.841	2.47			U
	N-MeFOSA	31506-32-8	FR290425029	ND	0.227	0.550			U
	N-MeFOSAA	2355-31-9	FR290425029	ND	0.154	0.550			U
	N-MeFOSE	24448-09-7	FR290425029	ND	0.522	2.47			U
	PFOSA	754-91-6	FR290425029	ND	0.0771	0.550			U
PFECAs	ADONA	919005-14-4	FR290425029	ND	0.149	0.521			U
	EVE Acid	69087-46-3	FR290425029	ND	0.175	1.24			U
	HFPO-DA	13252-13-6	FR290425029	ND	0.0582	0.550			U
	Hydro-EVE Acid	773804-62-9	FR290425029	ND	0.180	0.550			U
	NFDHA	151772-58-6	S300425024	ND	0.116	0.550			U
	PEPA	267239-61-2	FR290425029	ND	0.103	0.550			U
	PFECA-G	801212-59-9	FR290425029	ND	0.0733	0.550			U
	PFMOAA	674-13-5	FR290425029	ND	0.278	0.550			U
	PFMOBA	863090-89-5	FR290425029	ND	0.922	1.24			U
	PFMOPrA	377-73-1	FR290425029	ND	0.196	0.550			U
	PFO2HxA	39492-88-1	FR290425029	ND	0.177	0.550			U
	PFO3OA	39492-89-2	FR290425029	ND	0.252	0.550			U
	PFO4DA	39492-90-5	FR290425029	ND	0.434	2.75			U
	PFO5DA	39492-91-6	S300425024	ND	0.440	2.75			U
	PMPA	13140-29-9	FR290425029	ND	0.129	0.550			U
	R-EVE	2416366-22-6	FR290425029	ND	0.912	1.24			U
PFESAs	11Cl-PF3OUdS	763051-92-9	S300425024	ND	0.259	0.518			U
	9Cl-PF3ONS	756426-58-1	S300425024	ND	0.352	0.512			U
	Hydrolyzed PSDA	2416366-19-1	FR290425029	ND	0.366	0.550			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	FR290425029	ND	0.294	0.550			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	FR290425029	ND	0.455	0.550			U
	NVHOS	1132933-86-8	FR290425029	ND	0.0847	0.550			U
	PFEESA	113507-82-7	S300425024	ND	0.165	0.550			U
	R-PSDA	2416366-18-0	FR290425029	ND	2.42	2.42			U
	R-PSDCA	2416366-21-5	FR290425029	ND	0.232	0.550			U
ES	MPFBA		FR290425029				20-150%	73.2%	
	M5PFPeA		FR290425029				20-150%	214%	Q
	M3PFBS		FR290425029				20-150%	349%	Q
	M2-4:2 FTS		S300425024				20-150%	119%	
	M5PFHxA		FR290425029				20-150%	56.4%	
	M3HFPO-DA		FR290425029				20-150%	57.8%	
	M4PFHpA		S300425024				20-150%	66.0%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W3		
Sampling Site			
Enthalpy ID	0325-1224-003-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 08:20	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	291.16
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-29 22:11	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
Bottle ID	A		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
	M3PFHxS		FR290425029				20-150%	78.9%	
	M2-6:2 FTS		FR290425029				20-150%	105%	
	M8PFOA		FR290425029				20-150%	70.1%	
	M9PFNA		FR290425029				20-150%	61.1%	
	M8PFOS		S300425024				20-150%	62.9%	
	M2-8:2 FTS		FR290425029				20-150%	73.3%	
	M8FOSA-I		FR290425029				20-150%	50.0%	
	M6PFDA		FR290425029				20-150%	64.7%	
	d3-N-MeFOSAA		FR290425029				20-150%	54.2%	
	d5-N-EtFOSAA		FR290425029				20-150%	44.4%	
	M7PFUdA		FR290425029				20-150%	52.2%	
	MPFDoA		FR290425029				20-150%	32.1%	
	M2PFTeDA		FR290425029				20-150%	15.2%	Q
	d3-N-MeFOSA		FR290425029				10-200%	1.54%	Q
	d5-N-EtFOSA		FR290425029				10-200%	1.14%	Q
	d7-N-MeFOSE		FR290425029				10-200%	11.2%	
	d9-N-EtFOSE		FR290425029				10-200%	9.72%	Q

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W1		
Sampling Site			
Enthalpy ID	0325-1224-004-1	Prep Batch	EU19211
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 08:30	Instrument	Bumblebee
Received Date	2025-03-31	Sample Vol mL	0.1
Prep Date	2025-04-04 08:09	Extract Vol mL	0.2
AnalysisDate	2025-04-09 15:10	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	B090425-04091510	426	700	1530			L
ES	13C3-PFPrA		B090425-04091510				20-150%	77.3%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W1		
Sampling Site			
Enthalpy ID	0325-1224-004-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 08:30	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	286.02
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-29 22:33	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	FR290425030	ND	0.222	0.559			U
	PFPeA	2706-90-3	FR290425030	ND	0.160	0.559			U
	PFHxA	307-24-4	FR290425030	0.108	0.187	0.559			L
	PFHpA	375-85-9	S300425025	ND	0.196	0.559			U
	PFOA	335-67-1	FR290425030	0.00384	0.128	0.559			L
	PFNA	375-95-1	FR290425030	ND	0.126	0.559			U
	PFDA	335-76-2	FR290425030	ND	0.160	0.559			U
	PFUnDA	2058-94-8	FR290425030	ND	0.126	0.559			U
	PFDoDA	307-55-1	FR290425030	ND	0.227	0.559			U
	PFTrDA	72629-94-8	FR290425030	ND	0.185	0.559			U
	PFTeDA	376-06-7	FR290425030	ND	0.213	0.559			U
	PFHxDA	67905-19-5	FR290425030	ND	0.297	0.559			U
Sulfonates	PFBS	375-73-5	FR290425030	0.210	0.297	0.559			L
	PFPeS	2706-91-4	FR290425030	ND	0.115	0.527			U
	PFHxS	355-46-4	FR290425030	ND	0.432	0.512			U
	PFHpS	375-92-8	FR290425030	ND	0.271	0.533			U
	PFOS	1763-23-1	S300425025	ND	0.295	0.518			U
	PFNS	68259-12-1	FR290425030	ND	0.174	0.539			U
	PFDS	335-77-3	FR290425030	ND	0.294	0.539			U
	4:2 FTS	757124-72-4	S300425025	ND	0.0725	0.524			U
	6:2 FTS	27619-97-2	FR290425030	ND	0.264	0.533			U
	8:2 FTS	39108-34-4	FR290425030	0.0345	0.125	0.536			L
	10:2 FTS	120226-60-0	FR290425030	ND	0.428	0.559			U
Sulfonamidos	FBSA	30334-69-1	FR290425030	ND	0.266	0.559			U
	N-EtFOSA	4151-50-2	FR290425030	ND	0.346	0.559			U
	N-EtFOSAA	2991-50-6	FR290425030	ND	0.227	0.559			U
	N-EtFOSE	1691-99-2	FR290425030	ND	0.857	2.52			U
	N-MeFOSA	31506-32-8	FR290425030	ND	0.231	0.559			U
	N-MeFOSAA	2355-31-9	FR290425030	ND	0.157	0.559			U
	N-MeFOSE	24448-09-7	FR290425030	ND	0.531	2.52			U
	PFOSA	754-91-6	FR290425030	ND	0.0785	0.559			U
PFECAs	ADONA	919005-14-4	FR290425030	ND	0.152	0.530			U
	EVE Acid	69087-46-3	FR290425030	ND	0.178	1.26			U
	HFPO-DA	13252-13-6	FR290425030	0.149	0.0593	0.559			J
	Hydro-EVE Acid	773804-62-9	FR290425030	ND	0.184	0.559			U
	NFDHA	151772-58-6	S300425025	ND	0.118	0.559			U
	PEPA	267239-61-2	FR290425030	ND	0.105	0.559			U
	PFECA-G	801212-59-9	FR290425030	ND	0.0746	0.559			U
	PFMOAA	674-13-5	FR290425030	2.34	0.283	0.559			
	PFMOBA	863090-89-5	FR290425030	ND	0.939	1.26			U
	PFMOPrA	377-73-1	FR290425030	ND	0.199	0.559			U
	PFO2HxA	39492-88-1	FR290425030	ND	0.180	0.559			U
	PFO3OA	39492-89-2	FR290425030	ND	0.257	0.559			U
	PFO4DA	39492-90-5	FR290425030	ND	0.442	2.80			U
	PFO5DA	39492-91-6	S300425025	ND	0.448	2.80			U
	PMPA	13140-29-9	FR290425030	1.14	0.132	0.559			
	R-EVE	2416366-22-6	FR290425030	ND	0.928	1.26			U
PFESAs	11Cl-PF3OUdS	763051-92-9	S300425025	ND	0.264	0.527			U
	9Cl-PF3ONS	756426-58-1	S300425025	ND	0.358	0.521			U
	Hydrolyzed PSDA	2416366-19-1	FR290425030	ND	0.372	0.559			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	FR290425030	ND	0.299	0.559			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	FR290425030	ND	0.463	0.559			U
	NVHOS	1132933-86-8	FR290425030	ND	0.0862	0.559			U
	PFEESA	113507-82-7	S300425025	ND	0.168	0.559			U
	R-PSDA	2416366-18-0	FR290425030	ND	2.46	2.46			U
	R-PSDCA	2416366-21-5	FR290425030	ND	0.236	0.559			U
ES	MPFBA		FR290425030				20-150%	73.6%	
	M5PFPeA		FR290425030				20-150%	236%	Q
	M3PFBS		FR290425030				20-150%	49.4%	Ac
	M2-4:2 FTS		S300425025				20-150%	127%	
	M5PFHxA		FR290425030				20-150%	57.2%	
	M3HFPO-DA		FR290425030				20-150%	60.8%	
	M4PFHpA		S300425025				20-150%	74.2%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W1		
Sampling Site			
Enthalpy ID	0325-1224-004-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 08:30	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	286.02
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-29 22:33	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
Bottle ID	A		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
	M3PFHxS		FR290425030				20-150%	87.8%	
	M2-6:2 FTS		FR290425030				20-150%	112%	
	M8PFOA		FR290425030				20-150%	72.6%	
	M9PFNA		FR290425030				20-150%	59.0%	
	M8PFOS		S300425025				20-150%	66.3%	
	M2-8:2 FTS		FR290425030				20-150%	73.8%	
	M8FOSA-I		FR290425030				20-150%	39.4%	
	M6PFDA		FR290425030				20-150%	68.6%	
	d3-N-MeFOSAA		FR290425030				20-150%	56.0%	
	d5-N-EtFOSAA		FR290425030				20-150%	51.5%	
	M7PFUdA		FR290425030				20-150%	50.9%	
	MPFDoA		FR290425030				20-150%	33.5%	
	M2PFTeDA		FR290425030				20-150%	11.1%	Q
	d3-N-MeFOSA		FR290425030				10-200%	0.506%	Q
	d5-N-EtFOSA		FR290425030				10-200%	0.355%	Q
	d7-N-MeFOSE		FR290425030				10-200%	15.4%	
	d9-N-EtFOSE		FR290425030				10-200%	13.1%	

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Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W2		
Sampling Site			
Enthalpy ID	0325-1224-005-1	Prep Batch	EU19211
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 08:38	Instrument	Bumblebee
Received Date	2025-03-31	Sample Vol mL	0.1
Prep Date	2025-04-04 08:09	Extract Vol mL	0.2
AnalysisDate	2025-04-09 15:22	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	B090425-04091522	417	700	1530			L
ES	13C3-PFPrA		B090425-04091522				20-150%	84.9%	

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Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W2		
Sampling Site			
Enthalpy ID	0325-1224-005-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 08:38	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	291.53
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-29 22:56	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	FR290425031	ND	0.218	0.549			U
	PFPeA	2706-90-3	FR290425031	ND	0.157	0.549			U
	PFHxA	307-24-4	FR290425031	ND	0.184	0.549			U
	PFHpA	375-85-9	S300425026	ND	0.192	0.549			U
	PFOA	335-67-1	FR290425031	ND	0.126	0.549			U
	PFNA	375-95-1	FR290425031	ND	0.124	0.549			U
	PFDA	335-76-2	FR290425031	ND	0.157	0.549			U
	PFUnDA	2058-94-8	FR290425031	ND	0.124	0.549			U
	PFDoDA	307-55-1	FR290425031	ND	0.223	0.549			U
	PFTrDA	72629-94-8	FR290425031	ND	0.182	0.549			U
	PFTeDA	376-06-7	FR290425031	ND	0.209	0.549			U
	PFHxDA	67905-19-5	FR290425031	ND	0.292	0.549			U
Sulfonates	PFBS	375-73-5	FR290425031	ND	0.292	0.549			U
	PFPeS	2706-91-4	FR290425031	ND	0.113	0.517			U
	PFHxS	355-46-4	FR290425031	ND	0.424	0.503			U
	PFHpS	375-92-8	FR290425031	ND	0.266	0.523			U
	PFOS	1763-23-1	S300425026	ND	0.290	0.508			U
	PFNS	68259-12-1	FR290425031	ND	0.170	0.529			U
	PFDS	335-77-3	FR290425031	ND	0.288	0.529			U
	4:2 FTS	757124-72-4	S300425026	ND	0.0712	0.514			U
	6:2 FTS	27619-97-2	FR290425031	ND	0.259	0.523			U
	8:2 FTS	39108-34-4	FR290425031	0.0199	0.123	0.526			L
	10:2 FTS	120226-60-0	FR290425031	ND	0.420	0.549			U
Sulfonamidos	FBSA	30334-69-1	FR290425031	ND	0.261	0.549			U
	N-EtFOSA	4151-50-2	FR290425031	ND	0.340	0.549			U
	N-EtFOSAA	2991-50-6	FR290425031	ND	0.223	0.549			U
	N-EtFOSE	1691-99-2	FR290425031	ND	0.840	2.47			U
	N-MeFOSA	31506-32-8	FR290425031	ND	0.226	0.549			U
	N-MeFOSAA	2355-31-9	FR290425031	ND	0.154	0.549			U
	N-MeFOSE	24448-09-7	FR290425031	ND	0.521	2.47			U
	PFOSA	754-91-6	FR290425031	ND	0.0770	0.549			U
PFECAs	ADONA	919005-14-4	FR290425031	ND	0.149	0.520			U
	EVE Acid	69087-46-3	FR290425031	ND	0.175	1.23			U
	HFPO-DA	13252-13-6	FR290425031	ND	0.0581	0.549			U
	Hydro-EVE Acid	773804-62-9	FR290425031	ND	0.180	0.549			U
	NFDHA	151772-58-6	S300425026	ND	0.115	0.549			U
	PEPA	267239-61-2	FR290425031	ND	0.103	0.549			U
	PFECA-G	801212-59-9	FR290425031	ND	0.0732	0.549			U
	PFMOAA	674-13-5	FR290425031	ND	0.278	0.549			U
	PFMOBA	863090-89-5	FR290425031	ND	0.921	1.23			U
	PFMOPrA	377-73-1	FR290425031	ND	0.196	0.549			U
	PFO2HxA	39492-88-1	FR290425031	ND	0.177	0.549			U
	PFO3OA	39492-89-2	FR290425031	ND	0.252	0.549			U
	PFO4DA	39492-90-5	FR290425031	ND	0.434	2.74			U
	PFO5DA	39492-91-6	S300425026	ND	0.439	2.74			U
	PMPA	13140-29-9	FR290425031	0.220	0.129	0.549			J
	R-EVE	2416366-22-6	FR290425031	ND	0.911	1.23			U
PFESAs	11Cl-PF3OUdS	763051-92-9	S300425026	ND	0.259	0.517			U
	9Cl-PF3ONS	756426-58-1	S300425026	ND	0.352	0.511			U
	Hydrolyzed PSDA	2416366-19-1	FR290425031	ND	0.365	0.549			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	FR290425031	ND	0.293	0.549			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	FR290425031	ND	0.454	0.549			U
	NVHOS	1132933-86-8	FR290425031	ND	0.0846	0.549			U
	PFEESA	113507-82-7	S300425026	ND	0.165	0.549			U
	R-PSDA	2416366-18-0	FR290425031	ND	2.42	2.42			U
	R-PSDCA	2416366-21-5	FR290425031	ND	0.232	0.549			U
ES	MPFBA		FR290425031				20-150%	74.5%	
	M5PFPeA		FR290425031				20-150%	228%	Q
	M3PFBS		FR290425031				20-150%	361%	Q
	M2-4:2 FTS		S300425026				20-150%	129%	
	M5PFHxA		FR290425031				20-150%	57.6%	
	M3HFPO-DA		FR290425031				20-150%	59.6%	
	M4PFHpA		S300425026				20-150%	72.0%	

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Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W2		
Sampling Site			
Enthalpy ID	0325-1224-005-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 08:38	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	291.53
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-29 22:56	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
Bottle ID	A		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
	M3PFHxS		FR290425031				20-150%	75.8%	
	M2-6:2 FTS		FR290425031				20-150%	101%	
	M8PFOA		FR290425031				20-150%	66.3%	
	M9PFNA		FR290425031				20-150%	58.1%	
	M8PFOS		S300425026				20-150%	62.0%	
	M2-8:2 FTS		FR290425031				20-150%	76.4%	
	M8FOSA-I		FR290425031				20-150%	48.6%	
	M6PFDA		FR290425031				20-150%	66.2%	
	d3-N-MeFOSAA		FR290425031				20-150%	60.1%	
	d5-N-EtFOSAA		FR290425031				20-150%	55.6%	
	M7PFUdA		FR290425031				20-150%	55.3%	
	MPFDoA		FR290425031				20-150%	40.5%	
	M2PFTeDA		FR290425031				20-150%	16.7%	Q
	d3-N-MeFOSA		FR290425031				10-200%	1.97%	Q
	d5-N-EtFOSA		FR290425031				10-200%	1.66%	Q
	d7-N-MeFOSE		FR290425031				10-200%	21.0%	
	d9-N-EtFOSE		FR290425031				10-200%	18.8%	

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Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W16		
Sampling Site			
Enthalpy ID	0325-1224-006-1	Prep Batch	EU19211
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 08:42	Instrument	Bumblebee
Received Date	2025-03-31	Sample Vol mL	0.1
Prep Date	2025-04-04 08:09	Extract Vol mL	0.2
AnalysisDate	2025-04-09 15:33	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	B090425-04091533	413	700	1530			L
ES	13C3-PFPrA		B090425-04091533				20-150%	80.8%	

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Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W16		
Sampling Site			
Enthalpy ID	0325-1224-006-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 08:42	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	289.62
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-29 23:19	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	FR290425032	ND	0.219	0.552			U
	PFPeA	2706-90-3	FR290425032	ND	0.158	0.552			U
	PFHxA	307-24-4	FR290425032	ND	0.185	0.552			U
	PFHpA	375-85-9	S300425027	ND	0.193	0.552			U
	PFOA	335-67-1	FR290425032	ND	0.126	0.552			U
	PFNA	375-95-1	FR290425032	ND	0.125	0.552			U
	PFDA	335-76-2	FR290425032	ND	0.158	0.552			U
	PFUnDA	2058-94-8	FR290425032	ND	0.125	0.552			U
	PFDoDA	307-55-1	FR290425032	ND	0.224	0.552			U
	PFTrDA	72629-94-8	FR290425032	ND	0.183	0.552			U
	PFTeDA	376-06-7	FR290425032	ND	0.211	0.552			U
	PFHxDA	67905-19-5	FR290425032	ND	0.293	0.552			U
Sulfonates	PFBS	375-73-5	FR290425032	ND	0.293	0.552			U
	PFPeS	2706-91-4	FR290425032	ND	0.113	0.520			U
	PFHxS	355-46-4	FR290425032	ND	0.426	0.506			U
	PFHpS	375-92-8	FR290425032	ND	0.268	0.526			U
	PFOS	1763-23-1	S300425027	ND	0.292	0.512			U
	PFNS	68259-12-1	FR290425032	ND	0.171	0.532			U
	PFDS	335-77-3	FR290425032	ND	0.290	0.532			U
	4:2 FTS	757124-72-4	S300425027	ND	0.0716	0.518			U
	6:2 FTS	27619-97-2	FR290425032	ND	0.261	0.526			U
	8:2 FTS	39108-34-4	FR290425032	ND	0.124	0.529			U
	10:2 FTS	120226-60-0	FR290425032	ND	0.423	0.552			U
Sulfonamidos	FBSA	30334-69-1	FR290425032	ND	0.262	0.552			U
	N-EtFOSA	4151-50-2	FR290425032	ND	0.342	0.552			U
	N-EtFOSAA	2991-50-6	FR290425032	ND	0.224	0.552			U
	N-EtFOSE	1691-99-2	FR290425032	ND	0.846	2.49			U
	N-MeFOSA	31506-32-8	FR290425032	ND	0.228	0.552			U
	N-MeFOSAA	2355-31-9	FR290425032	ND	0.155	0.552			U
	N-MeFOSE	24448-09-7	FR290425032	ND	0.525	2.49			U
	PFOSA	754-91-6	FR290425032	ND	0.0775	0.552			U
PFECAs	ADONA	919005-14-4	FR290425032	ND	0.150	0.523			U
	EVE Acid	69087-46-3	FR290425032	ND	0.176	1.24			U
	HFPO-DA	13252-13-6	FR290425032	ND	0.0585	0.552			U
	Hydro-EVE Acid	773804-62-9	FR290425032	ND	0.181	0.552			U
	NFDHA	151772-58-6	S300425027	ND	0.116	0.552			U
	PEPA	267239-61-2	FR290425032	ND	0.104	0.552			U
	PFECA-G	801212-59-9	FR290425032	ND	0.0737	0.552			U
	PFMOAA	674-13-5	FR290425032	ND	0.280	0.552			U
	PFMOBA	863090-89-5	FR290425032	ND	0.927	1.24			U
	PFMOPrA	377-73-1	FR290425032	ND	0.197	0.552			U
	PFO2HxA	39492-88-1	FR290425032	ND	0.178	0.552			U
	PFO3OA	39492-89-2	FR290425032	ND	0.254	0.552			U
	PFO4DA	39492-90-5	FR290425032	ND	0.437	2.76			U
	PFO5DA	39492-91-6	S300425027	ND	0.442	2.76			U
	PMPA	13140-29-9	FR290425032	0.430	0.130	0.552			J
	R-EVE	2416366-22-6	FR290425032	ND	0.917	1.24			U
PFESAs	11Cl-PF3OUdS	763051-92-9	S300425027	ND	0.261	0.520			U
	9Cl-PF3ONS	756426-58-1	S300425027	ND	0.354	0.515			U
	Hydrolyzed PSDA	2416366-19-1	FR290425032	ND	0.368	0.552			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	FR290425032	ND	0.295	0.552			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	FR290425032	ND	0.457	0.552			U
	NVHOS	1132933-86-8	FR290425032	ND	0.0851	0.552			U
	PFEESA	113507-82-7	S300425027	ND	0.166	0.552			U
	R-PSDA	2416366-18-0	FR290425032	ND	2.43	2.43			U
	R-PSDCA	2416366-21-5	FR290425032	ND	0.233	0.552			U
ES	MPFBA		FR290425032				20-150%	90.1%	
	M5PFPeA		FR290425032				20-150%	302%	Q
	M3PFBS		FR290425032				20-150%	54.6%	Ac
	M2-4:2 FTS		S300425027				20-150%	196%	Q
	M5PFHxA		FR290425032				20-150%	74.3%	
	M3HFPO-DA		FR290425032				20-150%	78.7%	
	M4PFHpA		S300425027				20-150%	92.0%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W16		
Sampling Site			
Enthalpy ID	0325-1224-006-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 08:42	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	289.62
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-29 23:19	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
Bottle ID	A		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
	M3PFHxS		FR290425032				20-150%	121%	
	M2-6:2 FTS		FR290425032				20-150%	159%	Q
	M8PFOA		FR290425032				20-150%	91.3%	
	M9PFNA		FR290425032				20-150%	72.8%	
	M8PFOS		S300425027				20-150%	85.6%	
	M2-8:2 FTS		FR290425032				20-150%	93.1%	
	M8FOSA-I		FR290425032				20-150%	45.4%	
	M6PFDA		FR290425032				20-150%	86.4%	
	d3-N-MeFOSAA		FR290425032				20-150%	70.8%	
	d5-N-EtFOSAA		FR290425032				20-150%	61.1%	
	M7PFUdA		FR290425032				20-150%	59.5%	
	MPFDoA		FR290425032				20-150%	36.6%	
	M2PFTeDA		FR290425032				20-150%	8.97%	Q
	d3-N-MeFOSA		FR290425032				10-200%	0.121%	Q
	d5-N-EtFOSA		FR290425032				10-200%	0.113%	Q
	d7-N-MeFOSE		FR290425032				10-200%	18.0%	
	d9-N-EtFOSE		FR290425032				10-200%	15.5%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W17		
Sampling Site			
Enthalpy ID	0325-1224-007-1	Prep Batch	EU19211
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 08:52	Instrument	Bumblebee
Received Date	2025-03-31	Sample Vol mL	0.1
Prep Date	2025-04-04 08:09	Extract Vol mL	0.2
AnalysisDate	2025-04-09 15:45	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	B090425-04091545	410	700	1530			L
ES	13C3-PFPrA		B090425-04091545				20-150%	82.8%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W17		
Sampling Site			
Enthalpy ID	0325-1224-007-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 08:52	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	291.11
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-29 23:42	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	FR290425033	ND	0.218	0.550			U
	PFPeA	2706-90-3	FR290425033	ND	0.157	0.550			U
	PFHxA	307-24-4	FR290425033	ND	0.184	0.550			U
	PFHpA	375-85-9	S300425028	ND	0.192	0.550			U
	PFOA	335-67-1	FR290425033	ND	0.126	0.550			U
	PFNA	375-95-1	FR290425033	ND	0.124	0.550			U
	PFDA	335-76-2	FR290425033	ND	0.157	0.550			U
	PFUnDA	2058-94-8	FR290425033	ND	0.124	0.550			U
	PFDoDA	307-55-1	FR290425033	ND	0.223	0.550			U
	PFTrDA	72629-94-8	FR290425033	ND	0.182	0.550			U
	PFTeDA	376-06-7	FR290425033	ND	0.210	0.550			U
	PFHxDA	67905-19-5	FR290425033	ND	0.292	0.550			U
Sulfonates	PFBS	375-73-5	FR290425033	ND	0.292	0.550			U
	PFPeS	2706-91-4	FR290425033	ND	0.113	0.518			U
	PFHxS	355-46-4	FR290425033	ND	0.424	0.503			U
	PFHpS	375-92-8	FR290425033	ND	0.266	0.524			U
	PFOS	1763-23-1	S300425028	ND	0.290	0.509			U
	PFNS	68259-12-1	FR290425033	ND	0.171	0.529			U
	PFDS	335-77-3	FR290425033	ND	0.289	0.529			U
	4:2 FTS	757124-72-4	S300425028	ND	0.0713	0.515			U
	6:2 FTS	27619-97-2	FR290425033	ND	0.259	0.524			U
	8:2 FTS	39108-34-4	FR290425033	0.00894	0.123	0.526			L
	10:2 FTS	120226-60-0	FR290425033	ND	0.421	0.550			U
Sulfonamidos	FBSA	30334-69-1	FR290425033	ND	0.261	0.550			U
	N-EtFOSA	4151-50-2	FR290425033	ND	0.340	0.550			U
	N-EtFOSAA	2991-50-6	FR290425033	ND	0.223	0.550			U
	N-EtFOSE	1691-99-2	FR290425033	ND	0.842	2.47			U
	N-MeFOSA	31506-32-8	FR290425033	ND	0.227	0.550			U
	N-MeFOSAA	2355-31-9	FR290425033	ND	0.154	0.550			U
	N-MeFOSE	24448-09-7	FR290425033	ND	0.522	2.47			U
	PFOSA	754-91-6	FR290425033	ND	0.0771	0.550			U
PFECAs	ADONA	919005-14-4	FR290425033	ND	0.149	0.521			U
	EVE Acid	69087-46-3	FR290425033	ND	0.175	1.24			U
	HFPO-DA	13252-13-6	FR290425033	ND	0.0582	0.550			U
	Hydro-EVE Acid	773804-62-9	FR290425033	ND	0.180	0.550			U
	NFDHA	151772-58-6	S300425028	ND	0.116	0.550			U
	PEPA	267239-61-2	FR290425033	ND	0.103	0.550			U
	PFECA-G	801212-59-9	FR290425033	ND	0.0733	0.550			U
	PFMOAA	674-13-5	FR290425033	ND	0.278	0.550			U
	PFMOBA	863090-89-5	FR290425033	ND	0.922	1.24			U
	PFMOPrA	377-73-1	FR290425033	ND	0.196	0.550			U
	PFO2HxA	39492-88-1	FR290425033	ND	0.177	0.550			U
	PFO3OA	39492-89-2	FR290425033	ND	0.252	0.550			U
	PFO4DA	39492-90-5	FR290425033	ND	0.435	2.75			U
	PFO5DA	39492-91-6	S300425028	ND	0.440	2.75			U
	PMPA	13140-29-9	FR290425033	ND	0.130	0.550			U
	R-EVE	2416366-22-6	FR290425033	ND	0.912	1.24			U
PFESAs	11Cl-PF3OUdS	763051-92-9	S300425028	ND	0.259	0.518			U
	9Cl-PF3ONS	756426-58-1	S300425028	ND	0.352	0.512			U
	Hydrolyzed PSDA	2416366-19-1	FR290425033	ND	0.366	0.550			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	FR290425033	ND	0.294	0.550			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	FR290425033	ND	0.455	0.550			U
	NVHOS	1132933-86-8	FR290425033	ND	0.0847	0.550			U
	PFEESA	113507-82-7	S300425028	ND	0.165	0.550			U
	R-PSDA	2416366-18-0	FR290425033	ND	2.42	2.42			U
	R-PSDCA	2416366-21-5	FR290425033	ND	0.232	0.550			U
ES	MPFBA		FR290425033				20-150%	84.0%	
	M5PFPeA		FR290425033				20-150%	229%	Q
	M3PFBS		FR290425033				20-150%	327%	Q
	M2-4:2 FTS		S300425028				20-150%	5.69%	Q
	M5PFHxA		FR290425033				20-150%	69.0%	
	M3HFPO-DA		FR290425033				20-150%	66.0%	
	M4PFHpA		S300425028				20-150%	82.4%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W17		
Sampling Site			
Enthalpy ID	0325-1224-007-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 08:52	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	291.11
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-29 23:42	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
Bottle ID	A		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
	M3PFHxS		FR290425033				20-150%	88.0%	
	M2-6:2 FTS		FR290425033				20-150%	39.6%	
	M8PFOA		FR290425033				20-150%	71.1%	
	M9PFNA		FR290425033				20-150%	55.9%	
	M8PFOS		S300425028				20-150%	62.9%	
	M2-8:2 FTS		FR290425033				20-150%	66.0%	
	M8FOSA-I		FR290425033				20-150%	52.3%	
	M6PFDA		FR290425033				20-150%	62.7%	
	d3-N-MeFOSAA		FR290425033				20-150%	61.5%	
	d5-N-EtFOSAA		FR290425033				20-150%	59.3%	
	M7PFUdA		FR290425033				20-150%	61.5%	
	MPFDoA		FR290425033				20-150%	53.2%	
	M2PFTeDA		FR290425033				20-150%	32.8%	
	d3-N-MeFOSA		FR290425033				10-200%	4.01%	Q
	d5-N-EtFOSA		FR290425033				10-200%	3.26%	Q
	d7-N-MeFOSE		FR290425033				10-200%	25.1%	
	d9-N-EtFOSE		FR290425033				10-200%	24.4%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W18		
Sampling Site			
Enthalpy ID	0325-1224-008-1	Prep Batch	EU19211
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 08:58	Instrument	Bumblebee
Received Date	2025-03-31	Sample Vol mL	0.1
Prep Date	2025-04-04 08:09	Extract Vol mL	0.2
AnalysisDate	2025-04-09 15:56	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	B090425-04091556	408	700	1530			L
ES	13C3-PFPrA		B090425-04091556				20-150%	81.4%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W18		
Sampling Site			
Enthalpy ID	0325-1224-008-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 08:58	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	288.31
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-30 00:04	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	FR290425034	ND	0.220	0.555			U
	PFPeA	2706-90-3	FR290425034	ND	0.159	0.555			U
	PFHxA	307-24-4	FR290425034	ND	0.186	0.555			U
	PFHpA	375-85-9	S300425029	ND	0.194	0.555			U
	PFOA	335-67-1	FR290425034	ND	0.127	0.555			U
	PFNA	375-95-1	FR290425034	ND	0.125	0.555			U
	PFDA	335-76-2	FR290425034	ND	0.159	0.555			U
	PFUnDA	2058-94-8	FR290425034	ND	0.125	0.555			U
	PFDoDA	307-55-1	FR290425034	ND	0.225	0.555			U
	PFTrDA	72629-94-8	FR290425034	ND	0.184	0.555			U
	PFTeDA	376-06-7	FR290425034	ND	0.212	0.555			U
	PFHxDA	67905-19-5	FR290425034	ND	0.295	0.555			U
Sulfonates	PFBS	375-73-5	FR290425034	ND	0.295	0.555			U
	PFPeS	2706-91-4	FR290425034	ND	0.114	0.523			U
	PFHxS	355-46-4	FR290425034	ND	0.428	0.508			U
	PFHpS	375-92-8	FR290425034	ND	0.269	0.529			U
	PFOS	1763-23-1	S300425029	ND	0.293	0.514			U
	PFNS	68259-12-1	FR290425034	ND	0.172	0.535			U
	PFDS	335-77-3	FR290425034	ND	0.291	0.535			U
	4:2 FTS	757124-72-4	S300425029	ND	0.0720	0.520			U
	6:2 FTS	27619-97-2	FR290425034	ND	0.262	0.529			U
	8:2 FTS	39108-34-4	FR290425034	ND	0.124	0.532			U
	10:2 FTS	120226-60-0	FR290425034	ND	0.425	0.555			U
Sulfonamidos	FBSA	30334-69-1	FR290425034	ND	0.264	0.555			U
	N-EtFOSA	4151-50-2	FR290425034	ND	0.343	0.555			U
	N-EtFOSAA	2991-50-6	FR290425034	ND	0.225	0.555			U
	N-EtFOSE	1691-99-2	FR290425034	ND	0.850	2.50			U
	N-MeFOSA	31506-32-8	FR290425034	ND	0.229	0.555			U
	N-MeFOSAA	2355-31-9	FR290425034	ND	0.156	0.555			U
	N-MeFOSE	24448-09-7	FR290425034	ND	0.527	2.50			U
	PFOSA	754-91-6	FR290425034	ND	0.0779	0.555			U
PFECAs	ADONA	919005-14-4	FR290425034	ND	0.150	0.526			U
	EVE Acid	69087-46-3	FR290425034	ND	0.177	1.25			U
	HFPO-DA	13252-13-6	FR290425034	ND	0.0588	0.555			U
	Hydro-EVE Acid	773804-62-9	FR290425034	ND	0.182	0.555			U
	NFDHA	151772-58-6	S300425029	ND	0.117	0.555			U
	PEPA	267239-61-2	FR290425034	ND	0.104	0.555			U
	PFECA-G	801212-59-9	FR290425034	ND	0.0741	0.555			U
	PFMOAA	674-13-5	FR290425034	ND	0.281	0.555			U
	PFMOBA	863090-89-5	FR290425034	ND	0.931	1.25			U
	PFMOPrA	377-73-1	FR290425034	ND	0.198	0.555			U
	PFO2HxA	39492-88-1	FR290425034	ND	0.179	0.555			U
	PFO3OA	39492-89-2	FR290425034	ND	0.255	0.555			U
	PFO4DA	39492-90-5	FR290425034	ND	0.439	2.77			U
	PFO5DA	39492-91-6	S300425029	ND	0.444	2.77			U
	PMPA	13140-29-9	FR290425034	ND	0.131	0.555			U
	R-EVE	2416366-22-6	FR290425034	ND	0.921	1.25			U
PFESAs	11Cl-PF3OUdS	763051-92-9	S300425029	ND	0.262	0.523			U
	9Cl-PF3ONS	756426-58-1	S300425029	ND	0.356	0.517			U
	Hydrolyzed PSDA	2416366-19-1	FR290425034	ND	0.369	0.555			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	FR290425034	ND	0.297	0.555			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	FR290425034	ND	0.460	0.555			U
	NVHOS	1132933-86-8	FR290425034	ND	0.0855	0.555			U
	PFEESA	113507-82-7	S300425029	ND	0.167	0.555			U
	R-PSDA	2416366-18-0	FR290425034	ND	2.45	2.45			U
	R-PSDCA	2416366-21-5	FR290425034	ND	0.234	0.555			U
ES	MPFBA		FR290425034				20-150%	89.4%	
	M5PFPeA		FR290425034				20-150%	277%	Q
	M3PFBS		FR290425034				20-150%	54.6%	Ac
	M2-4:2 FTS		S300425029				20-150%	158%	Q
	M5PFHxA		FR290425034				20-150%	73.0%	
	M3HFPO-DA		FR290425034				20-150%	73.8%	
	M4PFHpA		S300425029				20-150%	92.0%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W18		
Sampling Site			
Enthalpy ID	0325-1224-008-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 08:58	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	288.31
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-30 00:04	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
Bottle ID	A		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
	M3PFHxS		FR290425034				20-150%	103%	
	M2-6:2 FTS		FR290425034				20-150%	144%	
	M8PFOA		FR290425034				20-150%	90.7%	
	M9PFNA		FR290425034				20-150%	77.8%	
	M8PFOS		S300425029				20-150%	88.9%	
	M2-8:2 FTS		FR290425034				20-150%	100%	
	M8FOSA-I		FR290425034				20-150%	68.7%	
	M6PFDA		FR290425034				20-150%	90.4%	
	d3-N-MeFOSAA		FR290425034				20-150%	79.5%	
	d5-N-EtFOSAA		FR290425034				20-150%	73.9%	
	M7PFUdA		FR290425034				20-150%	71.2%	
	MPFDoA		FR290425034				20-150%	52.7%	
	M2PFTeDA		FR290425034				20-150%	23.5%	
	d3-N-MeFOSA		FR290425034				10-200%	2.42%	Q
	d5-N-EtFOSA		FR290425034				10-200%	2.55%	Q
	d7-N-MeFOSE		FR290425034				10-200%	34.9%	
	d9-N-EtFOSE		FR290425034				10-200%	30.6%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W19		
Sampling Site			
Enthalpy ID	0325-1224-009-1	Prep Batch	EU19211
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 09:02	Instrument	Bumblebee
Received Date	2025-03-31	Sample Vol mL	0.1
Prep Date	2025-04-04 08:09	Extract Vol mL	0.2
AnalysisDate	2025-04-09 16:08	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	B090425-04091608	411	700	1530			L
ES	13C3-PFPrA		B090425-04091608				20-150%	76.6%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W19		
Sampling Site			
Enthalpy ID	0325-1224-009-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 09:02	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	289.27
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-30 00:27	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	FR290425035	ND	0.220	0.553			U
	PFPeA	2706-90-3	FR290425035	ND	0.158	0.553			U
	PFHxA	307-24-4	FR290425035	ND	0.185	0.553			U
	PFHpA	375-85-9	S300425030	ND	0.194	0.553			U
	PFOA	335-67-1	FR290425035	ND	0.127	0.553			U
	PFNA	375-95-1	FR290425035	ND	0.125	0.553			U
	PFDA	335-76-2	FR290425035	ND	0.158	0.553			U
	PFUnDA	2058-94-8	FR290425035	ND	0.125	0.553			U
	PFDoDA	307-55-1	FR290425035	ND	0.225	0.553			U
	PFTrDA	72629-94-8	FR290425035	ND	0.183	0.553			U
	PFTeDA	376-06-7	FR290425035	ND	0.211	0.553			U
	PFHxDA	67905-19-5	FR290425035	ND	0.294	0.553			U
Sulfonates	PFBS	375-73-5	FR290425035	ND	0.294	0.553			U
	PFPeS	2706-91-4	FR290425035	ND	0.114	0.521			U
	PFHxS	355-46-4	FR290425035	ND	0.427	0.507			U
	PFHpS	375-92-8	FR290425035	ND	0.268	0.527			U
	PFOS	1763-23-1	S300425030	ND	0.292	0.512			U
	PFNS	68259-12-1	FR290425035	ND	0.172	0.533			U
	PFDS	335-77-3	FR290425035	ND	0.290	0.533			U
	4:2 FTS	757124-72-4	S300425030	ND	0.0717	0.518			U
	6:2 FTS	27619-97-2	FR290425035	ND	0.261	0.527			U
	8:2 FTS	39108-34-4	FR290425035	ND	0.124	0.530			U
	10:2 FTS	120226-60-0	FR290425035	ND	0.423	0.553			U
Sulfonamidos	FBSA	30334-69-1	FR290425035	ND	0.263	0.553			U
	N-EtFOSA	4151-50-2	FR290425035	ND	0.342	0.553			U
	N-EtFOSAA	2991-50-6	FR290425035	ND	0.225	0.553			U
	N-EtFOSE	1691-99-2	FR290425035	ND	0.847	2.49			U
	N-MeFOSA	31506-32-8	FR290425035	ND	0.228	0.553			U
	N-MeFOSAA	2355-31-9	FR290425035	ND	0.155	0.553			U
	N-MeFOSE	24448-09-7	FR290425035	ND	0.525	2.49			U
	PFOSA	754-91-6	FR290425035	ND	0.0776	0.553			U
PFECAs	ADONA	919005-14-4	FR290425035	ND	0.150	0.524			U
	EVE Acid	69087-46-3	FR290425035	ND	0.176	1.24			U
	HFPO-DA	13252-13-6	FR290425035	ND	0.0586	0.553			U
	Hydro-EVE Acid	773804-62-9	FR290425035	ND	0.181	0.553			U
	NFDHA	151772-58-6	S300425030	ND	0.116	0.553			U
	PEPA	267239-61-2	FR290425035	ND	0.104	0.553			U
	PFECA-G	801212-59-9	FR290425035	ND	0.0738	0.553			U
	PFMOAA	674-13-5	FR290425035	ND	0.280	0.553			U
	PFMOBA	863090-89-5	FR290425035	ND	0.928	1.24			U
	PFMOPrA	377-73-1	FR290425035	ND	0.197	0.553			U
	PFO2HxA	39492-88-1	FR290425035	ND	0.178	0.553			U
	PFO3OA	39492-89-2	FR290425035	ND	0.254	0.553			U
	PFO4DA	39492-90-5	FR290425035	ND	0.437	2.77			U
	PFO5DA	39492-91-6	S300425030	ND	0.442	2.77			U
	PMPA	13140-29-9	FR290425035	ND	0.130	0.553			U
	R-EVE	2416366-22-6	FR290425035	ND	0.918	1.24			U
PFESAs	11Cl-PF3OUdS	763051-92-9	S300425030	ND	0.261	0.521			U
	9Cl-PF3ONS	756426-58-1	S300425030	ND	0.354	0.515			U
	Hydrolyzed PSDA	2416366-19-1	FR290425035	ND	0.368	0.553			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	FR290425035	ND	0.296	0.553			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	FR290425035	ND	0.458	0.553			U
	NVHOS	1132933-86-8	FR290425035	ND	0.0852	0.553			U
	PFEESA	113507-82-7	S300425030	ND	0.166	0.553			U
	R-PSDA	2416366-18-0	FR290425035	ND	2.44	2.44			U
	R-PSDCA	2416366-21-5	FR290425035	ND	0.233	0.553			U
ES	MPFBA		FR290425035				20-150%	91.4%	
	M5PFPeA		FR290425035				20-150%	292%	Q
	M3PFBS		FR290425035				20-150%	67.0%	Ac
	M2-4:2 FTS		S300425030				20-150%	186%	Q
	M5PFHxA		FR290425035				20-150%	70.8%	
	M3HFPO-DA		FR290425035				20-150%	78.4%	
	M4PFHpA		S300425030				20-150%	95.6%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W19		
Sampling Site			
Enthalpy ID	0325-1224-009-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 09:02	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	289.27
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-30 00:27	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
Bottle ID	A		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
	M3PFHxS		FR290425035				20-150%	105%	
	M2-6:2 FTS		FR290425035				20-150%	152%	Q
	M8PFOA		FR290425035				20-150%	96.2%	
	M9PFNA		FR290425035				20-150%	85.7%	
	M8PFOS		S300425030				20-150%	91.0%	
	M2-8:2 FTS		FR290425035				20-150%	108%	
	M8FOSA-I		FR290425035				20-150%	67.8%	
	M6PFDA		FR290425035				20-150%	94.6%	
	d3-N-MeFOSAA		FR290425035				20-150%	80.8%	
	d5-N-EtFOSAA		FR290425035				20-150%	74.0%	
	M7PFUdA		FR290425035				20-150%	76.9%	
	MPFDoA		FR290425035				20-150%	56.5%	
	M2PFTeDA		FR290425035				20-150%	22.2%	
	d3-N-MeFOSA		FR290425035				10-200%	1.59%	Q
	d5-N-EtFOSA		FR290425035				10-200%	1.49%	Q
	d7-N-MeFOSE		FR290425035				10-200%	28.9%	
	d9-N-EtFOSE		FR290425035				10-200%	26.8%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W15		
Sampling Site			
Enthalpy ID	0325-1224-010-1	Prep Batch	EU19211
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 09:15	Instrument	Bumblebee
Received Date	2025-03-31	Sample Vol mL	0.1
Prep Date	2025-04-04 08:09	Extract Vol mL	0.2
AnalysisDate	2025-04-09 16:31	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	B090425-04091631	413	700	1530			L
ES	13C3-PFPrA		B090425-04091631				20-150%	82.6%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W15		
Sampling Site			
Enthalpy ID	0325-1224-010-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 09:15	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	290.01
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-30 00:50	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	FR290425036	ND	0.219	0.552			U
	PFPeA	2706-90-3	FR290425036	ND	0.158	0.552			U
	PFHxA	307-24-4	FR290425036	0.0763	0.184	0.552			L
	PFHpA	375-85-9	S300425031	ND	0.193	0.552			U
	PFOA	335-67-1	FR290425036	0.0371	0.126	0.552			L
	PFNA	375-95-1	FR290425036	ND	0.125	0.552			U
	PFDA	335-76-2	FR290425036	ND	0.158	0.552			U
	PFUnDA	2058-94-8	FR290425036	ND	0.125	0.552			U
	PFDoDA	307-55-1	FR290425036	ND	0.224	0.552			U
	PFTrDA	72629-94-8	FR290425036	ND	0.183	0.552			U
	PFTeDA	376-06-7	FR290425036	ND	0.210	0.552			U
	PFHxDA	67905-19-5	FR290425036	ND	0.293	0.552			U
Sulfonates	PFBS	375-73-5	FR290425036	ND	0.293	0.552			U
	PFPeS	2706-91-4	FR290425036	ND	0.113	0.520			U
	PFHxS	355-46-4	FR290425036	ND	0.426	0.505			U
	PFHpS	375-92-8	FR290425036	ND	0.267	0.526			U
	PFOS	1763-23-1	S300425031	ND	0.291	0.511			U
	PFNS	68259-12-1	FR290425036	ND	0.171	0.531			U
	PFDS	335-77-3	FR290425036	ND	0.290	0.531			U
	4:2 FTS	757124-72-4	S300425031	ND	0.0715	0.517			U
	6:2 FTS	27619-97-2	FR290425036	ND	0.260	0.526			U
	8:2 FTS	39108-34-4	FR290425036	ND	0.124	0.528			U
	10:2 FTS	120226-60-0	FR290425036	ND	0.422	0.552			U
Sulfonamidos	FBSA	30334-69-1	FR290425036	ND	0.262	0.552			U
	N-EtFOSA	4151-50-2	FR290425036	ND	0.341	0.552			U
	N-EtFOSAA	2991-50-6	FR290425036	ND	0.224	0.552			U
	N-EtFOSE	1691-99-2	FR290425036	ND	0.845	2.48			U
	N-MeFOSA	31506-32-8	FR290425036	ND	0.228	0.552			U
	N-MeFOSAA	2355-31-9	FR290425036	ND	0.155	0.552			U
	N-MeFOSE	24448-09-7	FR290425036	ND	0.524	2.48			U
	PFOSA	754-91-6	FR290425036	0.274	0.0774	0.552			J
PFECAs	ADONA	919005-14-4	FR290425036	ND	0.149	0.523			U
	EVE Acid	69087-46-3	FR290425036	ND	0.176	1.24			U
	HFPO-DA	13252-13-6	FR290425036	ND	0.0584	0.552			U
	Hydro-EVE Acid	773804-62-9	FR290425036	ND	0.181	0.552			U
	NFDHA	151772-58-6	S300425031	ND	0.116	0.552			U
	PEPA	267239-61-2	FR290425036	ND	0.103	0.552			U
	PFECA-G	801212-59-9	FR290425036	ND	0.0736	0.552			U
	PFMOAA	674-13-5	FR290425036	1.05	0.279	0.552			
	PFMOBA	863090-89-5	FR290425036	ND	0.926	1.24			U
	PFMOPrA	377-73-1	FR290425036	ND	0.197	0.552			U
	PFO2HxA	39492-88-1	FR290425036	ND	0.178	0.552			U
	PFO3OA	39492-89-2	FR290425036	ND	0.253	0.552			U
	PFO4DA	39492-90-5	FR290425036	ND	0.436	2.76			U
	PFO5DA	39492-91-6	S300425031	ND	0.441	2.76			U
	PMPA	13140-29-9	FR290425036	0.890	0.130	0.552			
	R-EVE	2416366-22-6	FR290425036	ND	0.915	1.24			U
PFESAs	11Cl-PF3OUdS	763051-92-9	S300425031	ND	0.260	0.520			U
	9Cl-PF3ONS	756426-58-1	S300425031	ND	0.353	0.514			U
	Hydrolyzed PSDA	2416366-19-1	FR290425036	ND	0.367	0.552			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	FR290425036	ND	0.295	0.552			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	FR290425036	ND	0.457	0.552			U
	NVHOS	1132933-86-8	FR290425036	ND	0.0850	0.552			U
	PFEESA	113507-82-7	S300425031	ND	0.166	0.552			U
	R-PSDA	2416366-18-0	FR290425036	ND	2.43	2.43			U
	R-PSDCA	2416366-21-5	FR290425036	ND	0.233	0.552			U
ES	MPFBA		FR290425036				20-150%	89.5%	
	M5PFPeA		FR290425036				20-150%	313%	Q
	M3PFBS		FR290425036				20-150%	54.4%	Ac
	M2-4:2 FTS		S300425031				20-150%	181%	Q
	M5PFHxA		FR290425036				20-150%	71.1%	
	M3HFPO-DA		FR290425036				20-150%	78.9%	
	M4PFHpA		S300425031				20-150%	101%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W15		
Sampling Site			
Enthalpy ID	0325-1224-010-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 09:15	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	290.01
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-30 00:50	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
Bottle ID	A		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
	M3PFHxS		FR290425036				20-150%	113%	
	M2-6:2 FTS		FR290425036				20-150%	153%	Q
	M8PFOA		FR290425036				20-150%	95.7%	
	M9PFNA		FR290425036				20-150%	78.5%	
	M8PFOS		S300425031				20-150%	82.4%	
	M2-8:2 FTS		FR290425036				20-150%	103%	
	M8FOSA-I		FR290425036				20-150%	55.1%	
	M6PFDA		FR290425036				20-150%	95.1%	
	d3-N-MeFOSAA		FR290425036				20-150%	80.4%	
	d5-N-EtFOSAA		FR290425036				20-150%	71.7%	
	M7PFUdA		FR290425036				20-150%	68.3%	
	MPFDoA		FR290425036				20-150%	45.2%	
	M2PFTeDA		FR290425036				20-150%	14.7%	Q
	d3-N-MeFOSA		FR290425036				10-200%	1.62%	Q
	d5-N-EtFOSA		FR290425036				10-200%	1.34%	Q
	d7-N-MeFOSE		FR290425036				10-200%	22.3%	
	d9-N-EtFOSE		FR290425036				10-200%	19.2%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W8		
Sampling Site			
Enthalpy ID	0325-1224-011-1	Prep Batch	EU19211
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 09:22	Instrument	Bumblebee
Received Date	2025-03-31	Sample Vol mL	0.1
Prep Date	2025-04-04 08:09	Extract Vol mL	0.2
AnalysisDate	2025-04-09 16:43	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	B090425-04091643	411	700	1530			L
ES	13C3-PFPrA		B090425-04091643				20-150%	82.4%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W8		
Sampling Site			
Enthalpy ID	0325-1224-011-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 09:22	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	289.59
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-30 01:35	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	FR290425038	ND	0.219	0.553			U
	PFPeA	2706-90-3	FR290425038	ND	0.158	0.553			U
	PFHxA	307-24-4	FR290425038	ND	0.185	0.553			U
	PFHpA	375-85-9	FR290425038	ND	0.193	0.553			U
	PFOA	335-67-1	FR290425038	ND	0.126	0.553			U
	PFNA	375-95-1	FR290425038	ND	0.125	0.553			U
	PFDA	335-76-2	FR290425038	ND	0.158	0.553			U
	PFUnDA	2058-94-8	FR290425038	ND	0.125	0.553			U
	PFDoDA	307-55-1	FR290425038	ND	0.224	0.553			U
	PFTrDA	72629-94-8	FR290425038	ND	0.183	0.553			U
	PFTeDA	376-06-7	FR290425038	ND	0.211	0.553			U
	PFHxDA	67905-19-5	FR290425038	ND	0.294	0.553			U
Sulfonates	PFBS	375-73-5	FR290425038	ND	0.294	0.553			U
	PFPeS	2706-91-4	FR290425038	ND	0.113	0.521			U
	PFHxS	355-46-4	FR290425038	ND	0.426	0.506			U
	PFHpS	375-92-8	FR290425038	ND	0.268	0.526			U
	PFOS	1763-23-1	FR290425038	ND	0.292	0.512			U
	PFNS	68259-12-1	FR290425038	ND	0.171	0.532			U
	PFDS	335-77-3	FR290425038	ND	0.290	0.532			U
	4:2 FTS	757124-72-4	S300425033	ND	0.0717	0.518			U
	6:2 FTS	27619-97-2	FR290425038	ND	0.261	0.526			U
	8:2 FTS	39108-34-4	FR290425038	0.00431	0.124	0.529			L
	10:2 FTS	120226-60-0	FR290425038	ND	0.423	0.553			U
Sulfonamidos	FBSA	30334-69-1	FR290425038	ND	0.262	0.553			U
	N-EtFOSA	4151-50-2	FR290425038	ND	0.342	0.553			U
	N-EtFOSAA	2991-50-6	FR290425038	ND	0.224	0.553			U
	N-EtFOSE	1691-99-2	FR290425038	ND	0.846	2.49			U
	N-MeFOSA	31506-32-8	FR290425038	ND	0.228	0.553			U
	N-MeFOSAA	2355-31-9	FR290425038	ND	0.155	0.553			U
	N-MeFOSE	24448-09-7	FR290425038	ND	0.525	2.49			U
	PFOSA	754-91-6	FR290425038	ND	0.0775	0.553			U
PFECAs	ADONA	919005-14-4	FR290425038	ND	0.150	0.523			U
	EVE Acid	69087-46-3	FR290425038	ND	0.176	1.24			U
	HFPO-DA	13252-13-6	FR290425038	ND	0.0585	0.553			U
	Hydro-EVE Acid	773804-62-9	FR290425038	ND	0.181	0.553			U
	NFDHA	151772-58-6	S300425033	ND	0.116	0.553			U
	PEPA	267239-61-2	FR290425038	ND	0.104	0.553			U
	PFECA-G	801212-59-9	FR290425038	ND	0.0737	0.553			U
	PFMOAA	674-13-5	FR290425038	ND	0.280	0.553			U
	PFMOBA	863090-89-5	FR290425038	ND	0.927	1.24			U
	PFMOPrA	377-73-1	FR290425038	ND	0.197	0.553			U
	PFO2HxA	39492-88-1	FR290425038	ND	0.178	0.553			U
	PFO3OA	39492-89-2	FR290425038	ND	0.254	0.553			U
	PFO4DA	39492-90-5	FR290425038	ND	0.437	2.76			U
	PFO5DA	39492-91-6	S300425033	ND	0.442	2.76			U
	PMPA	13140-29-9	FR290425038	ND	0.130	0.553			U
	R-EVE	2416366-22-6	FR290425038	ND	0.917	1.24			U
PFESAs	11Cl-PF3OUdS	763051-92-9	FR290425038	ND	0.261	0.521			U
	9Cl-PF3ONS	756426-58-1	S300425033	ND	0.354	0.515			U
	Hydrolyzed PSDA	2416366-19-1	FR290425038	ND	0.368	0.553			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	FR290425038	ND	0.295	0.553			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	FR290425038	ND	0.458	0.553			U
	NVHOS	1132933-86-8	FR290425038	ND	0.0851	0.553			U
	PFEESA	113507-82-7	S300425033	ND	0.166	0.553			U
	R-PSDA	2416366-18-0	FR290425038	ND	2.43	2.43			U
	R-PSDCA	2416366-21-5	FR290425038	ND	0.233	0.553			U
ES	MPFBA		FR290425038				20-150%	94.8%	
	M5PFPeA		FR290425038				20-150%	271%	Q
	M3PFBS		FR290425038				20-150%	43.9%	Ac
	M2-4:2 FTS		S300425033				20-150%	195%	Q
	M5PFHxA		FR290425038				20-150%	74.4%	
	M3HFPO-DA		FR290425038				20-150%	77.6%	
	M4PFHpA		FR290425038				20-150%	89.8%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W8		
Sampling Site			
Enthalpy ID	0325-1224-011-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 09:22	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	289.59
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-30 01:35	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
Bottle ID	A		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
	M3PFHxS		FR290425038				20-150%	109%	
	M2-6:2 FTS		FR290425038				20-150%	147%	
	M8PFOA		FR290425038				20-150%	94.8%	
	M9PFNA		FR290425038				20-150%	81.9%	
	M8PFOS		FR290425038				20-150%	92.7%	
	M2-8:2 FTS		FR290425038				20-150%	107%	
	M8FOSA-I		FR290425038				20-150%	56.5%	
	M6PFDA		FR290425038				20-150%	93.8%	
	d3-N-MeFOSAA		FR290425038				20-150%	84.1%	
	d5-N-EtFOSAA		FR290425038				20-150%	77.9%	
	M7PFUdA		FR290425038				20-150%	76.2%	
	MPFDoA		FR290425038				20-150%	56.1%	
	M2PFTeDA		FR290425038				20-150%	24.3%	
	d3-N-MeFOSA		FR290425038				10-200%	1.37%	Q
	d5-N-EtFOSA		FR290425038				10-200%	1.17%	Q
	d7-N-MeFOSE		FR290425038				10-200%	29.0%	
	d9-N-EtFOSE		FR290425038				10-200%	27.9%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W12A		
Sampling Site			
Enthalpy ID	0325-1224-012-1	Prep Batch	EU19211
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 09:40	Instrument	Bumblebee
Received Date	2025-03-31	Sample Vol mL	0.1
Prep Date	2025-04-04 08:09	Extract Vol mL	0.2
AnalysisDate	2025-04-09 16:55	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	B090425-04091655	429	700	1530			L
ES	13C3-PFPrA		B090425-04091655				20-150%	89.8%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W12A		
Sampling Site			
Enthalpy ID	0325-1224-012-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 09:40	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	284.49
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-30 01:58	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	FR290425039	ND	0.223	0.562			U
	PFPeA	2706-90-3	FR290425039	ND	0.161	0.562			U
	PFHxA	307-24-4	FR290425039	ND	0.188	0.562			U
	PFHpA	375-85-9	FR290425039	ND	0.197	0.562			U
	PFOA	335-67-1	FR290425039	ND	0.129	0.562			U
	PFNA	375-95-1	FR290425039	ND	0.127	0.562			U
	PFDA	335-76-2	FR290425039	ND	0.161	0.562			U
	PFUnDA	2058-94-8	FR290425039	ND	0.127	0.562			U
	PFDoDA	307-55-1	FR290425039	ND	0.228	0.562			U
	PFTrDA	72629-94-8	FR290425039	ND	0.186	0.562			U
	PFTeDA	376-06-7	FR290425039	ND	0.214	0.562			U
	PFHxDA	67905-19-5	FR290425039	ND	0.299	0.562			U
Sulfonates	PFBS	375-73-5	FR290425039	ND	0.299	0.562			U
	PFPeS	2706-91-4	FR290425039	ND	0.115	0.530			U
	PFHxS	355-46-4	FR290425039	ND	0.434	0.515			U
	PFHpS	375-92-8	FR290425039	ND	0.272	0.536			U
	PFOS	1763-23-1	FR290425039	ND	0.297	0.521			U
	PFNS	68259-12-1	FR290425039	ND	0.175	0.542			U
	PFDS	335-77-3	FR290425039	ND	0.295	0.542			U
	4:2 FTS	757124-72-4	S300425034	ND	0.0729	0.527			U
	6:2 FTS	27619-97-2	FR290425039	ND	0.265	0.536			U
	8:2 FTS	39108-34-4	FR290425039	ND	0.126	0.539			U
	10:2 FTS	120226-60-0	FR290425039	ND	0.431	0.562			U
Sulfonamidos	FBSA	30334-69-1	FR290425039	ND	0.267	0.562			U
	N-EtFOSA	4151-50-2	FR290425039	ND	0.348	0.562			U
	N-EtFOSAA	2991-50-6	FR290425039	ND	0.228	0.562			U
	N-EtFOSE	1691-99-2	FR290425039	ND	0.861	2.53			U
	N-MeFOSA	31506-32-8	FR290425039	ND	0.232	0.562			U
	N-MeFOSAA	2355-31-9	FR290425039	ND	0.158	0.562			U
	N-MeFOSE	24448-09-7	FR290425039	ND	0.534	2.53			U
	PFOSA	754-91-6	FR290425039	ND	0.0789	0.562			U
PFECAs	ADONA	919005-14-4	FR290425039	ND	0.152	0.533			U
	EVE Acid	69087-46-3	FR290425039	ND	0.179	1.27			U
	HFPO-DA	13252-13-6	FR290425039	0.0402	0.0596	0.562			L
	Hydro-EVE Acid	773804-62-9	FR290425039	ND	0.185	0.562			U
	NFDHA	151772-58-6	S300425034	ND	0.118	0.562			U
	PEPA	267239-61-2	FR290425039	ND	0.105	0.562			U
	PFECA-G	801212-59-9	FR290425039	ND	0.0750	0.562			U
	PFMOAA	674-13-5	FR290425039	3.65	0.285	0.562			
	PFMOBA	863090-89-5	FR290425039	ND	0.944	1.27			U
	PFMOPrA	377-73-1	FR290425039	ND	0.200	0.562			U
	PFO2HxA	39492-88-1	FR290425039	ND	0.181	0.562			U
	PFO3OA	39492-89-2	FR290425039	ND	0.258	0.562			U
	PFO4DA	39492-90-5	FR290425039	ND	0.445	2.81			U
	PFO5DA	39492-91-6	S300425034	ND	0.450	2.81			U
	PMPA	13140-29-9	FR290425039	0.297	0.133	0.562			J
	R-EVE	2416366-22-6	FR290425039	ND	0.933	1.27			U
PFESAs	11Cl-PF3OUdS	763051-92-9	FR290425039	ND	0.265	0.530			U
	9Cl-PF3ONS	756426-58-1	S300425034	ND	0.360	0.524			U
	Hydrolyzed PSDA	2416366-19-1	FR290425039	ND	0.374	0.562			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	FR290425039	ND	0.301	0.562			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	FR290425039	ND	0.466	0.562			U
	NVHOS	1132933-86-8	FR290425039	ND	0.0866	0.562			U
	PFEESA	113507-82-7	S300425034	ND	0.169	0.562			U
	R-PSDA	2416366-18-0	FR290425039	ND	2.48	2.48			U
	R-PSDCA	2416366-21-5	FR290425039	ND	0.237	0.562			U
ES	MPFBA		FR290425039				20-150%	91.0%	
	M5PFPeA		FR290425039				20-150%	289%	Q
	M3PFBS		FR290425039				20-150%	54.2%	Ac
	M2-4:2 FTS		S300425034				20-150%	174%	Q
	M5PFHxA		FR290425039				20-150%	74.2%	
	M3HFPO-DA		FR290425039				20-150%	76.2%	
	M4PFHpA		FR290425039				20-150%	88.1%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W12A		
Sampling Site			
Enthalpy ID	0325-1224-012-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 09:40	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	284.49
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-30 01:58	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
Bottle ID	A		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
	M3PFHxS		FR290425039				20-150%	109%	
	M2-6:2 FTS		FR290425039				20-150%	148%	
	M8PFOA		FR290425039				20-150%	92.6%	
	M9PFNA		FR290425039				20-150%	75.4%	
	M8PFOS		FR290425039				20-150%	81.6%	
	M2-8:2 FTS		FR290425039				20-150%	84.4%	
	M8FOSA-I		FR290425039				20-150%	48.5%	
	M6PFDA		FR290425039				20-150%	81.3%	
	d3-N-MeFOSAA		FR290425039				20-150%	60.9%	
	d5-N-EtFOSAA		FR290425039				20-150%	51.0%	
	M7PFUdA		FR290425039				20-150%	53.6%	
	MPFDoA		FR290425039				20-150%	32.0%	
	M2PFTeDA		FR290425039				20-150%	7.27%	Q
	d3-N-MeFOSA		FR290425039				10-200%	0.248%	Q
	d5-N-EtFOSA		FR290425039				10-200%	0.232%	Q
	d7-N-MeFOSE		FR290425039				10-200%	18.1%	
	d9-N-EtFOSE		FR290425039				10-200%	14.4%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W12		
Sampling Site			
Enthalpy ID	0325-1224-013-1	Prep Batch	EU19211
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 09:48	Instrument	Bumblebee
Received Date	2025-03-31	Sample Vol mL	0.1
Prep Date	2025-04-04 08:09	Extract Vol mL	0.2
AnalysisDate	2025-04-09 17:06	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	B090425-04091706	414	700	1530			L
ES	13C3-PFPrA		B090425-04091706				20-150%	82.9%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W12		
Sampling Site			
Enthalpy ID	0325-1224-013-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 09:48	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	290.51
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-30 02:21	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	FR290425040	ND	0.219	0.551			U
	PFPeA	2706-90-3	FR290425040	ND	0.157	0.551			U
	PFHxA	307-24-4	FR290425040	0.134	0.184	0.551			L
	PFHpA	375-85-9	FR290425040	ND	0.193	0.551			U
	PFOA	335-67-1	FR290425040	0.122	0.126	0.551			L
	PFNA	375-95-1	FR290425040	ND	0.124	0.551			U
	PFDA	335-76-2	FR290425040	ND	0.157	0.551			U
	PFUnDA	2058-94-8	FR290425040	ND	0.124	0.551			U
	PFDoDA	307-55-1	FR290425040	ND	0.224	0.551			U
	PFTrDA	72629-94-8	FR290425040	ND	0.182	0.551			U
	PFTeDA	376-06-7	FR290425040	ND	0.210	0.551			U
	PFHxDA	67905-19-5	FR290425040	ND	0.293	0.551			U
Sulfonates	PFBS	375-73-5	FR290425040	ND	0.293	0.551			U
	PFPeS	2706-91-4	FR290425040	ND	0.113	0.519			U
	PFHxS	355-46-4	FR290425040	0.868	0.425	0.504			
	PFHpS	375-92-8	FR290425040	ND	0.267	0.525			U
	PFOS	1763-23-1	FR290425040	4.52	0.291	0.510			
	PFNS	68259-12-1	FR290425040	ND	0.171	0.530			U
	PFDS	335-77-3	FR290425040	ND	0.289	0.530			U
	4:2 FTS	757124-72-4	S300425035	ND	0.0714	0.516			U
	6:2 FTS	27619-97-2	FR290425040	ND	0.260	0.525			U
	8:2 FTS	39108-34-4	FR290425040	ND	0.123	0.528			U
	10:2 FTS	120226-60-0	FR290425040	ND	0.422	0.551			U
Sulfonamidos	FBSA	30334-69-1	FR290425040	ND	0.262	0.551			U
	N-EtFOSA	4151-50-2	FR290425040	ND	0.341	0.551			U
	N-EtFOSAA	2991-50-6	FR290425040	ND	0.224	0.551			U
	N-EtFOSE	1691-99-2	FR290425040	ND	0.843	2.48			U
	N-MeFOSA	31506-32-8	FR290425040	ND	0.227	0.551			U
	N-MeFOSAA	2355-31-9	FR290425040	ND	0.155	0.551			U
	N-MeFOSE	24448-09-7	FR290425040	ND	0.523	2.48			U
	PFOSA	754-91-6	FR290425040	ND	0.0773	0.551			U
PFECAs	ADONA	919005-14-4	FR290425040	ND	0.149	0.522			U
	EVE Acid	69087-46-3	FR290425040	ND	0.176	1.24			U
	HFPO-DA	13252-13-6	FR290425040	0.0872	0.0583	0.551			J
	Hydro-EVE Acid	773804-62-9	FR290425040	ND	0.181	0.551			U
	NFDHA	151772-58-6	S300425035	ND	0.116	0.551			U
	PEPA	267239-61-2	FR290425040	ND	0.103	0.551			U
	PFECA-G	801212-59-9	FR290425040	ND	0.0735	0.551			U
	PFMOAA	674-13-5	FR290425040	14.7	0.279	0.551			
	PFMOBA	863090-89-5	FR290425040	ND	0.924	1.24			U
	PFMOPrA	377-73-1	FR290425040	ND	0.196	0.551			U
	PFO2HxA	39492-88-1	FR290425040	ND	0.177	0.551			U
	PFO3OA	39492-89-2	FR290425040	ND	0.253	0.551			U
	PFO4DA	39492-90-5	FR290425040	ND	0.435	2.75			U
	PFO5DA	39492-91-6	S300425035	ND	0.441	2.75			U
	PMPA	13140-29-9	FR290425040	0.416	0.130	0.551			J
	R-EVE	2416366-22-6	FR290425040	ND	0.914	1.24			U
PFESAs	11Cl-PF3OUdS	763051-92-9	FR290425040	ND	0.260	0.519			U
	9Cl-PF3ONS	756426-58-1	S300425035	ND	0.353	0.513			U
	Hydrolyzed PSDA	2416366-19-1	FR290425040	ND	0.367	0.551			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	FR290425040	ND	0.294	0.551			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	FR290425040	ND	0.456	0.551			U
	NVHOS	1132933-86-8	FR290425040	ND	0.0849	0.551			U
	PFEESA	113507-82-7	S300425035	ND	0.166	0.551			U
	R-PSDA	2416366-18-0	FR290425040	ND	2.43	2.43			U
	R-PSDCA	2416366-21-5	FR290425040	ND	0.232	0.551			U
ES	MPFBA		FR290425040				20-150%	89.4%	
	M5PFPeA		FR290425040				20-150%	296%	Q
	M3PFBS		FR290425040				20-150%	40.6%	Ac
	M2-4:2 FTS		S300425035				20-150%	167%	Q
	M5PFHxA		FR290425040				20-150%	69.7%	
	M3HFPO-DA		FR290425040				20-150%	75.2%	
	M4PFHpA		FR290425040				20-150%	86.0%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W12		
Sampling Site			
Enthalpy ID	0325-1224-013-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 09:48	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	290.51
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-30 02:21	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
Bottle ID	A		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
	M3PFHxS		FR290425040				20-150%	103%	
	M2-6:2 FTS		FR290425040				20-150%	140%	
	M8PFOA		FR290425040				20-150%	93.4%	
	M9PFNA		FR290425040				20-150%	82.0%	
	M8PFOS		FR290425040				20-150%	86.4%	
	M2-8:2 FTS		FR290425040				20-150%	97.6%	
	M8FOSA-I		FR290425040				20-150%	63.6%	
	M6PFDA		FR290425040				20-150%	91.6%	
	d3-N-MeFOSAA		FR290425040				20-150%	73.1%	
	d5-N-EtFOSAA		FR290425040				20-150%	66.0%	
	M7PFUdA		FR290425040				20-150%	66.4%	
	MPFDoA		FR290425040				20-150%	43.3%	
	M2PFTeDA		FR290425040				20-150%	15.6%	Q
	d3-N-MeFOSA		FR290425040				10-200%	2.26%	Q
	d5-N-EtFOSA		FR290425040				10-200%	1.91%	Q
	d7-N-MeFOSE		FR290425040				10-200%	25.2%	
	d9-N-EtFOSE		FR290425040				10-200%	21.4%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W11		
Sampling Site			
Enthalpy ID	0325-1224-014-1	Prep Batch	EU19211
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 10:00	Instrument	Bumblebee
Received Date	2025-03-31	Sample Vol mL	0.1
Prep Date	2025-04-04 08:09	Extract Vol mL	0.2
AnalysisDate	2025-04-09 17:18	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	B090425-04091718	416	700	1530			L
ES	13C3-PFPrA		B090425-04091718				20-150%	74.9%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W11		
Sampling Site			
Enthalpy ID	0325-1224-014-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 10:00	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	284.02
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-30 02:44	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	FR290425041	ND	0.224	0.563			U
	PFPeA	2706-90-3	FR290425041	ND	0.161	0.563			U
	PFHxA	307-24-4	FR290425041	0.128	0.188	0.563			L
	PFHpA	375-85-9	FR290425041	ND	0.197	0.563			U
	PFOA	335-67-1	FR290425041	0.00201	0.129	0.563			L
	PFNA	375-95-1	FR290425041	ND	0.127	0.563			U
	PFDA	335-76-2	FR290425041	ND	0.161	0.563			U
	PFUnDA	2058-94-8	FR290425041	ND	0.127	0.563			U
	PFDoDA	307-55-1	FR290425041	ND	0.229	0.563			U
	PFTrDA	72629-94-8	FR290425041	ND	0.187	0.563			U
	PFTeDA	376-06-7	FR290425041	ND	0.215	0.563			U
	PFHxDA	67905-19-5	FR290425041	ND	0.299	0.563			U
Sulfonates	PFBS	375-73-5	FR290425041	ND	0.299	0.563			U
	PFPeS	2706-91-4	FR290425041	ND	0.116	0.531			U
	PFHxS	355-46-4	FR290425041	ND	0.435	0.516			U
	PFHpS	375-92-8	FR290425041	ND	0.273	0.537			U
	PFOS	1763-23-1	FR290425041	ND	0.298	0.522			U
	PFNS	68259-12-1	FR290425041	ND	0.175	0.543			U
	PFDS	335-77-3	FR290425041	ND	0.296	0.543			U
	4:2 FTS	757124-72-4	S300425036	ND	0.0731	0.528			U
	6:2 FTS	27619-97-2	FR290425041	ND	0.266	0.537			U
	8:2 FTS	39108-34-4	FR290425041	ND	0.126	0.540			U
	10:2 FTS	120226-60-0	FR290425041	ND	0.431	0.563			U
Sulfonamidos	FBSA	30334-69-1	FR290425041	ND	0.268	0.563			U
	N-EtFOSA	4151-50-2	FR290425041	ND	0.349	0.563			U
	N-EtFOSAA	2991-50-6	FR290425041	ND	0.229	0.563			U
	N-EtFOSE	1691-99-2	FR290425041	ND	0.863	2.54			U
	N-MeFOSA	31506-32-8	FR290425041	ND	0.232	0.563			U
	N-MeFOSAA	2355-31-9	FR290425041	ND	0.158	0.563			U
	N-MeFOSE	24448-09-7	FR290425041	ND	0.535	2.54			U
	PFOSA	754-91-6	FR290425041	ND	0.0790	0.563			U
PFECAs	ADONA	919005-14-4	FR290425041	ND	0.153	0.534			U
	EVE Acid	69087-46-3	FR290425041	ND	0.180	1.27			U
	HFPO-DA	13252-13-6	FR290425041	0.0774	0.0597	0.563			J
	Hydro-EVE Acid	773804-62-9	FR290425041	ND	0.185	0.563			U
	NFDHA	151772-58-6	S300425036	ND	0.118	0.563			U
	PEPA	267239-61-2	FR290425041	ND	0.106	0.563			U
	PFECA-G	801212-59-9	FR290425041	ND	0.0752	0.563			U
	PFMOAA	674-13-5	FR290425041	8.16	0.285	0.563			
	PFMOBA	863090-89-5	FR290425041	ND	0.945	1.27			U
	PFMOPrA	377-73-1	FR290425041	ND	0.201	0.563			U
	PFO2HxA	39492-88-1	FR290425041	ND	0.181	0.563			U
	PFO3OA	39492-89-2	FR290425041	ND	0.259	0.563			U
	PFO4DA	39492-90-5	FR290425041	ND	0.445	2.82			U
	PFO5DA	39492-91-6	S300425036	ND	0.451	2.82			U
	PMPA	13140-29-9	FR290425041	ND	0.133	0.563			U
	R-EVE	2416366-22-6	FR290425041	ND	0.935	1.27			U
PFESAs	11Cl-PF3OUdS	763051-92-9	FR290425041	ND	0.266	0.531			U
	9Cl-PF3ONS	756426-58-1	S300425036	ND	0.361	0.525			U
	Hydrolyzed PSDA	2416366-19-1	FR290425041	ND	0.375	0.563			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	FR290425041	ND	0.301	0.563			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	FR290425041	ND	0.467	0.563			U
	NVHOS	1132933-86-8	FR290425041	ND	0.0868	0.563			U
	PFEESA	113507-82-7	S300425036	ND	0.169	0.563			U
	R-PSDA	2416366-18-0	FR290425041	ND	2.48	2.48			U
	R-PSDCA	2416366-21-5	FR290425041	ND	0.238	0.563			U
ES	MPFBA		FR290425041				20-150%	96.0%	
	M5PFPeA		FR290425041				20-150%	319%	Q
	M3PFBS		FR290425041				20-150%	47.5%	Ac
	M2-4:2 FTS		S300425036				20-150%	172%	Q
	M5PFHxA		FR290425041				20-150%	68.4%	
	M3HFPO-DA		FR290425041				20-150%	76.2%	
	M4PFHpA		FR290425041				20-150%	85.2%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-W11		
Sampling Site			
Enthalpy ID	0325-1224-014-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 10:00	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	284.02
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-30 02:44	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
Bottle ID	A		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
	M3PFHxS		FR290425041				20-150%	104%	
	M2-6:2 FTS		FR290425041				20-150%	141%	
	M8PFOA		FR290425041				20-150%	93.1%	
	M9PFNA		FR290425041				20-150%	80.8%	
	M8PFOS		FR290425041				20-150%	87.0%	
	M2-8:2 FTS		FR290425041				20-150%	99.5%	
	M8FOSA-I		FR290425041				20-150%	54.5%	
	M6PFDA		FR290425041				20-150%	90.4%	
	d3-N-MeFOSAA		FR290425041				20-150%	77.8%	
	d5-N-EtFOSAA		FR290425041				20-150%	71.7%	
	M7PFUdA		FR290425041				20-150%	70.9%	
	MPFDoA		FR290425041				20-150%	48.1%	
	M2PFTeDA		FR290425041				20-150%	15.9%	Q
	d3-N-MeFOSA		FR290425041				10-200%	1.14%	Q
	d5-N-EtFOSA		FR290425041				10-200%	1.06%	Q
	d7-N-MeFOSE		FR290425041				10-200%	20.6%	
	d9-N-EtFOSE		FR290425041				10-200%	16.7%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-S02		
Sampling Site			
Enthalpy ID	0325-1224-015-1	Prep Batch	EU19211
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 07:40	Instrument	Bumblebee
Received Date	2025-03-31	Sample Vol mL	0.1
Prep Date	2025-04-04 08:09	Extract Vol mL	0.2
AnalysisDate	2025-04-09 17:29	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	B090425-04091729	408	700	1530			L
ES	13C3-PFPrA		B090425-04091729				20-150%	84.1%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-S02		
Sampling Site			
Enthalpy ID	0325-1224-015-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 07:40	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	282.81
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-30 03:07	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	FR290425042	ND	0.225	0.566			U
	PFPeA	2706-90-3	FR290425042	ND	0.162	0.566			U
	PFHxA	307-24-4	FR290425042	ND	0.189	0.566			U
	PFHpA	375-85-9	FR290425042	ND	0.198	0.566			U
	PFOA	335-67-1	FR290425042	ND	0.129	0.566			U
	PFNA	375-95-1	FR290425042	ND	0.128	0.566			U
	PFDA	335-76-2	FR290425042	ND	0.162	0.566			U
	PFUnDA	2058-94-8	FR290425042	ND	0.128	0.566			U
	PFDoDA	307-55-1	FR290425042	ND	0.230	0.566			U
	PFTrDA	72629-94-8	FR290425042	ND	0.187	0.566			U
	PFTeDA	376-06-7	FR290425042	ND	0.216	0.566			U
	PFHxDA	67905-19-5	FR290425042	ND	0.301	0.566			U
Sulfonates	PFBS	375-73-5	FR290425042	ND	0.301	0.566			U
	PFPeS	2706-91-4	FR290425042	ND	0.116	0.533			U
	PFHxS	355-46-4	FR290425042	ND	0.437	0.518			U
	PFHpS	375-92-8	FR290425042	ND	0.274	0.539			U
	PFOS	1763-23-1	FR290425042	ND	0.299	0.524			U
	PFNS	68259-12-1	FR290425042	ND	0.176	0.545			U
	PFDS	335-77-3	FR290425042	ND	0.297	0.545			U
	4:2 FTS	757124-72-4	S300425037	ND	0.0734	0.530			U
	6:2 FTS	27619-97-2	FR290425042	ND	0.267	0.539			U
	8:2 FTS	39108-34-4	FR290425042	ND	0.127	0.542			U
	10:2 FTS	120226-60-0	FR290425042	ND	0.433	0.566			U
Sulfonamidos	FBSA	30334-69-1	FR290425042	ND	0.269	0.566			U
	N-EtFOSA	4151-50-2	FR290425042	ND	0.350	0.566			U
	N-EtFOSAA	2991-50-6	FR290425042	ND	0.230	0.566			U
	N-EtFOSE	1691-99-2	FR290425042	ND	0.866	2.55			U
	N-MeFOSA	31506-32-8	FR290425042	ND	0.233	0.566			U
	N-MeFOSAA	2355-31-9	FR290425042	ND	0.159	0.566			U
	N-MeFOSE	24448-09-7	FR290425042	ND	0.537	2.55			U
	PFOSA	754-91-6	FR290425042	ND	0.0794	0.566			U
PFECAs	ADONA	919005-14-4	FR290425042	ND	0.153	0.536			U
	EVE Acid	69087-46-3	FR290425042	ND	0.180	1.27			U
	HFPO-DA	13252-13-6	FR290425042	ND	0.0599	0.566			U
	Hydro-EVE Acid	773804-62-9	FR290425042	ND	0.186	0.566			U
	NFDHA	151772-58-6	S300425037	ND	0.119	0.566			U
	PEPA	267239-61-2	FR290425042	ND	0.106	0.566			U
	PFECA-G	801212-59-9	FR290425042	ND	0.0755	0.566			U
	PFMOAA	674-13-5	FR290425042	0.996	0.286	0.566			
	PFMOBA	863090-89-5	FR290425042	ND	0.949	1.27			U
	PFMOPrA	377-73-1	FR290425042	ND	0.202	0.566			U
	PFO2HxA	39492-88-1	FR290425042	ND	0.182	0.566			U
	PFO3OA	39492-89-2	FR290425042	ND	0.260	0.566			U
	PFO4DA	39492-90-5	FR290425042	ND	0.447	2.83			U
	PFO5DA	39492-91-6	S300425037	ND	0.453	2.83			U
	PMPA	13140-29-9	FR290425042	ND	0.133	0.566			U
	R-EVE	2416366-22-6	FR290425042	ND	0.939	1.27			U
PFESAs	11Cl-PF3OUdS	763051-92-9	FR290425042	ND	0.267	0.533			U
	9Cl-PF3ONS	756426-58-1	S300425037	ND	0.362	0.527			U
	Hydrolyzed PSDA	2416366-19-1	FR290425042	ND	0.377	0.566			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	FR290425042	ND	0.302	0.566			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	FR290425042	ND	0.469	0.566			U
	NVHOS	1132933-86-8	FR290425042	ND	0.0872	0.566			U
	PFEESA	113507-82-7	S300425037	ND	0.170	0.566			U
	R-PSDA	2416366-18-0	FR290425042	ND	2.49	2.49			U
	R-PSDCA	2416366-21-5	FR290425042	ND	0.239	0.566			U
ES	MPFBA		FR290425042				20-150%	93.9%	
	M5PFPeA		FR290425042				20-150%	297%	Q
	M3PFBS		FR290425042				20-150%	52.7%	Ac
	M2-4:2 FTS		S300425037				20-150%	191%	Q
	M5PFHxA		FR290425042				20-150%	73.1%	
	M3HFPO-DA		FR290425042				20-150%	77.3%	
	M4PFHpA		FR290425042				20-150%	88.3%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-S02		
Sampling Site			
Enthalpy ID	0325-1224-015-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 07:40	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	282.81
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-30 03:07	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
Bottle ID	A		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
	M3PFHxS		FR290425042				20-150%	107%	
	M2-6:2 FTS		FR290425042				20-150%	146%	
	M8PFOA		FR290425042				20-150%	92.9%	
	M9PFNA		FR290425042				20-150%	80.5%	
	M8PFOS		FR290425042				20-150%	88.0%	
	M2-8:2 FTS		FR290425042				20-150%	96.7%	
	M8FOSA-I		FR290425042				20-150%	48.2%	
	M6PFDA		FR290425042				20-150%	91.1%	
	d3-N-MeFOSAA		FR290425042				20-150%	72.9%	
	d5-N-EtFOSAA		FR290425042				20-150%	65.2%	
	M7PFUdA		FR290425042				20-150%	64.8%	
	MPFDoA		FR290425042				20-150%	37.9%	
	M2PFTeDA		FR290425042				20-150%	8.80%	Q
	d3-N-MeFOSA		FR290425042				10-200%	0.748%	Q
	d5-N-EtFOSA		FR290425042				10-200%	0.559%	Q
	d7-N-MeFOSE		FR290425042				10-200%	18.5%	
	d9-N-EtFOSE		FR290425042				10-200%	15.0%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-E02		
Sampling Site			
Enthalpy ID	0325-1224-016-1	Prep Batch	EU19211
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 07:42	Instrument	Bumblebee
Received Date	2025-03-31	Sample Vol mL	0.1
Prep Date	2025-04-04 08:09	Extract Vol mL	0.2
AnalysisDate	2025-04-09 17:41	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	B090425-04091741	417	700	1530			L
ES	13C3-PFPrA		B090425-04091741				20-150%	88.5%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-E02		
Sampling Site			
Enthalpy ID	0325-1224-016-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 07:42	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	285.62
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-30 03:30	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
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	FR290425043	ND	0.222	0.560			U
	PFPeA	2706-90-3	FR290425043	ND	0.160	0.560			U
	PFHxA	307-24-4	FR290425043	ND	0.187	0.560			U
	PFHpA	375-85-9	FR290425043	ND	0.196	0.560			U
	PFOA	335-67-1	FR290425043	ND	0.128	0.560			U
	PFNA	375-95-1	FR290425043	ND	0.127	0.560			U
	PFDA	335-76-2	FR290425043	ND	0.160	0.560			U
	PFUnDA	2058-94-8	FR290425043	ND	0.127	0.560			U
	PFDoDA	307-55-1	FR290425043	ND	0.228	0.560			U
	PFTrDA	72629-94-8	FR290425043	ND	0.186	0.560			U
	PFTeDA	376-06-7	FR290425043	ND	0.214	0.560			U
	PFHxDA	67905-19-5	FR290425043	ND	0.298	0.560			U
Sulfonates	PFBS	375-73-5	FR290425043	ND	0.298	0.560			U
	PFPeS	2706-91-4	FR290425043	ND	0.115	0.528			U
	PFHxS	355-46-4	FR290425043	ND	0.432	0.513			U
	PFHpS	375-92-8	FR290425043	ND	0.271	0.534			U
	PFOS	1763-23-1	FR290425043	ND	0.296	0.519			U
	PFNS	68259-12-1	FR290425043	ND	0.174	0.540			U
	PFDS	335-77-3	FR290425043	ND	0.294	0.540			U
	4:2 FTS	757124-72-4	S300425038	ND	0.0726	0.525			U
	6:2 FTS	27619-97-2	FR290425043	ND	0.264	0.534			U
	8:2 FTS	39108-34-4	FR290425043	0.0309	0.126	0.537			L
	10:2 FTS	120226-60-0	FR290425043	ND	0.429	0.560			U
Sulfonamidos	FBSA	30334-69-1	FR290425043	ND	0.266	0.560			U
	N-EtFOSA	4151-50-2	FR290425043	ND	0.347	0.560			U
	N-EtFOSAA	2991-50-6	FR290425043	ND	0.228	0.560			U
	N-EtFOSE	1691-99-2	FR290425043	ND	0.858	2.52			U
	N-MeFOSA	31506-32-8	FR290425043	ND	0.231	0.560			U
	N-MeFOSAA	2355-31-9	FR290425043	ND	0.157	0.560			U
	N-MeFOSE	24448-09-7	FR290425043	ND	0.532	2.52			U
	PFOSA	754-91-6	FR290425043	ND	0.0786	0.560			U
PFECAs	ADONA	919005-14-4	FR290425043	ND	0.152	0.531			U
	EVE Acid	69087-46-3	FR290425043	ND	0.179	1.26			U
	HFPO-DA	13252-13-6	FR290425043	ND	0.0593	0.560			U
	Hydro-EVE Acid	773804-62-9	FR290425043	ND	0.184	0.560			U
	NFDHA	151772-58-6	S300425038	ND	0.118	0.560			U
	PEPA	267239-61-2	FR290425043	ND	0.105	0.560			U
	PFECA-G	801212-59-9	FR290425043	ND	0.0747	0.560			U
	PFMOAA	674-13-5	FR290425043	0.885	0.284	0.560			
	PFMOBA	863090-89-5	FR290425043	ND	0.940	1.26			U
	PFMOPrA	377-73-1	FR290425043	ND	0.200	0.560			U
	PFO2HxA	39492-88-1	FR290425043	ND	0.180	0.560			U
	PFO3OA	39492-89-2	FR290425043	ND	0.257	0.560			U
	PFO4DA	39492-90-5	FR290425043	ND	0.443	2.80			U
	PFO5DA	39492-91-6	S300425038	ND	0.448	2.80			U
	PMPA	13140-29-9	FR290425043	ND	0.132	0.560			U
	R-EVE	2416366-22-6	FR290425043	ND	0.930	1.26			U
PFESAs	11Cl-PF3OUdS	763051-92-9	FR290425043	ND	0.264	0.528			U
	9Cl-PF3ONS	756426-58-1	S300425038	ND	0.359	0.522			U
	Hydrolyzed PSDA	2416366-19-1	FR290425043	ND	0.373	0.560			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	FR290425043	ND	0.299	0.560			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	FR290425043	ND	0.464	0.560			U
	NVHOS	1132933-86-8	FR290425043	ND	0.0863	0.560			U
	PFEESA	113507-82-7	S300425038	ND	0.168	0.560			U
	R-PSDA	2416366-18-0	FR290425043	ND	2.47	2.47			U
	R-PSDCA	2416366-21-5	FR290425043	ND	0.236	0.560			U
ES	MPFBA		FR290425043				20-150%	97.3%	
	M5PFPeA		FR290425043				20-150%	269%	Q
	M3PFBS		FR290425043				20-150%	53.7%	Ac
	M2-4:2 FTS		S300425038				20-150%	158%	Q
	M5PFHxA		FR290425043				20-150%	68.7%	
	M3HFPO-DA		FR290425043				20-150%	71.9%	
	M4PFHpA		FR290425043				20-150%	84.0%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	033125-E02		
Sampling Site			
Enthalpy ID	0325-1224-016-1A	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date	2025-03-31 07:42	Instrument	Sauron
Received Date	2025-03-31	Sample Vol mL	285.62
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-30 03:30	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
Bottle ID	A		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
	M3PFHxS		FR290425043				20-150%	99.7%	
	M2-6:2 FTS		FR290425043				20-150%	137%	
	M8PFOA		FR290425043				20-150%	89.4%	
	M9PFNA		FR290425043				20-150%	78.4%	
	M8PFOS		FR290425043				20-150%	88.5%	
	M2-8:2 FTS		FR290425043				20-150%	98.2%	
	M8FOSA-I		FR290425043				20-150%	54.2%	
	M6PFDA		FR290425043				20-150%	92.3%	
	d3-N-MeFOSAA		FR290425043				20-150%	81.6%	
	d5-N-EtFOSAA		FR290425043				20-150%	75.9%	
	M7PFUdA		FR290425043				20-150%	71.9%	
	MPFDoA		FR290425043				20-150%	49.2%	
	M2PFTeDA		FR290425043				20-150%	15.1%	Q
	d3-N-MeFOSA		FR290425043				10-200%	2.94%	Q
	d5-N-EtFOSA		FR290425043				10-200%	2.57%	Q
	d7-N-MeFOSE		FR290425043				10-200%	24.7%	
	d9-N-EtFOSE		FR290425043				10-200%	19.6%	

QC Data

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Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	MB_19211_PFAS		
Sampling Site			
Enthalpy ID	MB_19211_PFAS	Prep Batch	EU19211
Matrix	aqueous	Analyst	zoearndt
Sampling Date		Instrument	Bumblebee
Received Date		Sample Vol mL	0.1
Prep Date	2025-04-04 08:09	Extract Vol mL	0.2
AnalysisDate	2025-04-09 14:12	Split Factor	N/A
SampleType	Blank	Method Code	EU-047-NPW
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	B090425-04091412	450	700	1530			L
ES	13C3-PFPrA		B090425-04091412				20-150%	105%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	MB_19216_PFAS		
Sampling Site			
Enthalpy ID	MB_19216_PFAS	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date		Instrument	Sauron
Received Date		Sample Vol mL	250
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-30 21:40	Split Factor	N/A
SampleType	Blank	Method Code	EU-047-NPW
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	FR290425025	ND	0.254	0.640			U
	PFPeA	2706-90-3	FR290425025	ND	0.183	0.640			U
	PFHxA	307-24-4	FR290425025	ND	0.214	0.640			U
	PFHpA	375-85-9	S300425020	ND	0.224	0.640			U
	PFOA	335-67-1	FR290425025	ND	0.146	0.640			U
	PFNA	375-95-1	FR290425025	ND	0.145	0.640			U
	PFDA	335-76-2	FR290425025	ND	0.183	0.640			U
	PFUnDA	2058-94-8	FR290425025	ND	0.145	0.640			U
	PFDoDA	307-55-1	FR290425025	ND	0.260	0.640			U
	PFTrDA	72629-94-8	FR290425025	ND	0.212	0.640			U
	PFTeDA	376-06-7	FR290425025	ND	0.244	0.640			U
	PFHxDA	67905-19-5	FR290425025	ND	0.340	0.640			U
Sulfonates	PFBS	375-73-5	FR290425025	ND	0.340	0.640			U
	PFPeS	2706-91-4	FR290425025	ND	0.131	0.603			U
	PFHxS	355-46-4	FR290425025	ND	0.494	0.586			U
	PFHpS	375-92-8	FR290425025	ND	0.310	0.610			U
	PFOS	1763-23-1	S300425020	ND	0.338	0.593			U
	PFNS	68259-12-1	FR290425025	ND	0.199	0.616			U
	PFDS	335-77-3	FR290425025	ND	0.336	0.616			U
	4:2 FTS	757124-72-4	S300425020	ND	0.0830	0.600			U
	6:2 FTS	27619-97-2	FR290425025	ND	0.302	0.610			U
	8:2 FTS	39108-34-4	FR290425025	ND	0.143	0.613			U
	10:2 FTS	120226-60-0	FR290425025	ND	0.490	0.640			U
Sulfonamidos	FBSA	30334-69-1	FR290425025	ND	0.304	0.640			U
	N-EtFOSA	4151-50-2	FR290425025	ND	0.396	0.640			U
	N-EtFOSAA	2991-50-6	FR290425025	ND	0.260	0.640			U
	N-EtFOSE	1691-99-2	FR290425025	ND	0.980	2.88			U
	N-MeFOSA	31506-32-8	FR290425025	ND	0.264	0.640			U
	N-MeFOSAA	2355-31-9	FR290425025	ND	0.180	0.640			U
	N-MeFOSE	24448-09-7	FR290425025	ND	0.608	2.88			U
	PFOSA	754-91-6	FR290425025	ND	0.0898	0.640			U
PFECAs	ADONA	919005-14-4	FR290425025	ND	0.173	0.606			U
	EVE Acid	69087-46-3	FR290425025	ND	0.204	1.44			U
	HFPO-DA	13252-13-6	FR290425025	ND	0.0678	0.640			U
	Hydro-EVE Acid	773804-62-9	FR290425025	ND	0.210	0.640			U
	NFDHA	151772-58-6	S300425020	ND	0.135	0.640			U
	PEPA	267239-61-2	FR290425025	ND	0.120	0.640			U
	PFECA-G	801212-59-9	FR290425025	ND	0.0854	0.640			U
	PFMOAA	674-13-5	FR290425025	ND	0.324	0.640			U
	PFMOBA	863090-89-5	FR290425025	ND	1.07	1.44			U
	PFMOPrA	377-73-1	FR290425025	ND	0.228	0.640			U
	PFO2HxA	39492-88-1	FR290425025	ND	0.206	0.640			U
	PFO3OA	39492-89-2	FR290425025	ND	0.294	0.640			U
	PFO4DA	39492-90-5	FR290425025	ND	0.506	3.20			U
	PFO5DA	39492-91-6	S300425020	ND	0.512	3.20			U
	PMPA	13140-29-9	FR290425025	ND	0.151	0.640			U
	R-EVE	2416366-22-6	FR290425025	ND	1.06	1.44			U
PFESAs	11Cl-PF3OUdS	763051-92-9	S300425020	ND	0.302	0.603			U
	9Cl-PF3ONS	756426-58-1	S300425020	ND	0.410	0.596			U
	Hydrolyzed PSDA	2416366-19-1	FR290425025	ND	0.426	0.640			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	FR290425025	ND	0.342	0.640			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	FR290425025	ND	0.530	0.640			U
	NVHOS	1132933-86-8	FR290425025	ND	0.0986	0.640			U
	PFEESA	113507-82-7	S300425020	ND	0.192	0.640			U
	R-PSDA	2416366-18-0	FR290425025	ND	2.82	2.82			U
	R-PSDCA	2416366-21-5	FR290425025	ND	0.270	0.640			U
ES	MPFBA		FR290425025				20-150%	78.1%	
	M5PFPeA		FR290425025				20-150%	77.8%	
	M3PFBS		FR290425025				20-150%	73.4%	
	M2-4:2 FTS		S300425020				20-150%	82.6%	
	M5PFHxA		FR290425025				20-150%	76.3%	
	M3HFPO-DA		FR290425025				20-150%	67.3%	
	M4PFHpA		S300425020				20-150%	73.0%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	MB_19216_PFAS		
Sampling Site			
Enthalpy ID	MB_19216_PFAS	Prep Batch	EU19216
Matrix	aqueous	Analyst	zoearndt
Sampling Date		Instrument	Sauron
Received Date		Sample Vol mL	250
Prep Date	2025-04-28 09:55	Extract Vol mL	0.4
AnalysisDate	2025-04-30 21:40	Split Factor	N/A
SampleType	Blank	Method Code	EU-047-NPW
Bottle ID	-		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
	M3PFHxS		FR290425025				20-150%	93.9%	
	M2-6:2 FTS		FR290425025				20-150%	117%	
	M8PFOA		FR290425025				20-150%	78.2%	
	M9PFNA		FR290425025				20-150%	64.1%	
	M8PFOS		S300425020				20-150%	75.6%	
	M2-8:2 FTS		FR290425025				20-150%	81.7%	
	M8FOSA-I		FR290425025				20-150%	24.9%	
	M6PFDA		FR290425025				20-150%	75.6%	
	d3-N-MeFOSAA		FR290425025				20-150%	67.8%	
	d5-N-EtFOSAA		FR290425025				20-150%	60.8%	
	M7PFUdA		FR290425025				20-150%	61.9%	
	MPFDoA		FR290425025				20-150%	46.8%	
	M2PFTeDA		FR290425025				20-150%	13.3%	Q
	d3-N-MeFOSA		FR290425025				10-200%	0.230%	Q
	d5-N-EtFOSA		FR290425025				10-200%	0.248%	Q
	d7-N-MeFOSE		FR290425025				10-200%	14.1%	
	d9-N-EtFOSE		FR290425025				10-200%	13.1%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Enthalpy ID	OPR_19211_PFAS	Prep Batch	EU19211	Sample Vol (mL)	0.08
Sample Name	OPR_19211_PFAS	Prep Date	2025-04-04 08:09	Extract Vol (mL)	0.2
Matrix	aqueous	Analysis Date	2025-04-09 14:24	Split Factor	N/A
Sampling Date		Analyst	zoearndt	Method Code	EU-047-NPW
Received Date		Instrument	Bumblebee	Sample Type	Control
		Bottle ID	-		

	Compound	CAS	InjFileName	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
Acids	PFPrA	422-64-0	B090425-04091424	18900	875	1910	40-150%	75.6%	
ES	13C3-PFPrA		B090425-04091424				20-150%	100%	

Enthalpy Analytical

Job No.: 0325-1224-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Enthalpy ID	OPR_19216_PFAS	Prep Batch	EU19216	Sample Vol (mL)	250
Sample Name	OPR_19216_PFAS	Prep Date	2025-04-28 09:55	Extract Vol (mL)	0.4
Matrix	aqueous	Analysis Date	2025-04-29 21:02	Split Factor	N/A
Sampling Date		Analyst	zoearndt	Method Code	EU-047-NPW
Received Date		Instrument	Sauron	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	FR290425026	17.6	0.254	0.640	47.9-144%	88.0%	
	PFPeA	2706-90-3	FR290425026	17.5	0.183	0.640	41.7-159%	87.5%	
	PFHxA	307-24-4	FR290425026	18.6	0.214	0.640	43.2-154%	92.9%	
	PFHpA	375-85-9	S300425021	18.3	0.224	0.640	42.1-155%	91.3%	
	PFOA	335-67-1	FR290425026	18.8	0.146	0.640	51.1-148%	94.2%	
	PFNA	375-95-1	FR290425026	18.6	0.145	0.640	51.6-153%	93.1%	
	PFDA	335-76-2	FR290425026	17.0	0.183	0.640	44.5-156%	84.9%	
	PFUnDA	2058-94-8	FR290425026	17.4	0.145	0.640	40.3-156%	87.0%	
	PFDoDA	307-55-1	FR290425026	17.6	0.260	0.640	40.4-158%	88.1%	
	PFTrDA	72629-94-8	FR290425026	43.7	0.212	0.640	42.2-201%	218%	Q
	PFTeDA	376-06-7	FR290425026	18.1	0.244	0.640	43-162%	90.4%	
Sulfonates	PFBS	375-73-5	FR290425026	16.3	0.340	0.640	42.7-155%	92.1%	
	PFPeS	2706-91-4	FR290425026	16.6	0.131	0.603	40.3-152%	88.0%	
	PFHxS	355-46-4	FR290425026	15.7	0.494	0.586	45-148%	85.8%	
	PFHpS	375-92-8	FR290425026	18.6	0.310	0.610	39.8-166%	97.7%	
	PFOS	1763-23-1	S300425021	16.8	0.338	0.593	59.2-132%	90.6%	
	PFNS	68259-12-1	FR290425026	17.1	0.199	0.616	38.1-153%	88.9%	
	PFDS	335-77-3	FR290425026	15.8	0.336	0.616	28.6-148%	82.0%	
	4:2 FTS	757124-72-4	S300425021	16.2	0.0830	0.600	41.5-157%	86.6%	
	6:2 FTS	27619-97-2	FR290425026	17.5	0.302	0.610	44.5-160%	92.2%	
	8:2 FTS	39108-34-4	FR290425026	13.5	0.143	0.613	39.4-166%	70.5%	
Sulfonamidos	N-EtFOSA	4151-50-2	FR290425026	20.5	0.396	0.640	26.7-172%	103%	
	N-EtFOSAA	2991-50-6	FR290425026	18.7	0.260	0.640	42.8-156%	93.6%	
	N-EtFOSE	1691-99-2	FR290425026	69.0	0.980	2.88	38.9-161%	76.7%	
	N-MeFOSA	31506-32-8	FR290425026	21.0	0.264	0.640	26.4-183%	105%	
	N-MeFOSAA	2355-31-9	FR290425026	18.6	0.180	0.640	42-155%	93.2%	
	N-MeFOSE	24448-09-7	FR290425026	73.3	0.608	2.88	37.6-155%	81.5%	
	PFOSA	754-91-6	FR290425026	16.3	0.0898	0.640	39.1-158%	81.6%	
PFECAs	ADONA	919005-14-4	FR290425026	17.8	0.173	0.606	32.2-151%	88.8%	
	HFPO-DA	13252-13-6	FR290425026	16.5	0.0678	0.640	61.8-131%	82.3%	
PFESAs	11Cl-PF3OUdS	763051-92-9	S300425021	15.7	0.302	0.603	21.8-141%	78.4%	
	9Cl-PF3ONS	756426-58-1	S300425021	16.2	0.410	0.596	37.6-146%	80.8%	
ES	MPFBA		FR290425026				20-150%	80.5%	
	M5PFPeA		FR290425026				20-150%	80.5%	
	M3PFBS		FR290425026				20-150%	75.4%	
	M2-4:2 FTS		S300425021				20-150%	83.8%	
	M5PFHxA		FR290425026				20-150%	74.3%	
	M3HFPO-DA		FR290425026				20-150%	69.9%	
	M4PFHpA		S300425021				20-150%	85.7%	
	M3PFHxS		FR290425026				20-150%	88.8%	
	M2-6:2 FTS		FR290425026				20-150%	115%	
	M8PFOA		FR290425026				20-150%	78.8%	
	M9PFNA		FR290425026				20-150%	71.1%	
	M8PFOS		S300425021				20-150%	80.0%	
	M2-8:2 FTS		FR290425026				20-150%	90.8%	
	M8FOSA-I		FR290425026				20-150%	45.3%	
	M6PFDA		FR290425026				20-150%	82.7%	
	d3-N-MeFOSAA		FR290425026				20-150%	75.2%	
	d5-N-EtFOSAA		FR290425026				20-150%	69.1%	
	M7PFUdA		FR290425026				20-150%	74.1%	
	MPFDoA		FR290425026				20-150%	65.8%	
	M2PFTeDA		FR290425026				20-150%	19.6%	Q
	d3-N-MeFOSA		FR290425026				10-200%	0.390%	Q
	d5-N-EtFOSA		FR290425026				10-200%	0.410%	Q
	d7-N-MeFOSE		FR290425026				10-200%	26.2%	
	d9-N-EtFOSE		FR290425026				10-200%	24.3%	

Sample Custody

0325-1224

Chain of Custody Record

ENTHALPY analytical

Enthalpy Ultratrace Job#: _____ COC Page 1 of 1

Special Handling:

X Standard Turn Around Time

☐ Rush Turn Around Time -- Date Needed_____

• All Fast TATs Subject to Approval by Enthalpy Analytical, Inc.

• All Samples Disposed of After 6 months Unless Otherwise Instructed.

Enthalpy Analytical-Wilmington, NC has added enhancements to standard methods to improve accuracy, precision and permit an assessment of laboratory performance in the context of your specific data needs. For more information email Cindy.James@enthalpy.com.

Client Name: BRUNSWICK COUNTY UTILITIES

Project Manager: GLENN WALKER

Report To: SAME

Project Number:

Site Name: 211 WATER PLANT

Location: LELAND N.C.

PO#:

Telephone#:

Email:

This Chain of Custody is applicable to Non-Air samples. Standard TAT differ per analysis and are provided by request.

Client Special Instructions:

Matrix: GW-Groundwater, WW-Wastewater, NW-Non-Potable Water, DW-Drinking Water, S-Soil, SL-Sludge, BT-Biological Tissue, O-Other

Type: G=Grab C=Composite Q=Quality Control

Sample ID	Date	Time	Sample Volume	Type	Matrix	Sample Containers: # of Bottles	# of Jars	# of Bags	# Other	Analyses: Method 1613	Method 8290	Method 1668A/B/C PCB	PFAS by LC/MS/MS	PAHs by HRGC/HRMS	Sample on Hold	Method 23	ALL PFAS	Notes:
033125-W6A	3/31/25	0755	250mL	G	GW	2											X	Please Add PFPrA and
033125-W5	3/31/25	0815	250mL	G	GW	2											X	PFHpA To All The Testing.
033125-W3	3/31/25	0820	250mL	G	GW	2											X	Mark Hager Knows About
033125-W1	3/31/25	0830	250mL	G	GW	2											X	This If you Have Questions
033125-W2	3/31/25	0838	250mL	G	GW	2											X	
033125-W16	3/31/25	0842	250mL	G	GW	2											X	
033125-W17	3/31/25	0852	250mL	G	GW	2											X	
033125-W18	3/31/25	0858	250mL	G	GW	2											X	
033125-W19	3/31/25	0902	250mL	G	GW	2											X	
033125-W15	3/31/25	0915	250mL	G	GW	2											X	
033125-W8	3/31/25	0922	250mL	G	GW	2											X	
033125-W12A	3/31/25	0940	250mL	G	GW	2											X	
033125-W12	3/31/25	0948	250mL	G	GW	2											X	
033125-W11	3/31/25	1000	250mL	G	GW	2											X	

Relinquished By:	Date:	Received By:	Date:	Time:	Sample Temperature Upon Receipt:
Kenny Reves	3/31/25	Meredith Curtis	3/31/25	12:19	X Iced ☐ Ambient °C 7.8
					☐ Iced ☐ Ambient °C_____
					☐ Iced ☐ Ambient °C_____

0325 -1224

Chain of Custody Record

ENTHALPY analytical

Enthalpy Ultratrace Job#: ___________ **COC Page** 1 **of** 1

Special Handling:
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☐ Rush Turn Around Time -- Date Needed___________
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Client Name: BRUNSWICK COUNTY UTILITIES
Project Manager: GLENN WALKER
Report To: SAME

Project Number:
Site Name: 211 WATER PLANT
Location: LELAND N.C.

PO#:
Telephone#:
Email:

This Chain of Custody is applicable to Non-Air samples. Standard TAT differ per analysis and are provided by request.

Client Special Instructions:

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Type: G=Grab C=Composite Q=Quality Control

Sample ID	Date	Time	Sample Volume	Type	Matrix	# of Bottles	# of Jars	# of Bags	# Other				Method 1613	Method 8290	Method 1668A/B/C PCB	PFAS by LC/MS/MS	PAHs by HRGC/HRMS	Sample on Hold	Method 23	ALL PFAS	Notes:
033125-S02	3/31/25	0740	250mL	G	GW	2														X	Please Add PFPrA and
033125-E02	3/31/25	0742	250mL	G	GW	2														X	PFHpA To All The Testing.
			250mL	G	GW	2														X	Mark Hager Knows About
			250mL	G	GW	2														X	This If you Have Questions
			250mL	G	GW	2														X	
			250mL	G	GW	2														X	
			250mL	G	GW	2														X	
			250mL	G	GW	2														X	
			250mL	G	GW	2														X	
			250mL	G	GW	2														X	
			250mL	G	GW	2														X	
			250mL	G	GW	2														X	
			250mL	G	GW	2														X	
			250mL	G	GW	2														X	

Relinquished By:	Date:	Received By:	Date:	Time:	Sample Temperature Upon Receipt:
Kenny Revels	3/31/25	Meredith Curtis	3/31/25	12:19	☒ Iced ☐ Ambient °C 7.8
					☐ Iced ☐ Ambient °C______
					☐ Iced ☐ Ambient °C______

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JOB ID: 0325-1224 Date / Time: 3131125 12:19 Initials: M.A.C.

OR

Client: Brunswick County Public Utilities

Cooler 1 of 2

Temp °C: 7.8 Thermometer ID: T15

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:	☐	☒
Sample seals:	☐	☒
Good condition:	☒	☐

Comment:

Cooler 2 of 2

Temp °C: 7.7 Thermometer ID: T15

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:	☐	☒
Sample seals:	☐	☒
Good condition:	☒	☐

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:	☐	☐
Sample seals:	☐	☐
Good condition:	☐	☐

Comment: