

Brunswick County Public Utilities - NC

PO Box 249
Bolivia, NC 28422-0249

LELAND N.C.

Client Project# 211 WATER PLANT
Sample Received: 4/11/2025

Analytical Report 0425-822

PFAS by Isotope Dilution (non-potable water)

Report Issue Date: 5/27/2025

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 25 pages. This report shall not be reproduced except in full without approval of the laboratory. This will provide assurance that parts of the report are not taken out of context.

Amendment(s):

Signature:



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Narrative Summary



Enthalpy Analytical Narrative Summary

Company	Brunswick County Public Utilities - NC
Job No.	0425-822-1
Client ID.	211 WATER PLANT Site: LELAND N.C.

1. Custody

Meredith Curtis received the sample as part of a sampling group in two separate coolers at 2.7 °C and 0.1 °C after being relinquished by Brunswick County Public Utilities - NC.

The sample was received in good condition. Prior to, during, and after analysis, the sample was 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
0425-822-001-1	041125-SO2	aqueous	2025-04-11
0425-822-001-1A	041125-SO2	aqueous	2025-04-11

2. Methods and Analytes

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

Table 3 - Methods and Analytes

EU Method	Analytes	Cleanup Method
EU047	Brunswick List	ENVI-Carb

3. Analysis

The sample was analyzed using Sciex Triple Quad 7500 (LC/MS/MS "Bumblebee") and using Waters Acquity UPLC equipped with Xevo TQ MS (LC/MS/MS "Frodo").

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

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.

The Standards that did not were:

- SID BA30 (PFMOPrA) The alternate supplier of the unlabeled standard solution used in the ICV does not contain select analytes of interest.

Enthalpy Analytical Narrative Summary

Company	Brunswick County Public Utilities - NC
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- SID BM68 (8:2 FTS) Analyte met method recovery criteria with rounding in the concal(s). Therefore, data is accepted and reported without adverse impact.

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_19274_PFAS (M2PFTeDA, d3-N-MeFOSA, d5-N-EtFOSA) - See Reporting Notes below.
- OPR_19274_PFAS (d3-N-MeFOSA, d5-N-EtFOSA) - See Reporting Notes below.
- OPR_19274_PFAS (PFTTrDA)

Analyte(s) that exceeded method recovery criteria in OPR_19274_PFAS were not detected >LOQ in the sample(s). Data is reported without adverse impact.

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

6. Reporting Notes

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

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

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

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



General Reporting Notes – Data Qualifiers

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

General Data Qualifiers

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



General Reporting Notes – Data Qualifiers

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

Lab Identifiers/ Data Attributes

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



General Reporting Notes – Data Qualifiers

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

PFAS Compound Acronym List			Methods					
Acronym	CAS #	Compound Name	SOP EU047	EPA 1633 (B-24)	EPA 1633X	EPA 537.1	EPA 533	EPA 8327*
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
PFESA	113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid		X	X		X	X
PFMOBA (PFMBA)	863090-89-5	Perfluoro-4-methoxybutanoic acid		X	X		X	X
NFDHA	151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid		X	X		X	X
PFMOPrA (PFMPA)	377-73-1	Perfluoro-3-methoxypropanoic acid		X	X		X	X
PFPrA	422-64-0	Perfluoropropionic acid, 2,2,3,3,3-Pentafluoropropionic acid			X			X
PFPrS (PFPS)	423-41-6	Perfluoropropanesulfonic acid			X			X



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

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

* Accreditation pending

Results

Enthalpy Analytical

Job No.: 0425-822-1 PFAS by Isotope Dilution (non-potable water)

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

Summary

	Compound	CAS	041125-SO2 ng/L
Acids	PFPrA	422-64-0	185 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
	PFTeDA	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	0.0622 L
	PFHpS	375-92-8	ND U
	PFOS	1763-23-1	0.586
	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	ND U
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
EVE Acid		69087-46-3	ND U
HFPO-DA		13252-13-6	0.0565 L
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	5.39
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	0.271 J
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
Other	TFA	76-05-1	605 L

Enthalpy Analytical

Job No.: 0425-822-1 PFAS by Isotope Dilution (non-potable water)
 Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	041125-SO2	Prep Batch	EU19274
Sampling Site		Analyst	rappelle
Enthalpy ID	0425-822-001-1	Instrument	Frodo
Matrix	aqueous	Sample Vol mL	286.8
Sampling Date	2025-04-11 07:25	Extract Vol mL	0.4
Received Date	2025-04-11	Split Factor	N/A
Prep Date	2025-04-18 08:20	Method Code	EU-047-NPW
AnalysisDate	2025-04-20 09:39		
SampleType	Sample		
Bottle ID	A		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags	
Acids	PFBA	375-22-4	FR190425061	ND	0.221	0.558			U	
	PFPeA	2706-90-3	FR190425061	ND	0.160	0.558			U	
	PFFhxA	307-24-4	FR190425061	ND	0.187	0.558			U	
	PFFHpA	375-85-9	FR190425061	ND	0.195	0.558			U	
	PFOA	335-67-1	FR190425061	ND	0.128	0.558			U	
	PFNA	375-95-1	FR190425061	ND	0.126	0.558			U	
	PFDA	335-76-2	FR190425061	ND	0.160	0.558			U	
	PFUnDA	2058-94-8	FR190425061	ND	0.126	0.558			U	
	PFFDoDA	307-55-1	FR190425061	ND	0.227	0.558			U	
	PFTTrDA	72629-94-8	FR190425061	ND	0.185	0.558			U	
	PFTeDA	376-06-7	FR190425061	ND	0.213	0.558			U	
	PFFhxDA	67905-19-5	FR190425061	ND	0.296	0.558			U	
	Sulfonates	PFBS	375-73-5	FR190425061	ND	0.296	0.558			U
		PFPeS	2706-91-4	FR190425061	ND	0.115	0.526			U
PFFhXS		355-46-4	FR190425061	0.0622	0.431	0.511			L	
PFFHpS		375-92-8	FR190425061	ND	0.270	0.531			U	
PFOS		1763-23-1	FR190425061	0.586	0.295	0.517			U	
PFNS		68259-12-1	FR190425061	ND	0.173	0.537			U	
PFDS		335-77-3	FR190425061	ND	0.293	0.537			U	
4:2 FTS		757124-72-4	FR190425061	ND	0.0724	0.523			U	
6:2 FTS		27619-97-2	FR190425061	ND	0.263	0.531			U	
8:2 FTS		39108-34-4	FR190425061	ND	0.125	0.534			U	
10:2 FTS	120226-60-0	FR190425061	ND	0.427	0.558			U		
Sulfonamidos	FBSA	30334-69-1	FR190425061	ND	0.265	0.558			U	
	N-EiFOSA	4151-50-2	FR190425061	ND	0.345	0.558			U	
	N-EiFOSAA	2991-50-6	FR190425061	ND	0.227	0.558			U	
	N-EiFOSE	1691-99-2	FR190425061	ND	0.854	2.51			U	
	N-MeFOSA	31506-32-8	FR190425061	ND	0.230	0.558			U	
	N-MeFOSAA	2355-31-9	FR190425061	ND	0.157	0.558			U	
	N-MeFOSE	24448-09-7	FR190425061	ND	0.530	2.51			U	
	PFOSA	754-91-6	FR190425061	ND	0.0783	0.558			U	
PFECAs	ADONA	919005-14-4	FR190425061	ND	0.151	0.529			U	
	EVE Acid	69087-46-3	FR190425061	ND	0.178	1.26			U	
	HFPO-DA	13252-13-6	FR190425061	0.0565	0.0591	0.558			L	
	Hydro-EVE Acid	773804-62-9	FR190425061	ND	0.183	0.558			U	
	NFDHA	151772-58-6	FR190425061	ND	0.117	0.558			U	
	PEPA	267239-61-2	FR190425061	ND	0.105	0.558			U	
	PFECA-G	801212-59-9	FR190425061	ND	0.0744	0.558			U	
	PFMOAA	674-13-5	FR190425061	5.39	0.282	0.558			U	
	PFMOBA	863090-89-5	FR190425061	ND	0.936	1.26			U	
	PFMOPrA	377-73-1	FR190425061	ND	0.199	0.558			U	
	PFO2HxA	39492-88-1	FR190425061	ND	0.180	0.558			U	
	PFO3OA	39492-89-2	FR190425061	ND	0.256	0.558			U	
	PFO4DA	39492-90-5	FR190425061	ND	0.441	2.79			U	
	PFO5DA	39492-91-6	FR190425061	ND	0.446	2.79			U	
	PMPA	13140-29-9	FR190425061	0.271	0.131	0.558			J	
	R-EVE	2416366-22-6	FR190425061	ND	0.926	1.26			U	
PFESAs	11Cl-PF3OUdS	763051-92-9	FR190425061	ND	0.263	0.526			U	
	9Cl-PF3ONS	756426-58-1	FR190425061	ND	0.357	0.520			U	
	Hydrolyzed PSDA	2416366-19-1	FR190425061	ND	0.371	0.558			U	
	Nafion Byproduct 1 (PS Acid)	29311-67-9	FR190425061	ND	0.298	0.558			U	
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	FR190425061	ND	0.462	0.558			U	
	NVHOS	1132933-86-8	FR190425061	ND	0.0859	0.558			U	
	PFEESA	113507-82-7	FR190425061	ND	0.168	0.558			U	
	R-PSDA	2416366-18-0	FR190425061	ND	2.46	2.46			U	
ES	R-PSDCA	2416366-21-5	FR190425061	ND	0.235	0.558			U	
	MPFBA		FR190425061				20-150%	82.7%		
	M5PFPeA		FR190425061				20-150%	273%	Q	
	M3PFBS		FR190425061				20-150%	50.2%	Ac	
	M2-4:2 FTS		FR190425061				20-150%	118%		
	M5PFFhxA		FR190425061				20-150%	74.8%		
	M3HFPO-DA		FR190425061				20-150%	72.4%		
M4PFFHpA		FR190425061				20-150%	77.9%			

Enthalpy Analytical

Job No.: 0425-822-1 PFAS by Isotope Dilution (non-potable water)
 Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	041125-SO2		
Sampling Site			
Enthalpy ID	0425-822-001-1	Prep Batch	EU19274
Matrix	aqueous	Analyst	rappelle
Sampling Date	2025-04-11 07:25	Instrument	Frodo
Received Date	2025-04-11	Sample Vol mL	286.8
Prep Date	2025-04-18 08:20	Extract Vol mL	0.4
AnalysisDate	2025-04-20 09:39	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		FR190425061				20-150%	86.6%	
M2-6:2 FTS		FR190425061				20-150%	78.6%	
M8PFOA		FR190425061				20-150%	84.3%	
M9PFNA		FR190425061				20-150%	82.4%	
M8PFOS		FR190425061				20-150%	86.1%	
M2-8:2 FTS		FR190425061				20-150%	83.1%	
M8FOSA-I		FR190425061				20-150%	78.2%	
M6PFDA		FR190425061				20-150%	88.8%	
d3-N-MeFOSAA		FR190425061				20-150%	73.0%	
d5-N-EtFOSAA		FR190425061				20-150%	67.1%	
M7PFUdA		FR190425061				20-150%	75.6%	
MPFDoA		FR190425061				20-150%	63.2%	
M2PFTeDA		FR190425061				20-150%	20.6%	
d3-N-MeFOSA		FR190425061				10-200%	16.2%	
d5-N-EtFOSA		FR190425061				10-200%	10.9%	
d7-N-MeFOSE		FR190425061				10-200%	48.5%	
d9-N-EtFOSE		FR190425061				10-200%	35.8%	

Enthalpy Analytical

Job No.: 0425-822-1 PFAS by Isotope Dilution (non-potable water)
 Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	041125-SO2		
Sampling Site			
Enthalpy ID	0425-822-001-1A	Prep Batch	EU19337
Matrix	aqueous	Analyst	bmay
Sampling Date	2025-04-11 07:25	Instrument	Bumblebee
Received Date	2025-04-11	Sample Vol mL	0.1
Prep Date	2025-04-30 11:11	Extract Vol mL	0.2
AnalysisDate	2025-05-01 11:57	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
Bottle ID	B		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
Acids	PFPrA	422-64-0	B010525-05011157	185	700	1530			L
Other	TFA	76-05-1	B010525-05011157	605	700	752			L
ES	13C2-TFA		B010525-05011157				20-150%	89.7%	
	13C3-PFPrA		B010525-05011157				20-150%	126%	

QC Data

Enthalpy Analytical

Job No.: 0425-822-1 PFAS by Isotope Dilution (non-potable water)
 Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	MB_19274_PFAS	Prep Batch	EU19274
Sampling Site		Analyst	rappelle
Enthalpy ID	MB_19274_PFAS	Instrument	Frodo
Matrix	aqueous	Sample Vol mL	250
Sampling Date		Extract Vol mL	0.4
Received Date		Split Factor	N/A
Prep Date	2025-04-18 08:20	Method Code	EU-047-NPW
AnalysisDate	2025-04-20 05:29		
SampleType	Blank		
Bottle ID	-		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags	
Acids	PFBA	375-22-4	FR190425050	ND	0.254	0.640			U	
	PFPeA	2706-90-3	FR190425050	ND	0.183	0.640			U	
	PFFhxA	307-24-4	FR190425050	ND	0.214	0.640			U	
	PFFHpA	375-85-9	FR190425050	ND	0.224	0.640			U	
	PFOA	335-67-1	FR190425050	ND	0.146	0.640			U	
	PFNA	375-95-1	FR190425050	ND	0.145	0.640			U	
	PFDA	335-76-2	FR190425050	ND	0.183	0.640			U	
	PFUnDA	2058-94-8	FR190425050	ND	0.145	0.640			U	
	PFDODA	307-55-1	FR190425050	ND	0.260	0.640			U	
	PFTrDA	72629-94-8	FR190425050	ND	0.212	0.640			U	
	PFTeDA	376-06-7	FR190425050	ND	0.244	0.640			U	
	PFFhxDA	67905-19-5	FR190425050	ND	0.340	0.640			U	
	Sulfonates	PFBS	375-73-5	FR190425050	ND	0.340	0.640			U
		PFPeS	2706-91-4	FR190425050	ND	0.131	0.603			U
		PFFhXS	355-46-4	FR190425050	ND	0.494	0.586			U
PFFHpS		375-92-8	FR190425050	ND	0.310	0.610			U	
PFOS		1763-23-1	FR190425050	ND	0.338	0.593			U	
PFNS		68259-12-1	FR190425050	ND	0.199	0.616			U	
PFDS		335-77-3	FR190425050	ND	0.336	0.616			U	
4:2 FTS		757124-72-4	FR190425050	ND	0.0830	0.600			U	
6:2 FTS		27619-97-2	FR190425050	ND	0.302	0.610			U	
8:2 FTS		39108-34-4	FR190425050	ND	0.143	0.613			U	
10:2 FTS	120226-60-0	FR190425050	ND	0.490	0.640			U		
Sulfonamidos	FBSA	30334-69-1	FR190425050	ND	0.304	0.640			U	
	N-EiFOSA	4151-50-2	FR190425050	ND	0.396	0.640			U	
	N-EiFOSAA	2991-50-6	FR190425050	ND	0.260	0.640			U	
	N-EiFOSE	1691-99-2	FR190425050	ND	0.980	2.88			U	
	N-MeFOSA	31506-32-8	FR190425050	ND	0.264	0.640			U	
	N-MeFOSAA	2355-31-9	FR190425050	ND	0.180	0.640			U	
	N-MeFOSE	24448-09-7	FR190425050	ND	0.608	2.88			U	
	PFOSA	754-91-6	FR190425050	ND	0.0898	0.640			U	
	PFECAs	ADONA	919005-14-4	FR190425050	ND	0.173	0.606			U
EVE Acid		69087-46-3	FR190425050	ND	0.204	1.44			U	
HFPO-DA		13252-13-6	FR190425050	ND	0.0678	0.640			U	
Hydro-EVE Acid		773804-62-9	FR190425050	ND	0.210	0.640			U	
NFDHA		151772-58-6	FR190425050	ND	0.135	0.640			U	
PEPA		267239-61-2	FR190425050	ND	0.120	0.640			U	
PFECA-G		801212-59-9	FR190425050	ND	0.0854	0.640			U	
PFMOAA		674-13-5	FR190425050	ND	0.324	0.640			U	
PFMOBA		863090-89-5	FR190425050	ND	1.07	1.44			U	
PFMOPrA		377-73-1	FR190425050	ND	0.228	0.640			U	
PFO2HxA		39492-88-1	FR190425050	ND	0.206	0.640			U	
PFO3OA		39492-89-2	FR190425050	ND	0.294	0.640			U	
PFO4DA		39492-90-5	FR190425050	ND	0.506	3.20			U	
PFO5DA		39492-91-6	FR190425050	ND	0.512	3.20			U	
PMPA		13140-29-9	FR190425050	ND	0.151	0.640			U	
R-EVE		2416366-22-6	FR190425050	ND	1.06	1.44			U	
PFESAs		11CI-PF3OUdS	763051-92-9	FR190425050	ND	0.302	0.603			U
		9CI-PF3ONS	756426-58-1	FR190425050	ND	0.410	0.596			U
		Hydrolyzed PSDA	2416366-19-1	FR190425050	ND	0.426	0.640			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	FR190425050	ND	0.342	0.640			U	
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	FR190425050	ND	0.530	0.640			U	
	NVHOS	1132933-86-8	FR190425050	ND	0.0986	0.640			U	
	PFEESA	113507-82-7	FR190425050	ND	0.192	0.640			U	
	R-PSDA	2416366-18-0	FR190425050	ND	2.82	2.82			U	
	R-PSDCA	2416366-21-5	FR190425050	ND	0.270	0.640			U	
ES	MPFBA		FR190425050				20-150%	94.7%		
	M5PFPeA		FR190425050				20-150%	92.4%		
	M3PFBS		FR190425050				20-150%	95.8%		
	M2-4:2 FTS		FR190425050				20-150%	99.5%		
	M5PFFhxA		FR190425050				20-150%	92.4%		
	M3HFPO-DA		FR190425050				20-150%	93.2%		
	M4PFFHpA		FR190425050				20-150%	94.6%		

Enthalpy Analytical

Job No.: 0425-822-1 PFAS by Isotope Dilution (non-potable water)
 Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	MB_19274_PFA5		
Sampling Site			
Enthalpy ID	MB_19274_PFA5	Prep Batch	EU19274
Matrix	aqueous	Analyst	rappelle
Sampling Date		Instrument	Frodo
Received Date		Sample Vol mL	250
Prep Date	2025-04-18 08:20	Extract Vol mL	0.4
AnalysisDate	2025-04-20 05:29	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		FR190425050				20-150%	108%	
M2-6:2 FTS		FR190425050				20-150%	90.8%	
M8PFOA		FR190425050				20-150%	95.6%	
M9PFNA		FR190425050				20-150%	87.1%	
M8PFOS		FR190425050				20-150%	94.9%	
M2-8:2 FTS		FR190425050				20-150%	81.1%	
M8FOSA-I		FR190425050				20-150%	76.5%	
M6PFDA		FR190425050				20-150%	97.3%	
d3-N-MeFOSAA		FR190425050				20-150%	76.1%	
d5-N-EtFOSAA		FR190425050				20-150%	69.1%	
M7PFUdA		FR190425050				20-150%	84.0%	
MPFDoA		FR190425050				20-150%	70.2%	
M2PFTeDA		FR190425050				20-150%	12.6%	Q
d3-N-MeFOSA		FR190425050				10-200%	4.54%	Q
d5-N-EtFOSA		FR190425050				10-200%	3.29%	Q
d7-N-MeFOSE		FR190425050				10-200%	42.7%	
d9-N-EtFOSE		FR190425050				10-200%	31.2%	

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Job No.: 0425-822-1 PFAS by Isotope Dilution (non-potable water)
 Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Details

Sample Name	MB_19337_PFAS		
Sampling Site			
Enthalpy ID	MB_19337_PFAS	Prep Batch	EU19337
Matrix	aqueous	Analyst	bmay
Sampling Date		Instrument	Bumblebee
Received Date		Sample Vol mL	0.1
Prep Date	2025-04-30 11:11	Extract Vol mL	0.2
AnalysisDate	2025-05-01 11:10	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	B010525-05011110	184	700	1530			L
Other	TFA	76-05-1	B010525-05011110	541	700	752			L
ES	13C2-TFA		B010525-05011110				20-150%	88.4%	
	13C3-PFPrA		B010525-05011110				20-150%	125%	

Enthalpy Analytical

Job No.: 0425-822-1 PFAS by Isotope Dilution (non-potable water)

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

Enthalpy ID	OPR_19274_PFAS	Prep Batch	EU19274	Sample Vol (mL)	250
Sample Name	OPR_19274_PFAS	Prep Date	2025-04-18 08:20	Extract Vol (mL)	0.4
Matrix	aqueous	Analysis Date	2025-04-20 05:51	Split Factor	N/A
Sampling Date		Analyst	rappelle	Method Code	EU-047-NPW
Received Date		Instrument	Frodo	Sample Type	Control
		Bottle ID	-		

	Compound	CAS	InjFileName	Formatted Result ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
Acids	PFBA	375-22-4	FR190425051	16.9	0.254	0.640	47.9-144%	84.4%	
	PFPeA	2706-90-3	FR190425051	16.0	0.183	0.640	41.7-159%	79.8%	
	PFHxA	307-24-4	FR190425051	17.2	0.214	0.640	43.2-154%	85.8%	
	PFHpA	375-85-9	FR190425051	16.3	0.224	0.640	42.1-155%	81.5%	
	PFOA	335-67-1	FR190425051	17.0	0.146	0.640	51.1-148%	85.2%	
	PFNA	375-95-1	FR190425051	17.4	0.145	0.640	51.6-153%	86.9%	
	PFDA	335-76-2	FR190425051	15.9	0.183	0.640	44.5-156%	79.7%	
	PFUnDA	2058-94-8	FR190425051	15.7	0.145	0.640	40.3-156%	78.7%	
	PFDoDA	307-55-1	FR190425051	16.5	0.260	0.640	40.4-158%	82.3%	
	PFTrDA	72629-94-8	FR190425051	43.0	0.212	0.640	42.2-201%	215%	Q
	PFTeDA	376-06-7	FR190425051	16.3	0.244	0.640	43-162%	81.6%	
	Sulfonates	PFBS	375-73-5	FR190425051	14.7	0.340	0.640	42.7-155%	83.1%
PFPeS		2706-91-4	FR190425051	15.7	0.131	0.603	40.3-152%	83.5%	
PFHs		355-46-4	FR190425051	15.1	0.494	0.586	45-148%	82.4%	
PFHpS		375-92-8	FR190425051	16.8	0.310	0.610	39.8-166%	88.3%	
PFOS		1763-23-1	FR190425051	15.4	0.338	0.593	59.2-132%	82.9%	
PFNS		68259-12-1	FR190425051	15.3	0.199	0.616	38.1-153%	79.4%	
PFDS		335-77-3	FR190425051	14.0	0.336	0.616	28.6-148%	72.4%	
4:2 FTS		757124-72-4	FR190425051	15.6	0.0830	0.600	41.5-157%	83.0%	
6:2 FTS		27619-97-2	FR190425051	16.3	0.302	0.610	44.5-160%	85.7%	
8:2 FTS		39108-34-4	FR190425051	11.8	0.143	0.613	39.4-166%	61.4%	
Sulfonamidos	N-EtFOSA	4151-50-2	FR190425051	17.6	0.396	0.640	26.7-172%	87.8%	
	N-EtFOSAA	2991-50-6	FR190425051	17.6	0.260	0.640	42.8-156%	88.2%	
	N-EtFOSE	1691-99-2	FR190425051	62.0	0.980	2.88	38.9-161%	68.9%	
	N-MeFOSA	31506-32-8	FR190425051	17.3	0.264	0.640	26.4-183%	86.6%	
	N-MeFOSAA	2355-31-9	FR190425051	17.7	0.180	0.640	42-155%	88.4%	
	N-MeFOSE	24448-09-7	FR190425051	67.2	0.608	2.88	37.6-155%	74.6%	
	PFOSA	754-91-6	FR190425051	14.5	0.0898	0.640	39.1-158%	72.5%	
PFECAs	ADONA	919005-14-4	FR190425051	18.4	0.173	0.606	32.2-151%	91.8%	
	HFPO-DA	13252-13-6	FR190425051	15.5	0.0678	0.640	61.8-131%	77.7%	
ES	MPFBA		FR190425051				20-150%	98.0%	
	M5PFPeA		FR190425051				20-150%	94.1%	
	M3PFBS		FR190425051				20-150%	96.9%	
	M2-4:2 FTS		FR190425051				20-150%	91.2%	
	M5PFHxA		FR190425051				20-150%	92.3%	
	M3HFPO-DA		FR190425051				20-150%	94.4%	
	M4PFHpA		FR190425051				20-150%	92.7%	
	M3PFHxS		FR190425051				20-150%	101%	
	M2-6:2 FTS		FR190425051				20-150%	86.3%	
	M8PFOA		FR190425051				20-150%	90.8%	
	M9PFNA		FR190425051				20-150%	84.4%	
	M8PFOS		FR190425051				20-150%	88.3%	
	M2-8:2 FTS		FR190425051				20-150%	77.4%	
	M8FOSA-I		FR190425051				20-150%	76.0%	
	M6PFDA		FR190425051				20-150%	90.4%	
	d3-N-MeFOSAA		FR190425051				20-150%	73.1%	
	d5-N-EtFOSAA		FR190425051				20-150%	67.7%	
	M7PFUDa		FR190425051				20-150%	80.9%	
	MPFDa		FR190425051				20-150%	75.3%	
	M2PFTeDA		FR190425051				20-150%	22.4%	
d3-N-MeFOSA		FR190425051				10-200%	5.14%	Q	
d5-N-EtFOSA		FR190425051				10-200%	4.26%	Q	
d7-N-MeFOSE		FR190425051				10-200%	54.9%		
d9-N-EtFOSE		FR190425051				10-200%	45.1%		

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Job No.: 0425-822-1 PFAS by Isotope Dilution (non-potable water)
 Brunswick County Public Utilities - NC 211 WATER PLANT LELAND N.C.

Enthalpy ID	OPR_19337_PFAS	Prep Batch	EU19337	Sample Vol (mL)	0.08
Sample Name	OPR_19337_PFAS	Prep Date	2025-04-30 11:11	Extract Vol (mL)	0.2
Matrix	aqueous	Analysis Date	2025-05-01 11:22	Split Factor	N/A
Sampling Date		Analyst	bmay	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	B010525-05011122	20000	875	1910	40-150%	80.0%	
Other	TFA	76-05-1	B010525-05011122	31400	875	940	29.1-155%	125%	
ES	13C2-TFA		B010525-05011122				20-150%	85.0%	
	13C3-PFPrA		B010525-05011122				20-150%	123%	

Sample Custody





0425-822
Chain of Custody Record

Special Handling:
 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.

Enthalpy Ultratrace Job#: _____ COC Page 1 of 1

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				Analyses:							Notes:			
						# 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		
041125-SO2	4/11/2025	0725AM	250mL	G	GW	2												X	Please Add PFPRA and	
			250mL	G	GW	2													X	PFHpA To All The Testing.
			250mL	G	GW	2													X	PLEASE ADD TFA TO THIS
			250mL	G	GW	2													X	SAMPLE!!!
			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: BILLY BENTON Date: 4/11/2025 Received By: Meredith Curtis Date: 4/11/25 Time: 14:35 Sample Temperature Upon Receipt: Iced Ambient °C 2.7
 Iced Ambient °C _____
 Iced Ambient °C _____

JOB ID: 0425-822

Date / Time: 4/11/25 14:35

Initials: M.A.C.

OR

Client: Brunswick County Utilities

Cooler 1 of 2

Temp °C: 2.7

Thermometer ID: TIS

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:

Empty comment box

Temp °C: 0.1

Thermometer ID: TIS

Cooler 2 of 2

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:

Empty comment box

Temp °C:

Thermometer ID:

Cooler of

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:

Empty comment box