Brunswick County Public Utilities - NC

PO Box 249
Bolivia, NC 28422-0249

LELAND N.C.

Client Project# 211 WATER PLANT
Samples Received: 8/1/2024

Analytical Report
0824-703

PFAS by Isotope Dilution (non-potable water)

Report Issue Date: 9/9/2024

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 70 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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Summary of Results

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Summary

	Compound	CAS	080124 W6A ng/L	080124 W5 ng/L	080124 W3 ng/L	080124 W1 ng/L	080124 W2 ng/L
Acids	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	ND U
	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	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	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	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	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	0.991	0.186 L	ND U	1.15	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	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	ND U	ND U	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	0.0118 L	0.00432 L	ND U	ND U	ND U

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Summary

	Compound	CAS	080124 W16 ng/L	080124 W17 ng/L	080124 W18 ng/L	080124 W19 ng/L	080124 W15 ng/L
Acids	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	ND U
	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	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	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	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	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	0.275 L	ND U	ND U	ND U	0.493 L
	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	ND U	ND U	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	0.0353 L	ND U	ND U	ND U	0.0129 L

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Summary

	Compound	CAS	080124 W8 ng/L	080124 W12A ng/L	080124 W12 ng/L	080124 W11 ng/L
Acids	PFBA	375-22-4	ND U	ND U	ND U	ND U
	PFPeA	2706-90-3	ND U	ND U	ND U	ND U
	PFHxA	307-24-4	ND U	ND U	ND U	ND U
	PFHpA	375-85-9	ND U	ND U	ND U	ND U
	PFOA	335-67-1	ND U	ND U	ND U	ND U
	PFNA	375-95-1	ND U	ND U	ND U	ND U
	PFDA	335-76-2	ND U	ND U	ND U	ND U
	PFUnDA	2058-94-8	ND U	ND U	ND U	ND U
	PFDoDA	307-55-1	ND U	ND U	ND U	ND U
	PFTrDA	72629-94-8	ND U	ND U	ND U	ND U
	PFTeDA	376-06-7	ND U	ND U	ND U	ND U
	PFHxDA	67905-19-5	ND U	ND U	ND U	ND U
Sulfonates	PFBS	375-73-5	ND U	ND U	ND U	ND U
	PFPeS	2706-91-4	ND U	ND U	ND U	ND U
	PFHxS	355-46-4	ND U	ND U	0.463 L	ND U
	PFHpS	375-92-8	ND U	ND U	ND U	ND U
	PFOS	1763-23-1	ND U	0.117 L	1.80	ND U
	PFNS	68259-12-1	ND U	ND U	ND U	ND U
	PFDS	335-77-3	ND U	ND U	ND U	ND U
	4:2 FTS	757124-72-4	ND U	ND U	ND U	ND U
	6:2 FTS	27619-97-2	ND U	ND U	ND U	ND U
	8:2 FTS	39108-34-4	ND U	ND U	ND U	ND U
	10:2 FTS	120226-60-0	ND U	ND U	ND U	ND U
Sulfonamidos	FBSA	30334-69-1	ND U	ND U	ND U	ND U
	N-EtFOSA	4151-50-2	ND U	ND U	ND U	ND U
	N-EtFOSAA	2991-50-6	ND U	ND U	ND U	ND U
	N-EtFOSE	1691-99-2	ND U	ND U	ND U	ND U
	N-MeFOSA	31506-32-8	ND U	ND U	ND U	ND U
	N-MeFOSAA	2355-31-9	ND U	ND U	ND U	ND U
	N-MeFOSE	24448-09-7	ND U	ND U	ND U	ND U
	PFOSA	754-91-6	ND U	ND U	ND U	ND U
PFECAs	ADONA	919005-14-4	ND U	ND U	ND U	ND U
	EVE Acid	69087-46-3	ND U	ND U	ND U	ND U
	HFPO-DA	13252-13-6	ND U	ND U	0.460 L	0.00642 L
	Hydro-EVE Acid	773804-62-9	ND U	ND U	ND U	ND U
	NFDHA	151772-58-6	ND U	ND U	ND U	ND U
	PEPA	267239-61-2	ND U	ND U	ND U	ND U
	PFECA-G	801212-59-9	ND U	ND U	ND U	ND U
	PFMOAA	674-13-5	0.313 L	2.12	19.0	6.63
	PFMOBA	863090-89-5	ND U	ND U	ND U	ND U
	PFMOPrA	377-73-1	ND U	ND U	ND U	ND U
	PFO2HxA	39492-88-1	ND U	ND U	1.58	ND U
	PFO3OA	39492-89-2	ND U	ND U	ND U	ND U
	PFO4DA	39492-90-5	ND U	ND U	ND U	ND U
	PFO5DA	39492-91-6	ND U	ND U	ND U	ND U
	PMPA	13140-29-9	ND U	ND U	ND U	ND U
	R-EVE	2416366-22-6	ND U	ND U	ND U	ND U
PFESAs	11Cl-PF3OUdS	763051-92-9	ND U	ND U	ND U	ND U
	9Cl-PF3ONS	756426-58-1	ND U	ND U	ND U	ND U
	Hydrolyzed PSDA	2416366-19-1	ND U	ND U	ND U	ND U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	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
	NVHOS	1132933-86-8	ND U	ND U	ND U	ND U
	PFEESA	113507-82-7	ND U	ND U	ND U	ND U
	R-PSDA	2416366-18-0	ND U	ND U	ND U	ND U
	R-PSDCA	2416366-21-5	ND U	0.0132 L	0.0358 L	ND U

Enthalpy Analytical

Job No.: 0824-703-3 PFAS by Isotope Dilution (non-potable water)

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

Summary

	Compound	CAS	080124 W6A ng/L	080124 W5 ng/L	080124 W3 ng/L	080124 W1 ng/L	080124 W2 ng/L
Acids	PFPrA	422-64-0	ND U	ND U	ND U	ND U	ND U

Enthalpy Analytical

Job No.: 0824-703-3 PFAS by Isotope Dilution (non-potable water)

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

Summary

	Compound	CAS	080124 W16 ng/L	080124 W17 ng/L	080124 W18 ng/L	080124 W19 ng/L	080124 W15 ng/L
Acids	PFPrA	422-64-0	ND U	ND U	ND U	ND U	ND U

Enthalpy Analytical

Job No.: 0824-703-3 PFAS by Isotope Dilution (non-potable water)

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

Summary

	Compound	CAS	080124 W8 ng/L	080124 W12A ng/L	080124 W12 ng/L	080124 W11 ng/L
Acids	PFPrA	422-64-0	ND U	ND U	ND U	ND U

Detailed Results

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W6A		
Sampling Site			
Enthalpy ID	0824-703-001-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 07:47	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	288.41
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 03:54	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	P080824046	ND	0.555	0.555			U
	PFPeA	2706-90-3	P080824046	ND	0.555	0.555			U
	PFHxA	307-24-4	P080824046	ND	0.555	0.555			U
	PFHpA	375-85-9	P080824046	ND	0.555	0.555			U
	PFOA	335-67-1	P080824046	ND	0.555	0.555			U
	PFNA	375-95-1	P080824046	ND	0.555	0.555			U
	PFDA	335-76-2	P080824046	ND	0.555	0.555			U
	PFUnDA	2058-94-8	P080824046	ND	0.555	0.555			U
	PFDoDA	307-55-1	P080824046	ND	0.555	0.555			U
	PFTrDA	72629-94-8	P080824046	ND	0.555	0.555			U
	PFTeDA	376-06-7	P080824046	ND	0.555	0.555			U
	PFHxDA	67905-19-5	P080824046	ND	0.555	0.555			U
Sulfonates	PFBS	375-73-5	P080824046	ND	0.555	0.555			U
	PFPeS	2706-91-4	P080824046	ND	0.523	0.523			U
	PFHxS	355-46-4	P080824046	ND	0.508	0.508			U
	PFHpS	375-92-8	P080824046	ND	0.528	0.528			U
	PFOS	1763-23-1	P080824046	ND	0.514	0.514			U
	PFNS	68259-12-1	P080824046	ND	0.534	0.534			U
	PFDS	335-77-3	P080824046	ND	0.534	0.534			U
	4:2 FTS	757124-72-4	P080824046	ND	0.520	0.520			U
	6:2 FTS	27619-97-2	P080824046	ND	0.528	0.528			U
	8:2 FTS	39108-34-4	P080824046	ND	0.531	0.531			U
	10:2 FTS	120226-60-0	P080824046	ND	0.555	0.555			U
Sulfonamidos	FBSA	30334-69-1	P080824046	ND	0.555	0.555			U
	N-EtFOSA	4151-50-2	P080824046	ND	0.555	0.555			U
	N-EtFOSAA	2991-50-6	P080824046	ND	0.555	0.555			U
	N-EtFOSE	1691-99-2	P080824046	ND	2.50	2.50			U
	N-MeFOSA	31506-32-8	P080824046	ND	0.555	0.555			U
	N-MeFOSAA	2355-31-9	P080824046	ND	0.555	0.555			U
	N-MeFOSE	24448-09-7	P080824046	ND	2.50	2.50			U
	PFOSA	754-91-6	P080824046	ND	0.555	0.555			U
PFECAs	ADONA	919005-14-4	P080824046	ND	0.526	0.526			U
	EVE Acid	69087-46-3	P080824046	ND	1.25	1.25			U
	HFPO-DA	13252-13-6	P080824046	ND	0.555	0.555			U
	Hydro-EVE Acid	773804-62-9	P080824046	ND	0.555	0.555			U
	NFDHA	151772-58-6	P080824046	ND	0.555	0.555			U
	PEPA	267239-61-2	P080824046	ND	0.555	0.555			U
	PFECA-G	801212-59-9	P080824046	ND	0.555	0.555			U
	PFMOAA	674-13-5	P080824046	0.991	0.555	0.555			
	PFMOBA	863090-89-5	P080824046	ND	1.25	1.25			U
	PFMOPrA	377-73-1	P080824046	ND	0.555	0.555			U
	PFO2HxA	39492-88-1	P080824046	ND	0.555	0.555			U
	PFO3OA	39492-89-2	P080824046	ND	0.555	0.555			U
	PFO4DA	39492-90-5	P080824046	ND	2.77	2.77			U
	PFO5DA	39492-91-6	P080824046	ND	2.77	2.77			U
	PMPA	13140-29-9	P080824046	ND	0.555	0.555			U
	R-EVE	2416366-22-6	P080824046	ND	1.25	1.25			U
PFESAs	11Cl-PF3OUdS	763051-92-9	P080824046	ND	0.523	0.523			U
	9Cl-PF3ONS	756426-58-1	P080824046	ND	0.517	0.517			U
	Hydrolyzed PSDA	2416366-19-1	P080824046	ND	0.555	0.555			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	P080824046	ND	0.555	0.555			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	P080824046	ND	0.555	0.555			U
	NVHOS	1132933-86-8	P080824046	ND	0.555	0.555			U
	PFEESA	113507-82-7	P080824046	ND	0.555	0.555			U
	R-PSDA	2416366-18-0	P080824046	ND	2.44	2.44			U
	R-PSDCA	2416366-21-5	P080824046	0.0118	0.555	0.555			L
ES	MPFBA		P080824046				20-150%	90.9%	
	M5PFPeA		P080824046				20-150%	182%	Q
	M3PFBS		P080824046				20-150%	288%	Q
	M2-4:2 FTS		P080824046				20-150%	98.3%	
	M5PFHxA		P080824046				20-150%	77.3%	
	M3HFPO-DA		P080824046				20-150%	89.4%	
	M4PFHpA		P080824046				20-150%	91.4%	

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W6A		
Sampling Site			
Enthalpy ID	0824-703-001-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 07:47	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	288.41
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 03:54	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		P080824046				20-150%	99.5%	
	M2-6:2 FTS		P080824046				20-150%	99.0%	
	M8PFOA		P080824046				20-150%	92.7%	
	M9PFNA		P080824046				20-150%	91.0%	
	M8PFOS		P080824046				20-150%	89.6%	
	M2-8:2 FTS		P080824046				20-150%	82.3%	
	M8FOSA-I		P080824046				20-150%	41.8%	
	M6PFDA		P080824046				20-150%	87.4%	
	d3-N-MeFOSAA		P080824046				20-150%	80.1%	
	d5-N-EtFOSAA		P080824046				20-150%	78.9%	
	M7PFUdA		P080824046				20-150%	79.7%	
	MPFDoA		P080824046				20-150%	56.7%	
	M2PFTeDA		P080824046				20-150%	12.1%	Q
	d3-N-MeFOSA		P080824046				10-200%	1.61%	Q
	d5-N-EtFOSA		P080824046				10-200%	1.14%	Q
	d7-N-MeFOSE		P080824046				10-200%	14.4%	
	d9-N-EtFOSE		P080824046				10-200%	11.6%	

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W5		
Sampling Site			
Enthalpy ID	0824-703-002-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 08:08	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	291.14
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 04:16	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	P080824047	ND	0.550	0.550			U
	PFPeA	2706-90-3	P080824047	ND	0.550	0.550			U
	PFHxA	307-24-4	P080824047	ND	0.550	0.550			U
	PFHpA	375-85-9	P080824047	ND	0.550	0.550			U
	PFOA	335-67-1	P080824047	ND	0.550	0.550			U
	PFNA	375-95-1	P080824047	ND	0.550	0.550			U
	PFDA	335-76-2	P080824047	ND	0.550	0.550			U
	PFUnDA	2058-94-8	P080824047	ND	0.550	0.550			U
	PFDoDA	307-55-1	P080824047	ND	0.550	0.550			U
	PFTrDA	72629-94-8	P080824047	ND	0.550	0.550			U
	PFTeDA	376-06-7	P080824047	ND	0.550	0.550			U
	PFHxDA	67905-19-5	P080824047	ND	0.550	0.550			U
Sulfonates	PFBS	375-73-5	P080824047	ND	0.550	0.550			U
	PFPeS	2706-91-4	P080824047	ND	0.518	0.518			U
	PFHxS	355-46-4	P080824047	ND	0.503	0.503			U
	PFHpS	375-92-8	P080824047	ND	0.524	0.524			U
	PFOS	1763-23-1	P080824047	ND	0.509	0.509			U
	PFNS	68259-12-1	P080824047	ND	0.529	0.529			U
	PFDS	335-77-3	P080824047	ND	0.529	0.529			U
	4:2 FTS	757124-72-4	P080824047	ND	0.515	0.515			U
	6:2 FTS	27619-97-2	P080824047	ND	0.524	0.524			U
	8:2 FTS	39108-34-4	P080824047	ND	0.526	0.526			U
	10:2 FTS	120226-60-0	P080824047	ND	0.550	0.550			U
Sulfonamidos	FBSA	30334-69-1	P080824047	ND	0.550	0.550			U
	N-EtFOSA	4151-50-2	P080824047	ND	0.550	0.550			U
	N-EtFOSAA	2991-50-6	P080824047	ND	0.550	0.550			U
	N-EtFOSE	1691-99-2	P080824047	ND	2.47	2.47			U
	N-MeFOSA	31506-32-8	P080824047	ND	0.550	0.550			U
	N-MeFOSAA	2355-31-9	P080824047	ND	0.550	0.550			U
	N-MeFOSE	24448-09-7	P080824047	ND	2.47	2.47			U
	PFOSA	754-91-6	P080824047	ND	0.550	0.550			U
PFECAs	ADONA	919005-14-4	P080824047	ND	0.521	0.521			U
	EVE Acid	69087-46-3	P080824047	ND	1.24	1.24			U
	HFPO-DA	13252-13-6	P080824047	ND	0.550	0.550			U
	Hydro-EVE Acid	773804-62-9	P080824047	ND	0.550	0.550			U
	NFDHA	151772-58-6	P080824047	ND	0.550	0.550			U
	PEPA	267239-61-2	P080824047	ND	0.550	0.550			U
	PFECA-G	801212-59-9	P080824047	ND	0.550	0.550			U
	PFMOAA	674-13-5	P080824047	0.186	0.550	0.550			L
	PFMOBA	863090-89-5	P080824047	ND	1.24	1.24			U
	PFMOPrA	377-73-1	P080824047	ND	0.550	0.550			U
	PFO2HxA	39492-88-1	P080824047	ND	0.550	0.550			U
	PFO3OA	39492-89-2	P080824047	ND	0.550	0.550			U
	PFO4DA	39492-90-5	P080824047	ND	2.75	2.75			U
	PFO5DA	39492-91-6	P080824047	ND	2.75	2.75			U
	PMPA	13140-29-9	P080824047	ND	0.550	0.550			U
	R-EVE	2416366-22-6	P080824047	ND	1.24	1.24			U
PFESAs	11Cl-PF3OUdS	763051-92-9	P080824047	ND	0.518	0.518			U
	9Cl-PF3ONS	756426-58-1	P080824047	ND	0.512	0.512			U
	Hydrolyzed PSDA	2416366-19-1	P080824047	ND	0.550	0.550			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	P080824047	ND	0.550	0.550			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	P080824047	ND	0.550	0.550			U
	NVHOS	1132933-86-8	P080824047	ND	0.550	0.550			U
	PFEESA	113507-82-7	P080824047	ND	0.550	0.550			U
	R-PSDA	2416366-18-0	P080824047	ND	2.42	2.42			U
	R-PSDCA	2416366-21-5	P080824047	0.00432	0.550	0.550			L
ES	MPFBA		P080824047				20-150%	90.9%	
	M5PFPeA		P080824047				20-150%	178%	Q
	M3PFBS		P080824047				20-150%	269%	Q
	M2-4:2 FTS		P080824047				20-150%	106%	
	M5PFHxA		P080824047				20-150%	79.9%	
	M3HFPO-DA		P080824047				20-150%	86.8%	
	M4PFHpA		P080824047				20-150%	88.5%	

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W5		
Sampling Site			
Enthalpy ID	0824-703-002-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 08:08	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	291.14
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 04:16	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		P080824047				20-150%	97.3%	
	M2-6:2 FTS		P080824047				20-150%	97.9%	
	M8PFOA		P080824047				20-150%	85.3%	
	M9PFNA		P080824047				20-150%	81.0%	
	M8PFOS		P080824047				20-150%	85.5%	
	M2-8:2 FTS		P080824047				20-150%	76.7%	
	M8FOSA-I		P080824047				20-150%	24.5%	
	M6PFDA		P080824047				20-150%	83.7%	
	d3-N-MeFOSAA		P080824047				20-150%	78.5%	
	d5-N-EtFOSAA		P080824047				20-150%	74.6%	
	M7PFUdA		P080824047				20-150%	73.6%	
	MPFDoA		P080824047				20-150%	53.1%	
	M2PFTeDA		P080824047				20-150%	15.1%	Q
	d3-N-MeFOSA		P080824047				10-200%	1.75%	Q
	d5-N-EtFOSA		P080824047				10-200%	1.22%	Q
	d7-N-MeFOSE		P080824047				10-200%	7.41%	Q
	d9-N-EtFOSE		P080824047				10-200%	5.53%	Q

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W3		
Sampling Site			
Enthalpy ID	0824-703-003-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 08:18	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	287.77
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 04:39	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
Acids	PFBA	375-22-4	P080824048	ND	0.556	0.556			U
	PFPeA	2706-90-3	P080824048	ND	0.556	0.556			U
	PFHxA	307-24-4	P080824048	ND	0.556	0.556			U
	PFHpA	375-85-9	P080824048	ND	0.556	0.556			U
	PFOA	335-67-1	P080824048	ND	0.556	0.556			U
	PFNA	375-95-1	P080824048	ND	0.556	0.556			U
	PFDA	335-76-2	P080824048	ND	0.556	0.556			U
	PFUnDA	2058-94-8	P080824048	ND	0.556	0.556			U
	PFDoDA	307-55-1	P080824048	ND	0.556	0.556			U
	PFTrDA	72629-94-8	P080824048	ND	0.556	0.556			U
	PFTeDA	376-06-7	P080824048	ND	0.556	0.556			U
	PFHxDA	67905-19-5	P080824048	ND	0.556	0.556			U
Sulfonates	PFBS	375-73-5	P080824048	ND	0.556	0.556			U
	PFPeS	2706-91-4	P080824048	ND	0.524	0.524			U
	PFHxS	355-46-4	P080824048	ND	0.509	0.509			U
	PFHpS	375-92-8	P080824048	ND	0.530	0.530			U
	PFOS	1763-23-1	P080824048	ND	0.515	0.515			U
	PFNS	68259-12-1	P080824048	ND	0.536	0.536			U
	PFDS	335-77-3	P080824048	ND	0.536	0.536			U
	4:2 FTS	757124-72-4	P080824048	ND	0.521	0.521			U
	6:2 FTS	27619-97-2	P080824048	ND	0.530	0.530			U
	8:2 FTS	39108-34-4	P080824048	ND	0.533	0.533			U
	10:2 FTS	120226-60-0	P080824048	ND	0.556	0.556			U
Sulfonamidos	FBSA	30334-69-1	P080824048	ND	0.556	0.556			U
	N-EtFOSA	4151-50-2	P080824048	ND	0.556	0.556			U
	N-EtFOSAA	2991-50-6	P080824048	ND	0.556	0.556			U
	N-EtFOSE	1691-99-2	P080824048	ND	2.50	2.50			U
	N-MeFOSA	31506-32-8	P080824048	ND	0.556	0.556			U
	N-MeFOSAA	2355-31-9	P080824048	ND	0.556	0.556			U
	N-MeFOSE	24448-09-7	P080824048	ND	2.50	2.50			U
	PFOSA	754-91-6	P080824048	ND	0.556	0.556			U
PFECAs	ADONA	919005-14-4	P080824048	ND	0.527	0.527			U
	EVE Acid	69087-46-3	P080824048	ND	1.25	1.25			U
	HFPO-DA	13252-13-6	P080824048	ND	0.556	0.556			U
	Hydro-EVE Acid	773804-62-9	P080824048	ND	0.556	0.556			U
	NFDHA	151772-58-6	P080824048	ND	0.556	0.556			U
	PEPA	267239-61-2	P080824048	ND	0.556	0.556			U
	PFECA-G	801212-59-9	P080824048	ND	0.556	0.556			U
	PFMOAA	674-13-5	P080824048	ND	0.556	0.556			U
	PFMOBA	863090-89-5	P080824048	ND	1.25	1.25			U
	PFMOPrA	377-73-1	P080824048	ND	0.556	0.556			U
	PFO2HxA	39492-88-1	P080824048	ND	0.556	0.556			U
	PFO3OA	39492-89-2	P080824048	ND	0.556	0.556			U
	PFO4DA	39492-90-5	P080824048	ND	2.78	2.78			U
	PFO5DA	39492-91-6	P080824048	ND	2.78	2.78			U
	PMPA	13140-29-9	P080824048	ND	0.556	0.556			U
	R-EVE	2416366-22-6	P080824048	ND	1.25	1.25			U
PFESAs	11Cl-PF3OUdS	763051-92-9	P080824048	ND	0.524	0.524			U
	9Cl-PF3ONS	756426-58-1	P080824048	ND	0.518	0.518			U
	Hydrolyzed PSDA	2416366-19-1	P080824048	ND	0.556	0.556			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	P080824048	ND	0.556	0.556			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	P080824048	ND	0.556	0.556			U
	NVHOS	1132933-86-8	P080824048	ND	0.556	0.556			U
	PFEESA	113507-82-7	P080824048	ND	0.556	0.556			U
	R-PSDA	2416366-18-0	P080824048	ND	2.45	2.45			U
	R-PSDCA	2416366-21-5	P080824048	ND	0.556	0.556			U
ES	MPFBA		P080824048				20-150%	90.5%	
	M5PFPeA		P080824048				20-150%	187%	Q
	M3PFBS		P080824048				20-150%	306%	Q
	M2-4:2 FTS		P080824048				20-150%	103%	
	M5PFHxA		P080824048				20-150%	81.0%	
	M3HFPO-DA		P080824048				20-150%	89.8%	
	M4PFHpA		P080824048				20-150%	92.2%	

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W3		
Sampling Site			
Enthalpy ID	0824-703-003-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 08:18	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	287.77
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 04:39	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		P080824048				20-150%	98.2%	
	M2-6:2 FTS		P080824048				20-150%	103%	
	M8PFOA		P080824048				20-150%	95.7%	
	M9PFNA		P080824048				20-150%	90.9%	
	M8PFOS		P080824048				20-150%	89.0%	
	M2-8:2 FTS		P080824048				20-150%	82.5%	
	M8FOSA-I		P080824048				20-150%	45.6%	
	M6PFDA		P080824048				20-150%	91.6%	
	d3-N-MeFOSAA		P080824048				20-150%	83.2%	
	d5-N-EtFOSAA		P080824048				20-150%	78.7%	
	M7PFUdA		P080824048				20-150%	81.6%	
	MPFDoA		P080824048				20-150%	53.3%	
	M2PFTeDA		P080824048				20-150%	11.1%	Q
	d3-N-MeFOSA		P080824048				10-200%	1.70%	Q
	d5-N-EtFOSA		P080824048				10-200%	0.819%	Q
	d7-N-MeFOSE		P080824048				10-200%	17.3%	
	d9-N-EtFOSE		P080824048				10-200%	14.0%	

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W1		
Sampling Site			
Enthalpy ID	0824-703-004-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 08:27	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	288.19
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 05:02	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	P080824049	ND	0.555	0.555			U
	PFPeA	2706-90-3	P080824049	ND	0.555	0.555			U
	PFHxA	307-24-4	P080824049	ND	0.555	0.555			U
	PFHpA	375-85-9	P080824049	ND	0.555	0.555			U
	PFOA	335-67-1	P080824049	ND	0.555	0.555			U
	PFNA	375-95-1	P080824049	ND	0.555	0.555			U
	PFDA	335-76-2	P080824049	ND	0.555	0.555			U
	PFUnDA	2058-94-8	P080824049	ND	0.555	0.555			U
	PFDoDA	307-55-1	P080824049	ND	0.555	0.555			U
	PFTrDA	72629-94-8	P080824049	ND	0.555	0.555			U
	PFTeDA	376-06-7	P080824049	ND	0.555	0.555			U
	PFHxDA	67905-19-5	P080824049	ND	0.555	0.555			U
Sulfonates	PFBS	375-73-5	P080824049	ND	0.555	0.555			U
	PFPeS	2706-91-4	P080824049	ND	0.523	0.523			U
	PFHxS	355-46-4	P080824049	ND	0.508	0.508			U
	PFHpS	375-92-8	P080824049	ND	0.529	0.529			U
	PFOS	1763-23-1	P080824049	ND	0.514	0.514			U
	PFNS	68259-12-1	P080824049	ND	0.535	0.535			U
	PFDS	335-77-3	P080824049	ND	0.535	0.535			U
	4:2 FTS	757124-72-4	P080824049	ND	0.520	0.520			U
	6:2 FTS	27619-97-2	P080824049	ND	0.529	0.529			U
	8:2 FTS	39108-34-4	P080824049	ND	0.532	0.532			U
	10:2 FTS	120226-60-0	P080824049	ND	0.555	0.555			U
Sulfonamidos	FBSA	30334-69-1	P080824049	ND	0.555	0.555			U
	N-EtFOSA	4151-50-2	P080824049	ND	0.555	0.555			U
	N-EtFOSAA	2991-50-6	P080824049	ND	0.555	0.555			U
	N-EtFOSE	1691-99-2	P080824049	ND	2.50	2.50			U
	N-MeFOSA	31506-32-8	P080824049	ND	0.555	0.555			U
	N-MeFOSAA	2355-31-9	P080824049	ND	0.555	0.555			U
	N-MeFOSE	24448-09-7	P080824049	ND	2.50	2.50			U
	PFOSA	754-91-6	P080824049	ND	0.555	0.555			U
PFECAs	ADONA	919005-14-4	P080824049	ND	0.526	0.526			U
	EVE Acid	69087-46-3	P080824049	ND	1.25	1.25			U
	HFPO-DA	13252-13-6	P080824049	ND	0.555	0.555			U
	Hydro-EVE Acid	773804-62-9	P080824049	ND	0.555	0.555			U
	NFDHA	151772-58-6	P080824049	ND	0.555	0.555			U
	PEPA	267239-61-2	P080824049	ND	0.555	0.555			U
	PFECA-G	801212-59-9	P080824049	ND	0.555	0.555			U
	PFMOAA	674-13-5	P080824049	1.15	0.555	0.555			
	PFMOBA	863090-89-5	P080824049	ND	1.25	1.25			U
	PFMOPrA	377-73-1	P080824049	ND	0.555	0.555			U
	PFO2HxA	39492-88-1	P080824049	ND	0.555	0.555			U
	PFO3OA	39492-89-2	P080824049	ND	0.555	0.555			U
	PFO4DA	39492-90-5	P080824049	ND	2.78	2.78			U
	PFO5DA	39492-91-6	P080824049	ND	2.78	2.78			U
	PMPA	13140-29-9	P080824049	ND	0.555	0.555			U
	R-EVE	2416366-22-6	P080824049	ND	1.25	1.25			U
PFESAs	11Cl-PF3OUdS	763051-92-9	P080824049	ND	0.523	0.523			U
	9Cl-PF3ONS	756426-58-1	P080824049	ND	0.517	0.517			U
	Hydrolyzed PSDA	2416366-19-1	P080824049	ND	0.555	0.555			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	P080824049	ND	0.555	0.555			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	P080824049	ND	0.555	0.555			U
	NVHOS	1132933-86-8	P080824049	ND	0.555	0.555			U
	PFEESA	113507-82-7	P080824049	ND	0.555	0.555			U
	R-PSDA	2416366-18-0	P080824049	ND	2.45	2.45			U
	R-PSDCA	2416366-21-5	P080824049	ND	0.555	0.555			U
ES	MPFBA		P080824049				20-150%	89.3%	
	M5PFPeA		P080824049				20-150%	236%	Q
	M3PFBS		P080824049				20-150%	69.0%	Ac
	M2-4:2 FTS		P080824049				20-150%	83.3%	
	M5PFHxA		P080824049				20-150%	73.0%	
	M3HFPO-DA		P080824049				20-150%	91.4%	
	M4PFHpA		P080824049				20-150%	92.0%	

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W1		
Sampling Site			
Enthalpy ID	0824-703-004-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 08:27	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	288.19
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 05:02	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		P080824049				20-150%	100%	
	M2-6:2 FTS		P080824049				20-150%	95.2%	
	M8PFOA		P080824049				20-150%	93.2%	
	M9PFNA		P080824049				20-150%	92.4%	
	M8PFOS		P080824049				20-150%	89.9%	
	M2-8:2 FTS		P080824049				20-150%	82.5%	
	M8FOSA-I		P080824049				20-150%	37.0%	
	M6PFDA		P080824049				20-150%	88.6%	
	d3-N-MeFOSAA		P080824049				20-150%	81.7%	
	d5-N-EtFOSAA		P080824049				20-150%	78.8%	
	M7PFUdA		P080824049				20-150%	82.7%	
	MPFDoA		P080824049				20-150%	63.8%	
	M2PFTeDA		P080824049				20-150%	25.6%	
	d3-N-MeFOSA		P080824049				10-200%	1.89%	Q
	d5-N-EtFOSA		P080824049				10-200%	1.97%	Q
	d7-N-MeFOSE		P080824049				10-200%	18.8%	
	d9-N-EtFOSE		P080824049				10-200%	15.8%	

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W2		
Sampling Site			
Enthalpy ID	0824-703-005-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 08:36	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	281.4
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 05:24	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	P080824050	ND	0.569	0.569			U
	PFPeA	2706-90-3	P080824050	ND	0.569	0.569			U
	PFHxA	307-24-4	P080824050	ND	0.569	0.569			U
	PFHpA	375-85-9	P080824050	ND	0.569	0.569			U
	PFOA	335-67-1	P080824050	ND	0.569	0.569			U
	PFNA	375-95-1	P080824050	ND	0.569	0.569			U
	PFDA	335-76-2	P080824050	ND	0.569	0.569			U
	PFUnDA	2058-94-8	P080824050	ND	0.569	0.569			U
	PFDoDA	307-55-1	P080824050	ND	0.569	0.569			U
	PFTrDA	72629-94-8	P080824050	ND	0.569	0.569			U
	PFTeDA	376-06-7	P080824050	ND	0.569	0.569			U
	PFHxDA	67905-19-5	P080824050	ND	0.569	0.569			U
Sulfonates	PFBS	375-73-5	P080824050	ND	0.569	0.569			U
	PFPeS	2706-91-4	P080824050	ND	0.536	0.536			U
	PFHxS	355-46-4	P080824050	ND	0.521	0.521			U
	PFHpS	375-92-8	P080824050	ND	0.542	0.542			U
	PFOS	1763-23-1	P080824050	ND	0.527	0.527			U
	PFNS	68259-12-1	P080824050	ND	0.548	0.548			U
	PFDS	335-77-3	P080824050	ND	0.548	0.548			U
	4:2 FTS	757124-72-4	P080824050	ND	0.533	0.533			U
	6:2 FTS	27619-97-2	P080824050	ND	0.542	0.542			U
	8:2 FTS	39108-34-4	P080824050	ND	0.545	0.545			U
	10:2 FTS	120226-60-0	P080824050	ND	0.569	0.569			U
Sulfonamidos	FBSA	30334-69-1	P080824050	ND	0.569	0.569			U
	N-EtFOSA	4151-50-2	P080824050	ND	0.569	0.569			U
	N-EtFOSAA	2991-50-6	P080824050	ND	0.569	0.569			U
	N-EtFOSE	1691-99-2	P080824050	ND	2.56	2.56			U
	N-MeFOSA	31506-32-8	P080824050	ND	0.569	0.569			U
	N-MeFOSAA	2355-31-9	P080824050	ND	0.569	0.569			U
	N-MeFOSE	24448-09-7	P080824050	ND	2.56	2.56			U
	PFOSA	754-91-6	P080824050	ND	0.569	0.569			U
PFECAs	ADONA	919005-14-4	P080824050	ND	0.539	0.539			U
	EVE Acid	69087-46-3	P080824050	ND	1.28	1.28			U
	HFPO-DA	13252-13-6	P080824050	ND	0.569	0.569			U
	Hydro-EVE Acid	773804-62-9	P080824050	ND	0.569	0.569			U
	NFDHA	151772-58-6	P080824050	ND	0.569	0.569			U
	PEPA	267239-61-2	P080824050	ND	0.569	0.569			U
	PFECA-G	801212-59-9	P080824050	ND	0.569	0.569			U
	PFMOAA	674-13-5	P080824050	ND	0.569	0.569			U
	PFMOBA	863090-89-5	P080824050	ND	1.28	1.28			U
	PFMOPrA	377-73-1	P080824050	ND	0.569	0.569			U
	PFO2HxA	39492-88-1	P080824050	ND	0.569	0.569			U
	PFO3OA	39492-89-2	P080824050	ND	0.569	0.569			U
	PFO4DA	39492-90-5	P080824050	ND	2.84	2.84			U
	PFO5DA	39492-91-6	P080824050	ND	2.84	2.84			U
	PMPA	13140-29-9	P080824050	ND	0.569	0.569			U
	R-EVE	2416366-22-6	P080824050	ND	1.28	1.28			U
PFESAs	11Cl-PF3OUdS	763051-92-9	P080824050	ND	0.536	0.536			U
	9Cl-PF3ONS	756426-58-1	P080824050	ND	0.530	0.530			U
	Hydrolyzed PSDA	2416366-19-1	P080824050	ND	0.569	0.569			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	P080824050	ND	0.569	0.569			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	P080824050	ND	0.569	0.569			U
	NVHOS	1132933-86-8	P080824050	ND	0.569	0.569			U
	PFEESA	113507-82-7	P080824050	ND	0.569	0.569			U
	R-PSDA	2416366-18-0	P080824050	ND	2.51	2.51			U
	R-PSDCA	2416366-21-5	P080824050	ND	0.569	0.569			U
ES	MPFBA		P080824050				20-150%	95.2%	
	M5PFPeA		P080824050				20-150%	197%	Q
	M3PFBS		P080824050				20-150%	298%	Q
	M2-4:2 FTS		P080824050				20-150%	115%	
	M5PFHxA		P080824050				20-150%	84.8%	
	M3HFPO-DA		P080824050				20-150%	93.7%	
	M4PFHpA		P080824050				20-150%	93.7%	

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W2		
Sampling Site			
Enthalpy ID	0824-703-005-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 08:36	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	281.4
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 05:24	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		P080824050				20-150%	108%	
	M2-6:2 FTS		P080824050				20-150%	104%	
	M8PFOA		P080824050				20-150%	90.0%	
	M9PFNA		P080824050				20-150%	83.1%	
	M8PFOS		P080824050				20-150%	90.7%	
	M2-8:2 FTS		P080824050				20-150%	78.4%	
	M8FOSA-I		P080824050				20-150%	40.8%	
	M6PFDA		P080824050				20-150%	88.5%	
	d3-N-MeFOSAA		P080824050				20-150%	77.1%	
	d5-N-EtFOSAA		P080824050				20-150%	69.0%	
	M7PFUdA		P080824050				20-150%	73.0%	
	MPFDoA		P080824050				20-150%	45.9%	
	M2PFTeDA		P080824050				20-150%	8.99%	Q
	d3-N-MeFOSA		P080824050				10-200%	1.79%	Q
	d5-N-EtFOSA		P080824050				10-200%	1.62%	Q
	d7-N-MeFOSE		P080824050				10-200%	12.7%	
	d9-N-EtFOSE		P080824050				10-200%	9.00%	Q

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W16		
Sampling Site			
Enthalpy ID	0824-703-006-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 08:45	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	290.13
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 05:47	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	PFBA	375-22-4	P080824051	ND	0.551	0.551			U
	PFPeA	2706-90-3	P080824051	ND	0.551	0.551			U
	PFHxA	307-24-4	P080824051	ND	0.551	0.551			U
	PFHpA	375-85-9	P080824051	ND	0.551	0.551			U
	PFOA	335-67-1	P080824051	ND	0.551	0.551			U
	PFNA	375-95-1	P080824051	ND	0.551	0.551			U
	PFDA	335-76-2	P080824051	ND	0.551	0.551			U
	PFUnDA	2058-94-8	P080824051	ND	0.551	0.551			U
	PFDoDA	307-55-1	P080824051	ND	0.551	0.551			U
	PFTrDA	72629-94-8	P080824051	ND	0.551	0.551			U
	PFTeDA	376-06-7	P080824051	ND	0.551	0.551			U
	PFHxDA	67905-19-5	P080824051	ND	0.551	0.551			U
Sulfonates	PFBS	375-73-5	P080824051	ND	0.551	0.551			U
	PFPeS	2706-91-4	P080824051	ND	0.520	0.520			U
	PFHxS	355-46-4	P080824051	ND	0.505	0.505			U
	PFHpS	375-92-8	P080824051	ND	0.525	0.525			U
	PFOS	1763-23-1	P080824051	ND	0.511	0.511			U
	PFNS	68259-12-1	P080824051	ND	0.531	0.531			U
	PFDS	335-77-3	P080824051	ND	0.531	0.531			U
	4:2 FTS	757124-72-4	P080824051	ND	0.517	0.517			U
	6:2 FTS	27619-97-2	P080824051	ND	0.525	0.525			U
	8:2 FTS	39108-34-4	P080824051	ND	0.528	0.528			U
	10:2 FTS	120226-60-0	P080824051	ND	0.551	0.551			U
Sulfonamidos	FBSA	30334-69-1	P080824051	ND	0.551	0.551			U
	N-EtFOSA	4151-50-2	P080824051	ND	0.551	0.551			U
	N-EtFOSAA	2991-50-6	P080824051	ND	0.551	0.551			U
	N-EtFOSE	1691-99-2	P080824051	ND	2.48	2.48			U
	N-MeFOSA	31506-32-8	P080824051	ND	0.551	0.551			U
	N-MeFOSAA	2355-31-9	P080824051	ND	0.551	0.551			U
	N-MeFOSE	24448-09-7	P080824051	ND	2.48	2.48			U
	PFOSA	754-91-6	P080824051	ND	0.551	0.551			U
PFECAs	ADONA	919005-14-4	P080824051	ND	0.522	0.522			U
	EVE Acid	69087-46-3	P080824051	ND	1.24	1.24			U
	HFPO-DA	13252-13-6	P080824051	ND	0.551	0.551			U
	Hydro-EVE Acid	773804-62-9	P080824051	ND	0.551	0.551			U
	NFDHA	151772-58-6	P080824051	ND	0.551	0.551			U
	PEPA	267239-61-2	P080824051	ND	0.551	0.551			U
	PFECA-G	801212-59-9	P080824051	ND	0.551	0.551			U
	PFMOAA	674-13-5	P080824051	0.275	0.551	0.551			L
	PFMOBA	863090-89-5	P080824051	ND	1.24	1.24			U
	PFMOPrA	377-73-1	P080824051	ND	0.551	0.551			U
	PFO2HxA	39492-88-1	P080824051	ND	0.551	0.551			U
	PFO3OA	39492-89-2	P080824051	ND	0.551	0.551			U
	PFO4DA	39492-90-5	P080824051	ND	2.76	2.76			U
	PFO5DA	39492-91-6	P080824051	ND	2.76	2.76			U
	PMPA	13140-29-9	P080824051	ND	0.551	0.551			U
	R-EVE	2416366-22-6	P080824051	ND	1.24	1.24			U
PFESAs	11Cl-PF3OUdS	763051-92-9	P080824051	ND	0.520	0.520			U
	9Cl-PF3ONS	756426-58-1	P080824051	ND	0.514	0.514			U
	Hydrolyzed PSDA	2416366-19-1	P080824051	ND	0.551	0.551			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	P080824051	ND	0.551	0.551			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	P080824051	ND	0.551	0.551			U
	NVHOS	1132933-86-8	P080824051	ND	0.551	0.551			U
	PFEESA	113507-82-7	P080824051	ND	0.551	0.551			U
	R-PSDA	2416366-18-0	P080824051	ND	2.43	2.43			U
	R-PSDCA	2416366-21-5	P080824051	0.0353	0.551	0.551			L
ES	MPFBA		P080824051				20-150%	87.3%	
	M5PFPeA		P080824051				20-150%	223%	Q
	M3PFBS		P080824051				20-150%	67.5%	Ac
	M2-4:2 FTS		P080824051				20-150%	89.0%	
	M5PFHxA		P080824051				20-150%	73.4%	
	M3HFPO-DA		P080824051				20-150%	90.2%	
	M4PFHpA		P080824051				20-150%	88.7%	

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W16		
Sampling Site			
Enthalpy ID	0824-703-006-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 08:45	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	290.13
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 05:47	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
	M3PFHxS		P080824051				20-150%	95.6%	
	M2-6:2 FTS		P080824051				20-150%	95.4%	
	M8PFOA		P080824051				20-150%	89.7%	
	M9PFNA		P080824051				20-150%	80.3%	
	M8PFOS		P080824051				20-150%	77.2%	
	M2-8:2 FTS		P080824051				20-150%	62.6%	
	M8FOSA-I		P080824051				20-150%	24.7%	
	M6PFDA		P080824051				20-150%	72.9%	
	d3-N-MeFOSAA		P080824051				20-150%	54.3%	
	d5-N-EtFOSAA		P080824051				20-150%	42.2%	
	M7PFUdA		P080824051				20-150%	52.4%	
	MPFDoA		P080824051				20-150%	29.9%	
	M2PFTeDA		P080824051				20-150%	5.09%	Q
	d3-N-MeFOSA		P080824051				10-200%	1.16%	Q
	d5-N-EtFOSA		P080824051				10-200%	0.679%	Q
	d7-N-MeFOSE		P080824051				10-200%	4.60%	Q
	d9-N-EtFOSE		P080824051				10-200%	2.98%	Q

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W17		
Sampling Site			
Enthalpy ID	0824-703-007-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 08:54	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	289.39
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 06:10	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	PFBA	375-22-4	P080824052	ND	0.553	0.553			U
	PFPeA	2706-90-3	P080824052	ND	0.553	0.553			U
	PFHxA	307-24-4	P080824052	ND	0.553	0.553			U
	PFHpA	375-85-9	P080824052	ND	0.553	0.553			U
	PFOA	335-67-1	P080824052	ND	0.553	0.553			U
	PFNA	375-95-1	P080824052	ND	0.553	0.553			U
	PFDA	335-76-2	P080824052	ND	0.553	0.553			U
	PFUnDA	2058-94-8	P080824052	ND	0.553	0.553			U
	PFDoDA	307-55-1	P080824052	ND	0.553	0.553			U
	PFTrDA	72629-94-8	P080824052	ND	0.553	0.553			U
	PFTeDA	376-06-7	P080824052	ND	0.553	0.553			U
	PFHxDA	67905-19-5	P080824052	ND	0.553	0.553			U
Sulfonates	PFBS	375-73-5	P080824052	ND	0.553	0.553			U
	PFPeS	2706-91-4	P080824052	ND	0.521	0.521			U
	PFHxS	355-46-4	P080824052	ND	0.506	0.506			U
	PFHpS	375-92-8	P080824052	ND	0.527	0.527			U
	PFOS	1763-23-1	P080824052	ND	0.512	0.512			U
	PFNS	68259-12-1	P080824052	ND	0.533	0.533			U
	PFDS	335-77-3	P080824052	ND	0.533	0.533			U
	4:2 FTS	757124-72-4	P080824052	ND	0.518	0.518			U
	6:2 FTS	27619-97-2	P080824052	ND	0.527	0.527			U
	8:2 FTS	39108-34-4	P080824052	ND	0.530	0.530			U
	10:2 FTS	120226-60-0	P080824052	ND	0.553	0.553			U
Sulfonamidos	FBSA	30334-69-1	P080824052	ND	0.553	0.553			U
	N-EtFOSA	4151-50-2	P080824052	ND	0.553	0.553			U
	N-EtFOSAA	2991-50-6	P080824052	ND	0.553	0.553			U
	N-EtFOSE	1691-99-2	P080824052	ND	2.49	2.49			U
	N-MeFOSA	31506-32-8	P080824052	ND	0.553	0.553			U
	N-MeFOSAA	2355-31-9	P080824052	ND	0.553	0.553			U
	N-MeFOSE	24448-09-7	P080824052	ND	2.49	2.49			U
	PFOSA	754-91-6	P080824052	ND	0.553	0.553			U
PFECAs	ADONA	919005-14-4	P080824052	ND	0.524	0.524			U
	EVE Acid	69087-46-3	P080824052	ND	1.24	1.24			U
	HFPO-DA	13252-13-6	P080824052	ND	0.553	0.553			U
	Hydro-EVE Acid	773804-62-9	P080824052	ND	0.553	0.553			U
	NFDHA	151772-58-6	P080824052	ND	0.553	0.553			U
	PEPA	267239-61-2	P080824052	ND	0.553	0.553			U
	PFECA-G	801212-59-9	P080824052	ND	0.553	0.553			U
	PFMOAA	674-13-5	P080824052	ND	0.553	0.553			U
	PFMOBA	863090-89-5	P080824052	ND	1.24	1.24			U
	PFMOPrA	377-73-1	P080824052	ND	0.553	0.553			U
	PFO2HxA	39492-88-1	P080824052	ND	0.553	0.553			U
	PFO3OA	39492-89-2	P080824052	ND	0.553	0.553			U
	PFO4DA	39492-90-5	P080824052	ND	2.76	2.76			U
	PFO5DA	39492-91-6	P080824052	ND	2.76	2.76			U
	PMPA	13140-29-9	P080824052	ND	0.553	0.553			U
	R-EVE	2416366-22-6	P080824052	ND	1.24	1.24			U
PFESAs	11Cl-PF3OUdS	763051-92-9	P080824052	ND	0.521	0.521			U
	9Cl-PF3ONS	756426-58-1	P080824052	ND	0.515	0.515			U
	Hydrolyzed PSDA	2416366-19-1	P080824052	ND	0.553	0.553			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	P080824052	ND	0.553	0.553			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	P080824052	ND	0.553	0.553			U
	NVHOS	1132933-86-8	P080824052	ND	0.553	0.553			U
	PFEESA	113507-82-7	P080824052	ND	0.553	0.553			U
	R-PSDA	2416366-18-0	P080824052	ND	2.44	2.44			U
	R-PSDCA	2416366-21-5	P080824052	ND	0.553	0.553			U
ES	MPFBA		P080824052				20-150%	93.4%	
	M5PFPeA		P080824052				20-150%	206%	Q
	M3PFBS		P080824052				20-150%	330%	Q
	M2-4:2 FTS		P080824052				20-150%	94.6%	
	M5PFHxA		P080824052				20-150%	77.7%	
	M3HFPO-DA		P080824052				20-150%	91.6%	
	M4PFHpA		P080824052				20-150%	93.1%	

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W17		
Sampling Site			
Enthalpy ID	0824-703-007-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 08:54	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	289.39
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 06:10	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
	M3PFHxS		P080824052				20-150%	90.5%	
	M2-6:2 FTS		P080824052				20-150%	94.7%	
	M8PFOA		P080824052				20-150%	93.1%	
	M9PFNA		P080824052				20-150%	92.0%	
	M8PFOS		P080824052				20-150%	88.1%	
	M2-8:2 FTS		P080824052				20-150%	78.9%	
	M8FOSA-I		P080824052				20-150%	37.9%	
	M6PFDA		P080824052				20-150%	88.5%	
	d3-N-MeFOSAA		P080824052				20-150%	78.5%	
	d5-N-EtFOSAA		P080824052				20-150%	74.1%	
	M7PFUdA		P080824052				20-150%	87.1%	
	MPFDoA		P080824052				20-150%	71.1%	
	M2PFTeDA		P080824052				20-150%	40.8%	
	d3-N-MeFOSA		P080824052				10-200%	3.36%	Q
	d5-N-EtFOSA		P080824052				10-200%	3.88%	Q
	d7-N-MeFOSE		P080824052				10-200%	17.6%	
	d9-N-EtFOSE		P080824052				10-200%	15.9%	

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W18		
Sampling Site			
Enthalpy ID	0824-703-008-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 09:00	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	273.49
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 06:32	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	P080824053	ND	0.585	0.585			U
	PFPeA	2706-90-3	P080824053	ND	0.585	0.585			U
	PFHxA	307-24-4	P080824053	ND	0.585	0.585			U
	PFHpA	375-85-9	P080824053	ND	0.585	0.585			U
	PFOA	335-67-1	P080824053	ND	0.585	0.585			U
	PFNA	375-95-1	P080824053	ND	0.585	0.585			U
	PFDA	335-76-2	P080824053	ND	0.585	0.585			U
	PFUnDA	2058-94-8	P080824053	ND	0.585	0.585			U
	PFDoDA	307-55-1	P080824053	ND	0.585	0.585			U
	PFTrDA	72629-94-8	P080824053	ND	0.585	0.585			U
	PFTeDA	376-06-7	P080824053	ND	0.585	0.585			U
	PFHxDA	67905-19-5	P080824053	ND	0.585	0.585			U
Sulfonates	PFBS	375-73-5	P080824053	ND	0.585	0.585			U
	PFPeS	2706-91-4	P080824053	ND	0.551	0.551			U
	PFHxS	355-46-4	P080824053	ND	0.536	0.536			U
	PFHpS	375-92-8	P080824053	ND	0.557	0.557			U
	PFOS	1763-23-1	P080824053	ND	0.542	0.542			U
	PFNS	68259-12-1	P080824053	ND	0.563	0.563			U
	PFDS	335-77-3	P080824053	ND	0.563	0.563			U
	4:2 FTS	757124-72-4	P080824053	ND	0.548	0.548			U
	6:2 FTS	27619-97-2	P080824053	ND	0.557	0.557			U
	8:2 FTS	39108-34-4	P080824053	ND	0.560	0.560			U
	10:2 FTS	120226-60-0	P080824053	ND	0.585	0.585			U
Sulfonamidos	FBSA	30334-69-1	P080824053	ND	0.585	0.585			U
	N-EtFOSA	4151-50-2	P080824053	ND	0.585	0.585			U
	N-EtFOSAA	2991-50-6	P080824053	ND	0.585	0.585			U
	N-EtFOSE	1691-99-2	P080824053	ND	2.63	2.63			U
	N-MeFOSA	31506-32-8	P080824053	ND	0.585	0.585			U
	N-MeFOSAA	2355-31-9	P080824053	ND	0.585	0.585			U
	N-MeFOSE	24448-09-7	P080824053	ND	2.63	2.63			U
	PFOSA	754-91-6	P080824053	ND	0.585	0.585			U
PFECAs	ADONA	919005-14-4	P080824053	ND	0.554	0.554			U
	EVE Acid	69087-46-3	P080824053	ND	1.32	1.32			U
	HFPO-DA	13252-13-6	P080824053	ND	0.585	0.585			U
	Hydro-EVE Acid	773804-62-9	P080824053	ND	0.585	0.585			U
	NFDHA	151772-58-6	P080824053	ND	0.585	0.585			U
	PEPA	267239-61-2	P080824053	ND	0.585	0.585			U
	PFECA-G	801212-59-9	P080824053	ND	0.585	0.585			U
	PFMOAA	674-13-5	P080824053	ND	0.585	0.585			U
	PFMOBA	863090-89-5	P080824053	ND	1.32	1.32			U
	PFMOPrA	377-73-1	P080824053	ND	0.585	0.585			U
	PFO2HxA	39492-88-1	P080824053	ND	0.585	0.585			U
	PFO3OA	39492-89-2	P080824053	ND	0.585	0.585			U
	PFO4DA	39492-90-5	P080824053	ND	2.93	2.93			U
	PFO5DA	39492-91-6	P080824053	ND	2.93	2.93			U
	PMPA	13140-29-9	P080824053	ND	0.585	0.585			U
	R-EVE	2416366-22-6	P080824053	ND	1.32	1.32			U
PFESAs	11Cl-PF3OUdS	763051-92-9	P080824053	ND	0.551	0.551			U
	9Cl-PF3ONS	756426-58-1	P080824053	ND	0.545	0.545			U
	Hydrolyzed PSDA	2416366-19-1	P080824053	ND	0.585	0.585			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	P080824053	ND	0.585	0.585			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	P080824053	ND	0.585	0.585			U
	NVHOS	1132933-86-8	P080824053	ND	0.585	0.585			U
	PFEESA	113507-82-7	P080824053	ND	0.585	0.585			U
	R-PSDA	2416366-18-0	P080824053	ND	2.58	2.58			U
	R-PSDCA	2416366-21-5	P080824053	ND	0.585	0.585			U
ES	MPFBA		P080824053				20-150%	89.3%	
	M5PFPeA		P080824053				20-150%	213%	Q
	M3PFBS		P080824053				20-150%	373%	Q
	M2-4:2 FTS		P080824053				20-150%	84.9%	
	M5PFHxA		P080824053				20-150%	68.9%	
	M3HFPO-DA		P080824053				20-150%	86.6%	
	M4PFHpA		P080824053				20-150%	84.1%	

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W18		
Sampling Site			
Enthalpy ID	0824-703-008-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 09:00	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	273.49
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 06:32	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		P080824053				20-150%	83.5%	
	M2-6:2 FTS		P080824053				20-150%	90.3%	
	M8PFOA		P080824053				20-150%	87.5%	
	M9PFNA		P080824053				20-150%	86.4%	
	M8PFOS		P080824053				20-150%	86.1%	
	M2-8:2 FTS		P080824053				20-150%	77.6%	
	M8FOSA-I		P080824053				20-150%	21.0%	
	M6PFDA		P080824053				20-150%	83.4%	
	d3-N-MeFOSAA		P080824053				20-150%	79.0%	
	d5-N-EtFOSAA		P080824053				20-150%	72.9%	
	M7PFUdA		P080824053				20-150%	80.3%	
	MPFDoA		P080824053				20-150%	59.2%	
	M2PFTeDA		P080824053				20-150%	24.8%	
	d3-N-MeFOSA		P080824053				10-200%	0.879%	Q
	d5-N-EtFOSA		P080824053				10-200%	0.999%	Q
	d7-N-MeFOSE		P080824053				10-200%	6.73%	Q
	d9-N-EtFOSE		P080824053				10-200%	5.63%	Q

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W19		
Sampling Site			
Enthalpy ID	0824-703-009-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 09:08	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	270.43
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 06:55	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	PFBA	375-22-4	P080824054	ND	0.592	0.592			U
	PFPeA	2706-90-3	P080824054	ND	0.592	0.592			U
	PFHxA	307-24-4	P080824054	ND	0.592	0.592			U
	PFHpA	375-85-9	P080824054	ND	0.592	0.592			U
	PFOA	335-67-1	P080824054	ND	0.592	0.592			U
	PFNA	375-95-1	P080824054	ND	0.592	0.592			U
	PFDA	335-76-2	P080824054	ND	0.592	0.592			U
	PFUnDA	2058-94-8	P080824054	ND	0.592	0.592			U
	PFDoDA	307-55-1	P080824054	ND	0.592	0.592			U
	PFTrDA	72629-94-8	P080824054	ND	0.592	0.592			U
	PFTeDA	376-06-7	P080824054	ND	0.592	0.592			U
	PFHxDA	67905-19-5	P080824054	ND	0.592	0.592			U
Sulfonates	PFBS	375-73-5	P080824054	ND	0.592	0.592			U
	PFPeS	2706-91-4	P080824054	ND	0.557	0.557			U
	PFHxS	355-46-4	P080824054	ND	0.542	0.542			U
	PFHpS	375-92-8	P080824054	ND	0.564	0.564			U
	PFOS	1763-23-1	P080824054	ND	0.548	0.548			U
	PFNS	68259-12-1	P080824054	ND	0.570	0.570			U
	PFDS	335-77-3	P080824054	ND	0.570	0.570			U
	4:2 FTS	757124-72-4	P080824054	ND	0.554	0.554			U
	6:2 FTS	27619-97-2	P080824054	ND	0.564	0.564			U
	8:2 FTS	39108-34-4	P080824054	ND	0.567	0.567			U
	10:2 FTS	120226-60-0	P080824054	ND	0.592	0.592			U
Sulfonamidos	FBSA	30334-69-1	P080824054	ND	0.592	0.592			U
	N-EtFOSA	4151-50-2	P080824054	ND	0.592	0.592			U
	N-EtFOSAA	2991-50-6	P080824054	ND	0.592	0.592			U
	N-EtFOSE	1691-99-2	P080824054	ND	2.66	2.66			U
	N-MeFOSA	31506-32-8	P080824054	ND	0.592	0.592			U
	N-MeFOSAA	2355-31-9	P080824054	ND	0.592	0.592			U
	N-MeFOSE	24448-09-7	P080824054	ND	2.66	2.66			U
	PFOSA	754-91-6	P080824054	ND	0.592	0.592			U
PFECAs	ADONA	919005-14-4	P080824054	ND	0.561	0.561			U
	EVE Acid	69087-46-3	P080824054	ND	1.33	1.33			U
	HFPO-DA	13252-13-6	P080824054	ND	0.592	0.592			U
	Hydro-EVE Acid	773804-62-9	P080824054	ND	0.592	0.592			U
	NFDHA	151772-58-6	P080824054	ND	0.592	0.592			U
	PEPA	267239-61-2	P080824054	ND	0.592	0.592			U
	PFECA-G	801212-59-9	P080824054	ND	0.592	0.592			U
	PFMOAA	674-13-5	P080824054	ND	0.592	0.592			U
	PFMOBA	863090-89-5	P080824054	ND	1.33	1.33			U
	PFMOPrA	377-73-1	P080824054	ND	0.592	0.592			U
	PFO2HxA	39492-88-1	P080824054	ND	0.592	0.592			U
	PFO3OA	39492-89-2	P080824054	ND	0.592	0.592			U
	PFO4DA	39492-90-5	P080824054	ND	2.96	2.96			U
	PFO5DA	39492-91-6	P080824054	ND	2.96	2.96			U
	PMPA	13140-29-9	P080824054	ND	0.592	0.592			U
	R-EVE	2416366-22-6	P080824054	ND	1.33	1.33			U
PFESAs	11Cl-PF3OUdS	763051-92-9	P080824054	ND	0.557	0.557			U
	9Cl-PF3ONS	756426-58-1	P080824054	ND	0.551	0.551			U
	Hydrolyzed PSDA	2416366-19-1	P080824054	ND	0.592	0.592			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	P080824054	ND	0.592	0.592			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	P080824054	ND	0.592	0.592			U
	NVHOS	1132933-86-8	P080824054	ND	0.592	0.592			U
	PFEESA	113507-82-7	P080824054	ND	0.592	0.592			U
	R-PSDA	2416366-18-0	P080824054	ND	2.61	2.61			U
	R-PSDCA	2416366-21-5	P080824054	ND	0.592	0.592			U
ES	MPFBA		P080824054				20-150%	93.6%	
	M5PFPeA		P080824054				20-150%	179%	Q
	M3PFBS		P080824054				20-150%	255%	Q
	M2-4:2 FTS		P080824054				20-150%	107%	
	M5PFHxA		P080824054				20-150%	81.1%	
	M3HFPO-DA		P080824054				20-150%	91.7%	
	M4PFHpA		P080824054				20-150%	90.7%	

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W19		
Sampling Site			
Enthalpy ID	0824-703-009-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 09:08	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	270.43
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 06:55	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
	M3PFHxS		P080824054				20-150%	100%	
	M2-6:2 FTS		P080824054				20-150%	102%	
	M8PFOA		P080824054				20-150%	93.2%	
	M9PFNA		P080824054				20-150%	85.4%	
	M8PFOS		P080824054				20-150%	90.1%	
	M2-8:2 FTS		P080824054				20-150%	84.3%	
	M8FOSA-I		P080824054				20-150%	56.3%	
	M6PFDA		P080824054				20-150%	91.4%	
	d3-N-MeFOSAA		P080824054				20-150%	85.0%	
	d5-N-EtFOSAA		P080824054				20-150%	77.5%	
	M7PFUdA		P080824054				20-150%	83.2%	
	MPFDoA		P080824054				20-150%	56.2%	
	M2PFTeDA		P080824054				20-150%	11.6%	Q
	d3-N-MeFOSA		P080824054				10-200%	3.53%	Q
	d5-N-EtFOSA		P080824054				10-200%	2.19%	Q
	d7-N-MeFOSE		P080824054				10-200%	17.6%	
	d9-N-EtFOSE		P080824054				10-200%	13.7%	

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W15		
Sampling Site			
Enthalpy ID	0824-703-010-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 09:23	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	292.02
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 07:18	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	PFBA	375-22-4	P080824055	ND	0.548	0.548			U
	PFPeA	2706-90-3	P080824055	ND	0.548	0.548			U
	PFHxA	307-24-4	P080824055	ND	0.548	0.548			U
	PFHpA	375-85-9	P080824055	ND	0.548	0.548			U
	PFOA	335-67-1	P080824055	ND	0.548	0.548			U
	PFNA	375-95-1	P080824055	ND	0.548	0.548			U
	PFDA	335-76-2	P080824055	ND	0.548	0.548			U
	PFUnDA	2058-94-8	P080824055	ND	0.548	0.548			U
	PFDoDA	307-55-1	P080824055	ND	0.548	0.548			U
	PFTrDA	72629-94-8	P080824055	ND	0.548	0.548			U
	PFTeDA	376-06-7	P080824055	ND	0.548	0.548			U
	PFHxDA	67905-19-5	P080824055	ND	0.548	0.548			U
Sulfonates	PFBS	375-73-5	P080824055	ND	0.548	0.548			U
	PFPeS	2706-91-4	P080824055	ND	0.516	0.516			U
	PFHxS	355-46-4	P080824055	ND	0.502	0.502			U
	PFHpS	375-92-8	P080824055	ND	0.522	0.522			U
	PFOS	1763-23-1	P080824055	ND	0.508	0.508			U
	PFNS	68259-12-1	P080824055	ND	0.528	0.528			U
	PFDS	335-77-3	P080824055	ND	0.528	0.528			U
	4:2 FTS	757124-72-4	P080824055	ND	0.513	0.513			U
	6:2 FTS	27619-97-2	P080824055	ND	0.522	0.522			U
	8:2 FTS	39108-34-4	P080824055	ND	0.525	0.525			U
	10:2 FTS	120226-60-0	P080824055	ND	0.548	0.548			U
Sulfonamidos	FBSA	30334-69-1	P080824055	ND	0.548	0.548			U
	N-EtFOSA	4151-50-2	P080824055	ND	0.548	0.548			U
	N-EtFOSAA	2991-50-6	P080824055	ND	0.548	0.548			U
	N-EtFOSE	1691-99-2	P080824055	ND	2.47	2.47			U
	N-MeFOSA	31506-32-8	P080824055	ND	0.548	0.548			U
	N-MeFOSAA	2355-31-9	P080824055	ND	0.548	0.548			U
	N-MeFOSE	24448-09-7	P080824055	ND	2.47	2.47			U
	PFOSA	754-91-6	P080824055	ND	0.548	0.548			U
PFECAs	ADONA	919005-14-4	P080824055	ND	0.519	0.519			U
	EVE Acid	69087-46-3	P080824055	ND	1.23	1.23			U
	HFPO-DA	13252-13-6	P080824055	ND	0.548	0.548			U
	Hydro-EVE Acid	773804-62-9	P080824055	ND	0.548	0.548			U
	NFDHA	151772-58-6	P080824055	ND	0.548	0.548			U
	PEPA	267239-61-2	P080824055	ND	0.548	0.548			U
	PFECA-G	801212-59-9	P080824055	ND	0.548	0.548			U
	PFMOAA	674-13-5	P080824055	0.493	0.548	0.548			L
	PFMOBA	863090-89-5	P080824055	ND	1.23	1.23			U
	PFMOPrA	377-73-1	P080824055	ND	0.548	0.548			U
	PFO2HxA	39492-88-1	P080824055	ND	0.548	0.548			U
	PFO3OA	39492-89-2	P080824055	ND	0.548	0.548			U
	PFO4DA	39492-90-5	P080824055	ND	2.74	2.74			U
	PFO5DA	39492-91-6	P080824055	ND	2.74	2.74			U
	PMPA	13140-29-9	P080824055	ND	0.548	0.548			U
	R-EVE	2416366-22-6	P080824055	ND	1.23	1.23			U
PFESAs	11Cl-PF3OUdS	763051-92-9	P080824055	ND	0.516	0.516			U
	9Cl-PF3ONS	756426-58-1	P080824055	ND	0.510	0.510			U
	Hydrolyzed PSDA	2416366-19-1	P080824055	ND	0.548	0.548			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	P080824055	ND	0.548	0.548			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	P080824055	ND	0.548	0.548			U
	NVHOS	1132933-86-8	P080824055	ND	0.548	0.548			U
	PFEESA	113507-82-7	P080824055	ND	0.548	0.548			U
	R-PSDA	2416366-18-0	P080824055	ND	2.41	2.41			U
	R-PSDCA	2416366-21-5	P080824055	0.0129	0.548	0.548			L
ES	MPFBA		P080824055				20-150%	89.9%	
	M5PFPeA		P080824055				20-150%	252%	Q
	M3PFBS		P080824055				20-150%	61.6%	Ac
	M2-4:2 FTS		P080824055				20-150%	76.9%	
	M5PFHxA		P080824055				20-150%	69.4%	
	M3HFPO-DA		P080824055				20-150%	88.8%	
	M4PFHpA		P080824055				20-150%	88.5%	

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W15		
Sampling Site			
Enthalpy ID	0824-703-010-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 09:23	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	292.02
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 07:18	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
	M3PFHxS		P080824055				20-150%	93.3%	
	M2-6:2 FTS		P080824055				20-150%	91.8%	
	M8PFOA		P080824055				20-150%	90.8%	
	M9PFNA		P080824055				20-150%	85.6%	
	M8PFOS		P080824055				20-150%	81.4%	
	M2-8:2 FTS		P080824055				20-150%	71.7%	
	M8FOSA-I		P080824055				20-150%	38.3%	
	M6PFDA		P080824055				20-150%	79.5%	
	d3-N-MeFOSAA		P080824055				20-150%	59.2%	
	d5-N-EtFOSAA		P080824055				20-150%	48.6%	
	M7PFUdA		P080824055				20-150%	64.6%	
	MPFDoA		P080824055				20-150%	39.4%	
	M2PFTeDA		P080824055				20-150%	6.88%	Q
	d3-N-MeFOSA		P080824055				10-200%	1.52%	Q
	d5-N-EtFOSA		P080824055				10-200%	0.716%	Q
	d7-N-MeFOSE		P080824055				10-200%	7.85%	Q
	d9-N-EtFOSE		P080824055				10-200%	5.14%	Q

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W8		
Sampling Site			
Enthalpy ID	0824-703-011-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 09:30	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	291.98
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 08:03	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	P080824057	ND	0.548	0.548			U
	PFPeA	2706-90-3	P080824057	ND	0.548	0.548			U
	PFHxA	307-24-4	P080824057	ND	0.548	0.548			U
	PFHpA	375-85-9	P080824057	ND	0.548	0.548			U
	PFOA	335-67-1	P080824057	ND	0.548	0.548			U
	PFNA	375-95-1	P080824057	ND	0.548	0.548			U
	PFDA	335-76-2	P080824057	ND	0.548	0.548			U
	PFUnDA	2058-94-8	P080824057	ND	0.548	0.548			U
	PFDoDA	307-55-1	P080824057	ND	0.548	0.548			U
	PFTrDA	72629-94-8	P080824057	ND	0.548	0.548			U
	PFTeDA	376-06-7	P080824057	ND	0.548	0.548			U
	PFHxDA	67905-19-5	P080824057	ND	0.548	0.548			U
Sulfonates	PFBS	375-73-5	P080824057	ND	0.548	0.548			U
	PFPeS	2706-91-4	P080824057	ND	0.516	0.516			U
	PFHxS	355-46-4	P080824057	ND	0.502	0.502			U
	PFHpS	375-92-8	P080824057	ND	0.522	0.522			U
	PFOS	1763-23-1	P080824057	ND	0.508	0.508			U
	PFNS	68259-12-1	P080824057	ND	0.528	0.528			U
	PFDS	335-77-3	P080824057	ND	0.528	0.528			U
	4:2 FTS	757124-72-4	P080824057	ND	0.513	0.513			U
	6:2 FTS	27619-97-2	P080824057	ND	0.522	0.522			U
	8:2 FTS	39108-34-4	P080824057	ND	0.525	0.525			U
	10:2 FTS	120226-60-0	P080824057	ND	0.548	0.548			U
Sulfonamidos	FBSA	30334-69-1	P080824057	ND	0.548	0.548			U
	N-EtFOSA	4151-50-2	P080824057	ND	0.548	0.548			U
	N-EtFOSAA	2991-50-6	P080824057	ND	0.548	0.548			U
	N-EtFOSE	1691-99-2	P080824057	ND	2.47	2.47			U
	N-MeFOSA	31506-32-8	P080824057	ND	0.548	0.548			U
	N-MeFOSAA	2355-31-9	P080824057	ND	0.548	0.548			U
	N-MeFOSE	24448-09-7	P080824057	ND	2.47	2.47			U
	PFOSA	754-91-6	P080824057	ND	0.548	0.548			U
PFECAs	ADONA	919005-14-4	P080824057	ND	0.519	0.519			U
	EVE Acid	69087-46-3	P080824057	ND	1.23	1.23			U
	HFPO-DA	13252-13-6	P080824057	ND	0.548	0.548			U
	Hydro-EVE Acid	773804-62-9	P080824057	ND	0.548	0.548			U
	NFDHA	151772-58-6	P080824057	ND	0.548	0.548			U
	PEPA	267239-61-2	P080824057	ND	0.548	0.548			U
	PFECA-G	801212-59-9	P080824057	ND	0.548	0.548			U
	PFMOAA	674-13-5	P080824057	0.313	0.548	0.548			L
	PFMOBA	863090-89-5	P080824057	ND	1.23	1.23			U
	PFMOPrA	377-73-1	P080824057	ND	0.548	0.548			U
	PFO2HxA	39492-88-1	P080824057	ND	0.548	0.548			U
	PFO3OA	39492-89-2	P080824057	ND	0.548	0.548			U
	PFO4DA	39492-90-5	P080824057	ND	2.74	2.74			U
	PFO5DA	39492-91-6	P080824057	ND	2.74	2.74			U
	PMPA	13140-29-9	P080824057	ND	0.548	0.548			U
	R-EVE	2416366-22-6	P080824057	ND	1.23	1.23			U
PFESAs	11Cl-PF3OUdS	763051-92-9	P080824057	ND	0.516	0.516			U
	9Cl-PF3ONS	756426-58-1	P080824057	ND	0.510	0.510			U
	Hydrolyzed PSDA	2416366-19-1	P080824057	ND	0.548	0.548			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	P080824057	ND	0.548	0.548			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	P080824057	ND	0.548	0.548			U
	NVHOS	1132933-86-8	P080824057	ND	0.548	0.548			U
	PFEESA	113507-82-7	P080824057	ND	0.548	0.548			U
	R-PSDA	2416366-18-0	P080824057	ND	2.41	2.41			U
	R-PSDCA	2416366-21-5	P080824057	ND	0.548	0.548			U
ES	MPFBA		P080824057				20-150%	92.3%	
	M5PFPeA		P080824057				20-150%	207%	Q
	M3PFBS		P080824057				20-150%	371%	Q
	M2-4:2 FTS		P080824057				20-150%	85.7%	
	M5PFHxA		P080824057				20-150%	74.4%	
	M3HFPO-DA		P080824057				20-150%	89.3%	
	M4PFHpA		P080824057				20-150%	87.7%	

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W8		
Sampling Site			
Enthalpy ID	0824-703-011-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 09:30	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	291.98
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 08:03	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		P080824057				20-150%	89.2%	
	M2-6:2 FTS		P080824057				20-150%	93.0%	
	M8PFOA		P080824057				20-150%	91.4%	
	M9PFNA		P080824057				20-150%	87.7%	
	M8PFOS		P080824057				20-150%	84.4%	
	M2-8:2 FTS		P080824057				20-150%	80.1%	
	M8FOSA-I		P080824057				20-150%	39.0%	
	M6PFDA		P080824057				20-150%	84.6%	
	d3-N-MeFOSAA		P080824057				20-150%	82.9%	
	d5-N-EtFOSAA		P080824057				20-150%	75.6%	
	M7PFUdA		P080824057				20-150%	85.5%	
	MPFDoA		P080824057				20-150%	67.3%	
	M2PFTeDA		P080824057				20-150%	36.6%	
	d3-N-MeFOSA		P080824057				10-200%	3.77%	Q
	d5-N-EtFOSA		P080824057				10-200%	3.86%	Q
	d7-N-MeFOSE		P080824057				10-200%	18.3%	
	d9-N-EtFOSE		P080824057				10-200%	16.6%	

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W12A		
Sampling Site			
Enthalpy ID	0824-703-012-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 09:41	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	287.42
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 08:26	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	P080824058	ND	0.557	0.557			U
	PFPeA	2706-90-3	P080824058	ND	0.557	0.557			U
	PFHxA	307-24-4	P080824058	ND	0.557	0.557			U
	PFHpA	375-85-9	P080824058	ND	0.557	0.557			U
	PFOA	335-67-1	P080824058	ND	0.557	0.557			U
	PFNA	375-95-1	P080824058	ND	0.557	0.557			U
	PFDA	335-76-2	P080824058	ND	0.557	0.557			U
	PFUnDA	2058-94-8	P080824058	ND	0.557	0.557			U
	PFDoDA	307-55-1	P080824058	ND	0.557	0.557			U
	PFTrDA	72629-94-8	P080824058	ND	0.557	0.557			U
	PFTeDA	376-06-7	P080824058	ND	0.557	0.557			U
	PFHxDA	67905-19-5	P080824058	ND	0.557	0.557			U
Sulfonates	PFBS	375-73-5	P080824058	ND	0.557	0.557			U
	PFPeS	2706-91-4	P080824058	ND	0.524	0.524			U
	PFHxS	355-46-4	P080824058	ND	0.510	0.510			U
	PFHpS	375-92-8	P080824058	ND	0.530	0.530			U
	PFOS	1763-23-1	P080824058	0.117	0.516	0.516			L
	PFNS	68259-12-1	P080824058	ND	0.536	0.536			U
	PFDS	335-77-3	P080824058	ND	0.536	0.536			U
	4:2 FTS	757124-72-4	P080824058	ND	0.522	0.522			U
	6:2 FTS	27619-97-2	P080824058	ND	0.530	0.530			U
	8:2 FTS	39108-34-4	P080824058	ND	0.533	0.533			U
	10:2 FTS	120226-60-0	P080824058	ND	0.557	0.557			U
Sulfonamidos	FBSA	30334-69-1	P080824058	ND	0.557	0.557			U
	N-EtFOSA	4151-50-2	P080824058	ND	0.557	0.557			U
	N-EtFOSAA	2991-50-6	P080824058	ND	0.557	0.557			U
	N-EtFOSE	1691-99-2	P080824058	ND	2.51	2.51			U
	N-MeFOSA	31506-32-8	P080824058	ND	0.557	0.557			U
	N-MeFOSAA	2355-31-9	P080824058	ND	0.557	0.557			U
	N-MeFOSE	24448-09-7	P080824058	ND	2.51	2.51			U
	PFOSA	754-91-6	P080824058	ND	0.557	0.557			U
PFECAs	ADONA	919005-14-4	P080824058	ND	0.527	0.527			U
	EVE Acid	69087-46-3	P080824058	ND	1.25	1.25			U
	HFPO-DA	13252-13-6	P080824058	ND	0.557	0.557			U
	Hydro-EVE Acid	773804-62-9	P080824058	ND	0.557	0.557			U
	NFDHA	151772-58-6	P080824058	ND	0.557	0.557			U
	PEPA	267239-61-2	P080824058	ND	0.557	0.557			U
	PFECA-G	801212-59-9	P080824058	ND	0.557	0.557			U
	PFMOAA	674-13-5	P080824058	2.12	0.557	0.557			
	PFMOBA	863090-89-5	P080824058	ND	1.25	1.25			U
	PFMOPrA	377-73-1	P080824058	ND	0.557	0.557			U
	PFO2HxA	39492-88-1	P080824058	ND	0.557	0.557			U
	PFO3OA	39492-89-2	P080824058	ND	0.557	0.557			U
	PFO4DA	39492-90-5	P080824058	ND	2.78	2.78			U
	PFO5DA	39492-91-6	P080824058	ND	2.78	2.78			U
	PMPA	13140-29-9	P080824058	ND	0.557	0.557			U
	R-EVE	2416366-22-6	P080824058	ND	1.25	1.25			U
PFESAs	11Cl-PF3OUdS	763051-92-9	P080824058	ND	0.524	0.524			U
	9Cl-PF3ONS	756426-58-1	P080824058	ND	0.519	0.519			U
	Hydrolyzed PSDA	2416366-19-1	P080824058	ND	0.557	0.557			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	P080824058	ND	0.557	0.557			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	P080824058	ND	0.557	0.557			U
	NVHOS	1132933-86-8	P080824058	ND	0.557	0.557			U
	PFEESA	113507-82-7	P080824058	ND	0.557	0.557			U
	R-PSDA	2416366-18-0	P080824058	ND	2.45	2.45			U
	R-PSDCA	2416366-21-5	P080824058	0.0132	0.557	0.557			L
ES	MPFBA		P080824058				20-150%	83.5%	
	M5PFPeA		P080824058				20-150%	198%	Q
	M3PFBS		P080824058				20-150%	382%	Q
	M2-4:2 FTS		P080824058				20-150%	90.2%	
	M5PFHxA		P080824058				20-150%	75.2%	
	M3HFPO-DA		P080824058				20-150%	91.4%	
	M4PFHpA		P080824058				20-150%	91.1%	

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W12A		
Sampling Site			
Enthalpy ID	0824-703-012-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 09:41	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	287.42
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 08:26	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		P080824058				20-150%	97.3%	
	M2-6:2 FTS		P080824058				20-150%	98.7%	
	M8PFOA		P080824058				20-150%	88.8%	
	M9PFNA		P080824058				20-150%	86.4%	
	M8PFOS		P080824058				20-150%	89.2%	
	M2-8:2 FTS		P080824058				20-150%	81.0%	
	M8FOSA-I		P080824058				20-150%	38.9%	
	M6PFDA		P080824058				20-150%	90.5%	
	d3-N-MeFOSAA		P080824058				20-150%	82.6%	
	d5-N-EtFOSAA		P080824058				20-150%	74.9%	
	M7PFUdA		P080824058				20-150%	83.0%	
	MPFDoA		P080824058				20-150%	59.0%	
	M2PFTeDA		P080824058				20-150%	15.4%	Q
	d3-N-MeFOSA		P080824058				10-200%	2.79%	Q
	d5-N-EtFOSA		P080824058				10-200%	1.79%	Q
	d7-N-MeFOSE		P080824058				10-200%	14.0%	
	d9-N-EtFOSE		P080824058				10-200%	11.5%	

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W12		
Sampling Site			
Enthalpy ID	0824-703-013-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 09:50	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	285.01
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 08:48	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	P080824059	ND	0.561	0.561			U
	PFPeA	2706-90-3	P080824059	ND	0.561	0.561			U
	PFHxA	307-24-4	P080824059	ND	0.561	0.561			U
	PFHpA	375-85-9	P080824059	ND	0.561	0.561			U
	PFOA	335-67-1	P080824059	ND	0.561	0.561			U
	PFNA	375-95-1	P080824059	ND	0.561	0.561			U
	PFDA	335-76-2	P080824059	ND	0.561	0.561			U
	PFUnDA	2058-94-8	P080824059	ND	0.561	0.561			U
	PFDoDA	307-55-1	P080824059	ND	0.561	0.561			U
	PFTrDA	72629-94-8	P080824059	ND	0.561	0.561			U
	PFTeDA	376-06-7	P080824059	ND	0.561	0.561			U
	PFHxDA	67905-19-5	P080824059	ND	0.561	0.561			U
Sulfonates	PFBS	375-73-5	P080824059	ND	0.561	0.561			U
	PFPeS	2706-91-4	P080824059	ND	0.529	0.529			U
	PFHxS	355-46-4	P080824059	0.463	0.514	0.514			L
	PFHpS	375-92-8	P080824059	ND	0.535	0.535			U
	PFOS	1763-23-1	P080824059	1.80	0.520	0.520			
	PFNS	68259-12-1	P080824059	ND	0.541	0.541			U
	PFDS	335-77-3	P080824059	ND	0.541	0.541			U
	4:2 FTS	757124-72-4	P080824059	ND	0.526	0.526			U
	6:2 FTS	27619-97-2	P080824059	ND	0.535	0.535			U
	8:2 FTS	39108-34-4	P080824059	ND	0.538	0.538			U
	10:2 FTS	120226-60-0	P080824059	ND	0.561	0.561			U
Sulfonamidos	FBSA	30334-69-1	P080824059	ND	0.561	0.561			U
	N-EtFOSA	4151-50-2	P080824059	ND	0.561	0.561			U
	N-EtFOSAA	2991-50-6	P080824059	ND	0.561	0.561			U
	N-EtFOSE	1691-99-2	P080824059	ND	2.53	2.53			U
	N-MeFOSA	31506-32-8	P080824059	ND	0.561	0.561			U
	N-MeFOSAA	2355-31-9	P080824059	ND	0.561	0.561			U
	N-MeFOSE	24448-09-7	P080824059	ND	2.53	2.53			U
	PFOSA	754-91-6	P080824059	ND	0.561	0.561			U
PFECAs	ADONA	919005-14-4	P080824059	ND	0.532	0.532			U
	EVE Acid	69087-46-3	P080824059	ND	1.26	1.26			U
	HFPO-DA	13252-13-6	P080824059	0.460	0.561	0.561			L
	Hydro-EVE Acid	773804-62-9	P080824059	ND	0.561	0.561			U
	NFDHA	151772-58-6	P080824059	ND	0.561	0.561			U
	PEPA	267239-61-2	P080824059	ND	0.561	0.561			U
	PFECA-G	801212-59-9	P080824059	ND	0.561	0.561			U
	PFMOAA	674-13-5	P080824059	19.0	0.561	0.561			
	PFMOBA	863090-89-5	P080824059	ND	1.26	1.26			U
	PFMOPrA	377-73-1	P080824059	ND	0.561	0.561			U
	PFO2HxA	39492-88-1	P080824059	1.58	0.561	0.561			
	PFO3OA	39492-89-2	P080824059	ND	0.561	0.561			U
	PFO4DA	39492-90-5	P080824059	ND	2.81	2.81			U
	PFO5DA	39492-91-6	P080824059	ND	2.81	2.81			U
	PMPA	13140-29-9	P080824059	ND	0.561	0.561			U
	R-EVE	2416366-22-6	P080824059	ND	1.26	1.26			U
PFESAs	11Cl-PF3OUdS	763051-92-9	P080824059	ND	0.529	0.529			U
	9Cl-PF3ONS	756426-58-1	P080824059	ND	0.523	0.523			U
	Hydrolyzed PSDA	2416366-19-1	P080824059	ND	0.561	0.561			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	P080824059	ND	0.561	0.561			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	P080824059	ND	0.561	0.561			U
	NVHOS	1132933-86-8	P080824059	ND	0.561	0.561			U
	PFEESA	113507-82-7	P080824059	ND	0.561	0.561			U
	R-PSDA	2416366-18-0	P080824059	ND	2.47	2.47			U
	R-PSDCA	2416366-21-5	P080824059	0.0358	0.561	0.561			L
ES	MPFBA		P080824059				20-150%	90.0%	
	M5PFPeA		P080824059				20-150%	223%	Q
	M3PFBS		P080824059				20-150%	59.6%	Ac
	M2-4:2 FTS		P080824059				20-150%	88.2%	
	M5PFHxA		P080824059				20-150%	74.9%	
	M3HFPO-DA		P080824059				20-150%	95.3%	
	M4PFHpA		P080824059				20-150%	94.4%	

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W12		
Sampling Site			
Enthalpy ID	0824-703-013-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 09:50	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	285.01
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 08:48	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		P080824059				20-150%	100%	
	M2-6:2 FTS		P080824059				20-150%	104%	
	M8PFOA		P080824059				20-150%	94.9%	
	M9PFNA		P080824059				20-150%	88.9%	
	M8PFOS		P080824059				20-150%	90.9%	
	M2-8:2 FTS		P080824059				20-150%	82.2%	
	M8FOSA-I		P080824059				20-150%	54.9%	
	M6PFDA		P080824059				20-150%	90.1%	
	d3-N-MeFOSAA		P080824059				20-150%	84.2%	
	d5-N-EtFOSAA		P080824059				20-150%	76.2%	
	M7PFUdA		P080824059				20-150%	77.5%	
	MPFDoA		P080824059				20-150%	50.4%	
	M2PFTeDA		P080824059				20-150%	12.1%	Q
	d3-N-MeFOSA		P080824059				10-200%	3.35%	Q
	d5-N-EtFOSA		P080824059				10-200%	2.54%	Q
	d7-N-MeFOSE		P080824059				10-200%	25.2%	
	d9-N-EtFOSE		P080824059				10-200%	19.8%	

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W11		
Sampling Site			
Enthalpy ID	0824-703-014-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 09:58	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	285.87
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 09:11	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	P080824060	ND	0.560	0.560			U
	PFPeA	2706-90-3	P080824060	ND	0.560	0.560			U
	PFHxA	307-24-4	P080824060	ND	0.560	0.560			U
	PFHpA	375-85-9	P080824060	ND	0.560	0.560			U
	PFOA	335-67-1	P080824060	ND	0.560	0.560			U
	PFNA	375-95-1	P080824060	ND	0.560	0.560			U
	PFDA	335-76-2	P080824060	ND	0.560	0.560			U
	PFUnDA	2058-94-8	P080824060	ND	0.560	0.560			U
	PFDoDA	307-55-1	P080824060	ND	0.560	0.560			U
	PFTrDA	72629-94-8	P080824060	ND	0.560	0.560			U
	PFTeDA	376-06-7	P080824060	ND	0.560	0.560			U
	PFHxDA	67905-19-5	P080824060	ND	0.560	0.560			U
Sulfonates	PFBS	375-73-5	P080824060	ND	0.560	0.560			U
	PFPeS	2706-91-4	P080824060	ND	0.527	0.527			U
	PFHxS	355-46-4	P080824060	ND	0.513	0.513			U
	PFHpS	375-92-8	P080824060	ND	0.533	0.533			U
	PFOS	1763-23-1	P080824060	ND	0.518	0.518			U
	PFNS	68259-12-1	P080824060	ND	0.539	0.539			U
	PFDS	335-77-3	P080824060	ND	0.539	0.539			U
	4:2 FTS	757124-72-4	P080824060	ND	0.524	0.524			U
	6:2 FTS	27619-97-2	P080824060	ND	0.533	0.533			U
	8:2 FTS	39108-34-4	P080824060	ND	0.536	0.536			U
	10:2 FTS	120226-60-0	P080824060	ND	0.560	0.560			U
Sulfonamidos	FBSA	30334-69-1	P080824060	ND	0.560	0.560			U
	N-EtFOSA	4151-50-2	P080824060	ND	0.560	0.560			U
	N-EtFOSAA	2991-50-6	P080824060	ND	0.560	0.560			U
	N-EtFOSE	1691-99-2	P080824060	ND	2.52	2.52			U
	N-MeFOSA	31506-32-8	P080824060	ND	0.560	0.560			U
	N-MeFOSAA	2355-31-9	P080824060	ND	0.560	0.560			U
	N-MeFOSE	24448-09-7	P080824060	ND	2.52	2.52			U
	PFOSA	754-91-6	P080824060	ND	0.560	0.560			U
PFECAs	ADONA	919005-14-4	P080824060	ND	0.530	0.530			U
	EVE Acid	69087-46-3	P080824060	ND	1.26	1.26			U
	HFPO-DA	13252-13-6	P080824060	0.00642	0.560	0.560			L
	Hydro-EVE Acid	773804-62-9	P080824060	ND	0.560	0.560			U
	NFDHA	151772-58-6	P080824060	ND	0.560	0.560			U
	PEPA	267239-61-2	P080824060	ND	0.560	0.560			U
	PFECA-G	801212-59-9	P080824060	ND	0.560	0.560			U
	PFMOAA	674-13-5	P080824060	6.63	0.560	0.560			
	PFMOBA	863090-89-5	P080824060	ND	1.26	1.26			U
	PFMOPrA	377-73-1	P080824060	ND	0.560	0.560			U
	PFO2HxA	39492-88-1	P080824060	ND	0.560	0.560			U
	PFO3OA	39492-89-2	P080824060	ND	0.560	0.560			U
	PFO4DA	39492-90-5	P080824060	ND	2.80	2.80			U
	PFO5DA	39492-91-6	P080824060	ND	2.80	2.80			U
	PMPA	13140-29-9	P080824060	ND	0.560	0.560			U
	R-EVE	2416366-22-6	P080824060	ND	1.26	1.26			U
PFESAs	11Cl-PF3OUdS	763051-92-9	P080824060	ND	0.527	0.527			U
	9Cl-PF3ONS	756426-58-1	P080824060	ND	0.521	0.521			U
	Hydrolyzed PSDA	2416366-19-1	P080824060	ND	0.560	0.560			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	P080824060	ND	0.560	0.560			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	P080824060	ND	0.560	0.560			U
	NVHOS	1132933-86-8	P080824060	ND	0.560	0.560			U
	PFEESA	113507-82-7	P080824060	ND	0.560	0.560			U
	R-PSDA	2416366-18-0	P080824060	ND	2.47	2.47			U
	R-PSDCA	2416366-21-5	P080824060	ND	0.560	0.560			U
ES	MPFBA		P080824060				20-150%	89.8%	
	M5PFPeA		P080824060				20-150%	234%	Q
	M3PFBS		P080824060				20-150%	64.1%	Ac
	M2-4:2 FTS		P080824060				20-150%	79.8%	
	M5PFHxA		P080824060				20-150%	68.9%	
	M3HFPO-DA		P080824060				20-150%	84.1%	
	M4PFHpA		P080824060				20-150%	87.3%	

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W11		
Sampling Site			
Enthalpy ID	0824-703-014-2	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date	2024-08-01 09:58	Instrument	Pippin
Received Date	2024-08-01	Sample Vol mL	285.87
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 09:11	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		P080824060				20-150%	89.9%	
	M2-6:2 FTS		P080824060				20-150%	96.6%	
	M8PFOA		P080824060				20-150%	89.2%	
	M9PFNA		P080824060				20-150%	80.7%	
	M8PFOS		P080824060				20-150%	75.8%	
	M2-8:2 FTS		P080824060				20-150%	60.8%	
	M8FOSA-I		P080824060				20-150%	51.1%	
	M6PFDA		P080824060				20-150%	67.1%	
	d3-N-MeFOSAA		P080824060				20-150%	54.9%	
	d5-N-EtFOSAA		P080824060				20-150%	44.2%	
	M7PFUdA		P080824060				20-150%	50.9%	
	MPFDoA		P080824060				20-150%	31.2%	
	M2PFTeDA		P080824060				20-150%	4.61%	Q
	d3-N-MeFOSA		P080824060				10-200%	1.92%	Q
	d5-N-EtFOSA		P080824060				10-200%	0.930%	Q
	d7-N-MeFOSE		P080824060				10-200%	13.1%	
	d9-N-EtFOSE		P080824060				10-200%	8.00%	Q

Enthalpy Analytical

Job No.: 0824-703-3 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W6A		
Sampling Site			
Enthalpy ID	0824-703-001-1	Prep Batch	EU17910
Matrix	aqueous	Analyst	ext-magennaef
Sampling Date	2024-08-01 07:47	Instrument	Bumblebee
Received Date	2024-08-01	Sample Vol mL	0.1
Prep Date	2024-08-05 10:50	Extract Vol mL	0.2
AnalysisDate	2024-08-06 19:36	Split Factor	N/A
SampleType	Sample	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	B060824-08061936	ND	700	1530			U
ES	13C3-PFPrA		B060824-08061936				20-150%	154%	Q

Enthalpy Analytical

Job No.: 0824-703-3 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W5		
Sampling Site			
Enthalpy ID	0824-703-002-1	Prep Batch	EU17910
Matrix	aqueous	Analyst	ext-magennaef
Sampling Date	2024-08-01 08:08	Instrument	Bumblebee
Received Date	2024-08-01	Sample Vol mL	0.1
Prep Date	2024-08-05 10:50	Extract Vol mL	0.2
AnalysisDate	2024-08-06 19:48	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	B060824-08061948	ND	700	1530			U
ES	13C3-PFPrA		B060824-08061948				20-150%	167%	Q

Enthalpy Analytical

Job No.: 0824-703-3 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W3		
Sampling Site			
Enthalpy ID	0824-703-003-1	Prep Batch	EU17910
Matrix	aqueous	Analyst	ext-magennaef
Sampling Date	2024-08-01 08:18	Instrument	Bumblebee
Received Date	2024-08-01	Sample Vol mL	0.1
Prep Date	2024-08-05 10:50	Extract Vol mL	0.2
AnalysisDate	2024-08-06 19:59	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	B060824-08061959	ND	700	1530			U
ES	13C3-PFPrA		B060824-08061959				20-150%	158%	Q

Enthalpy Analytical

Job No.: 0824-703-3 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W1		
Sampling Site			
Enthalpy ID	0824-703-004-1	Prep Batch	EU17910
Matrix	aqueous	Analyst	ext-magennaef
Sampling Date	2024-08-01 08:27	Instrument	Bumblebee
Received Date	2024-08-01	Sample Vol mL	0.1
Prep Date	2024-08-05 10:50	Extract Vol mL	0.2
AnalysisDate	2024-08-06 20:11	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	B060824-08062011	ND	700	1530			U
ES	13C3-PFPrA		B060824-08062011				20-150%	162%	Q

Enthalpy Analytical

Job No.: 0824-703-3 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W2		
Sampling Site			
Enthalpy ID	0824-703-005-1	Prep Batch	EU17910
Matrix	aqueous	Analyst	ext-magennaef
Sampling Date	2024-08-01 08:36	Instrument	Bumblebee
Received Date	2024-08-01	Sample Vol mL	0.1
Prep Date	2024-08-05 10:50	Extract Vol mL	0.2
AnalysisDate	2024-08-06 20:23	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	B060824-08062023	ND	700	1530			U
ES	13C3-PFPrA		B060824-08062023				20-150%	160%	Q

Enthalpy Analytical

Job No.: 0824-703-3 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W16		
Sampling Site			
Enthalpy ID	0824-703-006-1	Prep Batch	EU17910
Matrix	aqueous	Analyst	ext-magennaef
Sampling Date	2024-08-01 08:45	Instrument	Bumblebee
Received Date	2024-08-01	Sample Vol mL	0.1
Prep Date	2024-08-05 10:50	Extract Vol mL	0.2
AnalysisDate	2024-08-06 20:34	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	B060824-08062034	ND	700	1530			U
ES	13C3-PFPrA		B060824-08062034				20-150%	160%	Q

Enthalpy Analytical

Job No.: 0824-703-3 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W17		
Sampling Site			
Enthalpy ID	0824-703-007-1	Prep Batch	EU17910
Matrix	aqueous	Analyst	ext-magennaef
Sampling Date	2024-08-01 08:54	Instrument	Bumblebee
Received Date	2024-08-01	Sample Vol mL	0.1
Prep Date	2024-08-05 10:50	Extract Vol mL	0.2
AnalysisDate	2024-08-06 20:46	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	B060824-08062046	ND	700	1530			U
ES	13C3-PFPrA		B060824-08062046				20-150%	156%	Q

Enthalpy Analytical

Job No.: 0824-703-3 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W18		
Sampling Site			
Enthalpy ID	0824-703-008-1	Prep Batch	EU17910
Matrix	aqueous	Analyst	ext-magennaef
Sampling Date	2024-08-01 09:00	Instrument	Bumblebee
Received Date	2024-08-01	Sample Vol mL	0.1
Prep Date	2024-08-05 10:50	Extract Vol mL	0.2
AnalysisDate	2024-08-06 20:57	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	B060824-08062057	ND	700	1530			U
ES	13C3-PFPrA		B060824-08062057				20-150%	160%	Q

Enthalpy Analytical

Job No.: 0824-703-3 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W19		
Sampling Site			
Enthalpy ID	0824-703-009-1	Prep Batch	EU17910
Matrix	aqueous	Analyst	ext-magennaef
Sampling Date	2024-08-01 09:08	Instrument	Bumblebee
Received Date	2024-08-01	Sample Vol mL	0.1
Prep Date	2024-08-05 10:50	Extract Vol mL	0.2
AnalysisDate	2024-08-06 21:09	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	B060824-08062109	ND	700	1530			U
ES	13C3-PFPrA		B060824-08062109				20-150%	166%	Q

Enthalpy Analytical

Job No.: 0824-703-3 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W15		
Sampling Site			
Enthalpy ID	0824-703-010-1	Prep Batch	EU17910
Matrix	aqueous	Analyst	ext-magennaef
Sampling Date	2024-08-01 09:23	Instrument	Bumblebee
Received Date	2024-08-01	Sample Vol mL	0.1
Prep Date	2024-08-05 10:50	Extract Vol mL	0.2
AnalysisDate	2024-08-06 21:21	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	B060824-08062121	ND	700	1530			U
ES	13C3-PFPrA		B060824-08062121				20-150%	161%	Q

Enthalpy Analytical

Job No.: 0824-703-3 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W8		
Sampling Site			
Enthalpy ID	0824-703-011-1	Prep Batch	EU17910
Matrix	aqueous	Analyst	ext-magennaef
Sampling Date	2024-08-01 09:30	Instrument	Bumblebee
Received Date	2024-08-01	Sample Vol mL	0.1
Prep Date	2024-08-05 10:50	Extract Vol mL	0.2
AnalysisDate	2024-08-06 21:44	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	B060824-08062144	ND	700	1530			U
ES	13C3-PFPrA		B060824-08062144				20-150%	167%	Q

Enthalpy Analytical

Job No.: 0824-703-3 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W12A		
Sampling Site			
Enthalpy ID	0824-703-012-1	Prep Batch	EU17910
Matrix	aqueous	Analyst	ext-magennaef
Sampling Date	2024-08-01 09:41	Instrument	Bumblebee
Received Date	2024-08-01	Sample Vol mL	0.1
Prep Date	2024-08-05 10:50	Extract Vol mL	0.2
AnalysisDate	2024-08-06 21:56	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	B060824-08062156	ND	700	1530			U
ES	13C3-PFPrA		B060824-08062156				20-150%	155%	Q

Enthalpy Analytical

Job No.: 0824-703-3 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W12		
Sampling Site			
Enthalpy ID	0824-703-013-1	Prep Batch	EU17910
Matrix	aqueous	Analyst	ext-magennaef
Sampling Date	2024-08-01 09:50	Instrument	Bumblebee
Received Date	2024-08-01	Sample Vol mL	0.1
Prep Date	2024-08-05 10:50	Extract Vol mL	0.2
AnalysisDate	2024-08-06 22:07	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	B060824-08062207	ND	700	1530			U
ES	13C3-PFPrA		B060824-08062207				20-150%	164%	Q

Enthalpy Analytical

Job No.: 0824-703-3 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	080124 W11		
Sampling Site			
Enthalpy ID	0824-703-014-1	Prep Batch	EU17910
Matrix	aqueous	Analyst	ext-magennaef
Sampling Date	2024-08-01 09:58	Instrument	Bumblebee
Received Date	2024-08-01	Sample Vol mL	0.1
Prep Date	2024-08-05 10:50	Extract Vol mL	0.2
AnalysisDate	2024-08-06 22:19	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	B060824-08062219	ND	700	1530			U
ES	13C3-PFPrA		B060824-08062219				20-150%	163%	Q

QC Data

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	MB_17911_PFAS		
Sampling Site			
Enthalpy ID	MB_17911_PFAS	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date		Instrument	Pippin
Received Date		Sample Vol mL	250
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 03:09	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	P080824044	ND	0.640	0.640			U
	PFPeA	2706-90-3	P080824044	ND	0.640	0.640			U
	PFHxA	307-24-4	P080824044	ND	0.640	0.640			U
	PFHpA	375-85-9	P080824044	ND	0.640	0.640			U
	PFOA	335-67-1	P080824044	ND	0.640	0.640			U
	PFNA	375-95-1	P080824044	ND	0.640	0.640			U
	PFDA	335-76-2	P080824044	ND	0.640	0.640			U
	PFUnDA	2058-94-8	P080824044	ND	0.640	0.640			U
	PFDoDA	307-55-1	P080824044	ND	0.640	0.640			U
	PFTrDA	72629-94-8	P080824044	ND	0.640	0.640			U
	PFTeDA	376-06-7	P080824044	ND	0.640	0.640			U
	PFHxDA	67905-19-5	P080824044	ND	0.640	0.640			U
Sulfonates	PFBS	375-73-5	P080824044	ND	0.640	0.640			U
	PFPeS	2706-91-4	P080824044	ND	0.603	0.603			U
	PFHxS	355-46-4	P080824044	ND	0.586	0.586			U
	PFHpS	375-92-8	P080824044	ND	0.610	0.610			U
	PFOS	1763-23-1	P080824044	ND	0.593	0.593			U
	PFNS	68259-12-1	P080824044	ND	0.616	0.616			U
	PFDS	335-77-3	P080824044	ND	0.616	0.616			U
	4:2 FTS	757124-72-4	P080824044	ND	0.600	0.600			U
	6:2 FTS	27619-97-2	P080824044	ND	0.610	0.610			U
	8:2 FTS	39108-34-4	P080824044	ND	0.613	0.613			U
	10:2 FTS	120226-60-0	P080824044	ND	0.640	0.640			U
Sulfonamidos	FBSA	30334-69-1	P080824044	ND	0.640	0.640			U
	N-EtFOSA	4151-50-2	P080824044	ND	0.640	0.640			U
	N-EtFOSAA	2991-50-6	P080824044	ND	0.640	0.640			U
	N-EtFOSE	1691-99-2	P080824044	ND	2.88	2.88			U
	N-MeFOSA	31506-32-8	P080824044	ND	0.640	0.640			U
	N-MeFOSAA	2355-31-9	P080824044	0.0744	0.640	0.640			L
	N-MeFOSE	24448-09-7	P080824044	ND	2.88	2.88			U
	PFOSA	754-91-6	P080824044	ND	0.640	0.640			U
PFECAs	ADONA	919005-14-4	P080824044	ND	0.606	0.606			U
	EVE Acid	69087-46-3	P080824044	ND	1.44	1.44			U
	HFPO-DA	13252-13-6	P080824044	ND	0.640	0.640			U
	Hydro-EVE Acid	773804-62-9	P080824044	ND	0.640	0.640			U
	NFDHA	151772-58-6	P080824044	ND	0.640	0.640			U
	PEPA	267239-61-2	P080824044	ND	0.640	0.640			U
	PFECA-G	801212-59-9	P080824044	ND	0.640	0.640			U
	PFMOAA	674-13-5	P080824044	0.128	0.640	0.640			L
	PFMOBA	863090-89-5	P080824044	ND	1.44	1.44			U
	PFMOPrA	377-73-1	P080824044	ND	0.640	0.640			U
	PFO2HxA	39492-88-1	P080824044	ND	0.640	0.640			U
	PFO3OA	39492-89-2	P080824044	ND	0.640	0.640			U
	PFO4DA	39492-90-5	P080824044	ND	3.20	3.20			U
	PFO5DA	39492-91-6	P080824044	ND	3.20	3.20			U
	PMPA	13140-29-9	P080824044	ND	0.640	0.640			U
	R-EVE	2416366-22-6	P080824044	ND	1.44	1.44			U
PFESAs	11Cl-PF3OUdS	763051-92-9	P080824044	ND	0.603	0.603			U
	9Cl-PF3ONS	756426-58-1	P080824044	ND	0.596	0.596			U
	Hydrolyzed PSDA	2416366-19-1	P080824044	ND	0.640	0.640			U
	Nafion Byproduct 1 (PS Acid)	29311-67-9	P080824044	ND	0.640	0.640			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	P080824044	ND	0.640	0.640			U
	NVHOS	1132933-86-8	P080824044	ND	0.640	0.640			U
	PFEESA	113507-82-7	P080824044	ND	0.640	0.640			U
	R-PSDA	2416366-18-0	P080824044	ND	2.82	2.82			U
	R-PSDCA	2416366-21-5	P080824044	ND	0.640	0.640			U
ES	MPFBA		P080824044				20-150%	92.1%	
	M5PFPeA		P080824044				20-150%	84.7%	
	M3PFBS		P080824044				20-150%	81.1%	
	M2-4:2 FTS		P080824044				20-150%	125%	
	M5PFHxA		P080824044				20-150%	103%	
	M3HFPO-DA		P080824044				20-150%	100%	
	M4PFHpA		P080824044				20-150%	101%	

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	MB_17911_PFAS		
Sampling Site			
Enthalpy ID	MB_17911_PFAS	Prep Batch	EU17911
Matrix	aqueous	Analyst	alexandramejia
Sampling Date		Instrument	Pippin
Received Date		Sample Vol mL	250
Prep Date	2024-08-05 12:30	Extract Vol mL	0.4
AnalysisDate	2024-08-09 03:09	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		P080824044				20-150%	117%	
	M2-6:2 FTS		P080824044				20-150%	117%	
	M8PFOA		P080824044				20-150%	93.9%	
	M9PFNA		P080824044				20-150%	77.2%	
	M8PFOS		P080824044				20-150%	93.5%	
	M2-8:2 FTS		P080824044				20-150%	77.6%	
	M8FOSA-I		P080824044				20-150%	33.9%	
	M6PFDA		P080824044				20-150%	95.0%	
	d3-N-MeFOSAA		P080824044				20-150%	76.1%	
	d5-N-EtFOSAA		P080824044				20-150%	69.1%	
	M7PFUdA		P080824044				20-150%	76.9%	
	MPFDoA		P080824044				20-150%	53.1%	
	M2PFTeDA		P080824044				20-150%	10.3%	Q
	d3-N-MeFOSA		P080824044				10-200%	0%	UQ
	d5-N-EtFOSA		P080824044				10-200%	0%	UQ
	d7-N-MeFOSE		P080824044				10-200%	15.1%	
	d9-N-EtFOSE		P080824044				10-200%	12.6%	

Enthalpy Analytical

Job No.: 0824-703-1 PFAS by Isotope Dilution (non-potable water)

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

Enthalpy ID	OPR_17911_PFAS	Prep Batch	EU17911	Sample Vol (mL)	250
Sample Name	OPR_17911_PFAS	Prep Date	2024-08-05 12:30	Extract Vol (mL)	0.4
Matrix	aqueous	Analysis Date	2024-08-09 03:31	Split Factor	N/A
Sampling Date		Analyst	alexandramejia	Method Code	EU-047-NPW
Received Date		Instrument	Pippin	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	P080824045	20.7	0.640	0.640	69.1-122%	103.3%	
	PFPeA	2706-90-3	P080824045	19.7	0.640	0.640	68.5-121%	98.6%	
	PFHxA	307-24-4	P080824045	21.2	0.640	0.640	68.3-121%	105.8%	
	PFHpA	375-85-9	P080824045	19.6	0.640	0.640	62.4-128%	97.8%	
	PFOA	335-67-1	P080824045	20.2	0.640	0.640	66.3-124%	100.9%	
	PFNA	375-95-1	P080824045	20.4	0.640	0.640	70.5-120%	102.0%	
	PFDA	335-76-2	P080824045	20.4	0.640	0.640	68.9-117%	102.0%	
	PFUnDA	2058-94-8	P080824045	20.2	0.640	0.640	58.1-132%	101.0%	
	PFDoDA	307-55-1	P080824045	21.3	0.640	0.640	52.1-140%	106.7%	
	PFTrDA	72629-94-8	P080824045	40.8	0.640	0.640	65-144%	204.1%	Q
	PFTeDA	376-06-7	P080824045	20.5	0.640	0.640	36.1-161%	102.6%	
Sulfonates	PFBS	375-73-5	P080824045	17.6	0.640	0.640	67.5-111.6%	99.4%	
	PFPeS	2706-91-4	P080824045	18.8	0.603	0.603	51.8-142%	99.7%	
	PFHxS	355-46-4	P080824045	19.0	0.586	0.586	59.6-128%	103.8%	
	PFHpS	375-92-8	P080824045	21.3	0.610	0.610	46.9-157%	111.6%	
	PFOS	1763-23-1	P080824045	18.8	0.593	0.593	59.2-132%	101.1%	
	PFNS	68259-12-1	P080824045	18.0	0.616	0.616	53.9-133%	93.3%	
	PFDS	335-77-3	P080824045	15.2	0.616	0.616	38.1-142%	79.0%	
	4:2 FTS	757124-72-4	P080824045	19.3	0.600	0.600	61.9-131%	103.2%	
	6:2 FTS	27619-97-2	P080824045	20.2	0.610	0.610	62.3-129%	106.4%	
	8:2 FTS	39108-34-4	P080824045	20.0	0.613	0.613	37.5-159%	103.9%	
Sulfonamidos	N-EtFOSAA	2991-50-6	P080824045	22.2	0.640	0.640	61.5-133%	110.9%	
	N-MeFOSAA	2355-31-9	P080824045	20.3	0.640	0.640	57.3-138%	101.4%	
	PFOSA	754-91-6	P080824045	20.5	0.640	0.640	49.1-143%	102.4%	
ES	MPFBA		P080824045				20-150%	94.4%	
	M5PFPeA		P080824045				20-150%	87.9%	
	M3PFBS		P080824045				20-150%	87.3%	
	M2-4:2 FTS		P080824045				20-150%	96.9%	
	M5PFHxA		P080824045				20-150%	96.0%	
	M3HFPO-DA		P080824045				20-150%	100.5%	
	M4PFHpA		P080824045				20-150%	100.6%	
	M3PFHxS		P080824045				20-150%	99.9%	
	M2-6:2 FTS		P080824045				20-150%	100.0%	
	M8PFOA		P080824045				20-150%	96.9%	
	M9PFNA		P080824045				20-150%	89.5%	
	M8PFOS		P080824045				20-150%	93.6%	
	M2-8:2 FTS		P080824045				20-150%	81.9%	
	M8FOSA-I		P080824045				20-150%	19.0%	Q
	M6PFDA		P080824045				20-150%	96.0%	
	d3-N-MeFOSAA		P080824045				20-150%	88.0%	
	d5-N-EtFOSAA		P080824045				20-150%	78.0%	
	M7PFUdA		P080824045				20-150%	85.9%	
	MPFDoA		P080824045				20-150%	64.6%	
	M2PFTeDA		P080824045				20-150%	20.9%	

Enthalpy Analytical

Job No.: 0824-703-3 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	MB_17910_PFAS		
Sampling Site			
Enthalpy ID	MB_17910_PFAS	Prep Batch	EU17910
Matrix	aqueous	Analyst	ext-magennaef
Sampling Date		Instrument	Bumblebee
Received Date		Sample Vol mL	0.1
Prep Date	2024-08-05 10:50	Extract Vol mL	0.2
AnalysisDate	2024-08-06 19:13	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	B060824-08061913	ND	700	1530			U
ES	13C3-PFPrA		B060824-08061913				20-150%	123%	

Enthalpy Analytical

Job No.: 0824-703-3 PFAS by Isotope Dilution (non-potable water)

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

Details

Sample Name	OPR_17910_PFAS		
Sampling Site			
Enthalpy ID	OPR_17910_PFAS	Prep Batch	EU17910
Matrix	aqueous	Analyst	ext-magennaef
Sampling Date		Instrument	Bumblebee
Received Date		Sample Vol mL	0.08
Prep Date	2024-08-05 10:50	Extract Vol mL	0.2
AnalysisDate	2024-08-06 19:25	Split Factor	N/A
SampleType	Control	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	B060824-08061925	15500	875	1910	40-150%	62.2%	
ES	13C3-PFPrA		B060824-08061925				20-150%	147%	

Narrative Summary

Enthalpy Analytical Narrative Summary

Company	Brunswick County Public Utilities - NC
Job No.	0824-703
Client ID.	211 WATER PLANT Site: LELAND N.C.

1. Custody

Jayson-Shane Santos received the samples at 11.9 °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
0824-703-001-1	080124 W6A	aqueous	2024-08-01
0824-703-001-2	080124 W6A	aqueous	2024-08-01
0824-703-002-1	080124 W5	aqueous	2024-08-01
0824-703-002-2	080124 W5	aqueous	2024-08-01
0824-703-003-1	080124 W3	aqueous	2024-08-01
0824-703-003-2	080124 W3	aqueous	2024-08-01
0824-703-004-1	080124 W1	aqueous	2024-08-01
0824-703-004-2	080124 W1	aqueous	2024-08-01
0824-703-005-1	080124 W2	aqueous	2024-08-01
0824-703-005-2	080124 W2	aqueous	2024-08-01
0824-703-006-1	080124 W16	aqueous	2024-08-01
0824-703-006-2	080124 W16	aqueous	2024-08-01
0824-703-007-1	080124 W17	aqueous	2024-08-01
0824-703-007-2	080124 W17	aqueous	2024-08-01
0824-703-008-1	080124 W18	aqueous	2024-08-01
0824-703-008-2	080124 W18	aqueous	2024-08-01
0824-703-009-1	080124 W19	aqueous	2024-08-01
0824-703-009-2	080124 W19	aqueous	2024-08-01
0824-703-010-1	080124 W15	aqueous	2024-08-01
0824-703-010-2	080124 W15	aqueous	2024-08-01
0824-703-011-1	080124 W8	aqueous	2024-08-01
0824-703-011-2	080124 W8	aqueous	2024-08-01
0824-703-012-1	080124 W12A	aqueous	2024-08-01
0824-703-012-2	080124 W12A	aqueous	2024-08-01
0824-703-013-1	080124 W12	aqueous	2024-08-01
0824-703-013-2	080124 W12	aqueous	2024-08-01
0824-703-014-1	080124 W11	aqueous	2024-08-01
0824-703-014-2	080124 W11	aqueous	2024-08-01

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.

Enthalpy Analytical Narrative Summary

Company	Brunswick County Public Utilities - NC
Job No.	0824-703
Client ID.	211 WATER PLANT Site: LELAND N.C.

Table 3 - Methods and Analytes

EU Method	Analytes	Cleanup Method
EU-047	Custom List	ENVI-Carb

3. Analysis

The samples were analyzed using Sciex Triple Quad 7500 (LC/MS/MS "Bumblebee") and Waters Acquity UPLC equipped with Xevo TQ MS (LC/MS/MS "Pippin").

The samples were analyzed using more than one batch preparation and analytical sequence in order to include all of the analytes of interest and to meet method acceptance criteria.

PFPrA was analyzed by direct inject analysis (DIA).

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:

• OPR_17911_PFAS (PFTrDA) exceeded method recovery criteria but was not detected >LOQ in the samples; therefore, the data is reportable without adverse impact.

• Surrogates (ES) d3-N-MeFOSA and d5-N-EtFOSA were not detected in MB_17911_PFAS with results confirmed upon reinjection. These surrogates met method recovery criteria in the samples and their related analytes were ND >LOQ. The data is accepted with no adverse impact.

Select surrogates (ES) deviated from method recovery criteria in the method blank (MB) and/or OPR. Target analytes are quantified based on their ratio to their labeled standard analogs. 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.

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

Enthalpy Analytical Narrative Summary

Company	Brunswick County Public Utilities - NC
Job No.	0824-703
Client ID.	211 WATER PLANT Site: LELAND N.C.

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 sample analyses recovered outside the 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 2009 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		
	Acronym	**CAS #**	**Compound Name**
	*** accredited for SOP EU047 / EPA method 1633**		***# Method 537.1 Accredited ^ Method 533 Accredited ~EPA 1633 extended list***
	Target Analytes		
*, ^	PFBA	375-22-4	Perfluorobutanoic Acid
*, #, ^	PFPeA	2706-90-3	Perfluoropentanoic Acid
*, #, ^	PFHxA	307-24-4	Perfluorohexanoic Acid
*, #, ^	PFHpA	375-85-9	Perfluoroheptanoic Acid
*, #, ^	PFOA	335-67-1	Perfluorooctanoic Acid
*, #, ^	PFNA	375-95-1	Perfluorononanoic Acid
*, #, ^	PFDA	335-76-2	Perfluorodecanoic acid
*, #, ^	PFUnA (PFUnDA)	2058-94-8	Perfluoroundecanoic acid
*, #	PFDoA (PFDoDA)	307-55-1	Perfluorododecanoic acid
*, #	PFTrDA (PFTriA)	72629-94-8	Perfluorotridecanoic acid
*, #, ^	PFTeDA (PFTA)	376-06-7	Perfluorotetradecanoic acid
*, ^	PFBS	375-73-5	Perfluorobutane sulfonic acid
*, #, ^	PFPeS	2706-91-4	Perfluoropentane sulfonic acid
*, ^	PFHxS	355-46-4	Perfluorohexane sulfonic acid
*, #, ^	PFHpS	375-92-8	Perfluoroheptane sulfonic acid
*, #, ^	PFOS	1763-23-1	Perfluorooctane sulfonic acid
*	PFNS	68259-12-1	Perfluorononane sulfonic acid
*	PFDS	335-77-3	Perfluorodecane sulfonic acid
*, ^	4:2 FTS	757124-72-4	4:2 fluorotelomer sulfonic acid
*, ^	6:2 FTS	27619-97-2	6:2 fluorotelomer sulfonic acid
*, ^	8:2 FTS	39108-34-4	8:2 fluorotelomer sulfonic acid
~	10:2 FTS	120226-60-0	Fluorotelomer sulfonate 10:2
~	FHxSA	41997-13-1	Perfluorohexanesulfonamide
*	PFOSA (FOSA)	754-91-6	Perfluorooctane sulfonamide
*, #	N-MeFOSAA	2355-31-9	N-methyl perfluorooctane sulfonamido acetic acid
*	N-MeFOSA	31506-32-8	N-methylperfluoro-1-octanesulfonamide
*	N-MeFOSE	24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol
*, #	N-EtFOSAA	2991-50-6	N-ethyl perfluorooctane sulfonamido acetic acid
*	N-EtFOSA	4151-50-2	N-ethylperfluoro-1-octanesulfonamide
*	N-EtFOSE	1691-99-2	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol
*, #, ^	HFPO-DA	13252-13-6	2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (Gen-X)
*, #, ^	11Cl-PF3OUdS	763051-92-9	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
*, #, ^	9Cl-PF3ONS	756426-58-1	9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
*, #, ^	ADONA	919005-14-4	4,8-dioxa-3H-perfluorononanoic acid
*, ^	PFEESA	113507-82-7	Perfluoro(2-ethoxyethane)sulphonic acid
*, ^	PFMOBA (PFMBA)	863090-89-5	Perfluoro-4-methoxybutanic acid
*, ^	NFDHA	151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid
*, ^	PFMOPrA (PFMPA)	377-73-1	Perfluoro-3-methoxypropanoic acid
~	PFPrA	422-64-0	2,2,3,3,3-Pentafluoropropionic acid
~	PFPrS (PFPS)	423-41-6	Perfluoropropanesulfonic acid
~	PFMOAA	674-13-5	Perfluoro-2-methoxyacetic acid
~	PFO2HxA	39492-88-1	Perfluoro (3,5-dioxahexanoic) acid
~	PFO3OA	39492-89-2	Perfluoro (3,5,7-trioxaoctanoic) acid
~	PFO4DA	39492-90-5	Perfluoro (3,5,7,9-tetraoxadecanoic) acid
~	PFO5DA	39492-91-6	Perfluoro(3,5,7,9,11-pentaoxadodecanoic) acid
~	Nafion Byproduct 1 (PS Acid)	29311-67-9	Nafion Byproduct 1
~	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	Nafion Byproduct 2
~	PEPA	267239-61-2	Perfluoro-2-ethoxypropanoic acid
~	PMPA	13140-29-9	Perfluoro-2-methoxypropanoic acid

PFAS Compound Acronym List			
	Acronym	CAS #	Compound Name
	* accredited for SOP EU047 / EPA method 1633		*# Method 537.1 Accredited ^ Method 533 Accredited ~EPA 1633 extended list*
~	PFECA-G	801212-59-9	4-(Heptafluoroisopropoxy)hexafluorobutanoic acid
~	PFHxDA	67905-19-5	Perfluorohexadecanoic acid
~	R-PSDA (Nafion Byproduct 4)	2416366-18-0	Perfluoro-4-(2-sulfoethoxy)pentanoic acid
~	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
~	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
~	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
~	FBSA	30334-69-1	Perfluorobutylsulfonamide
~	MeFBSA	68298-12-4	1-Butanesulfonamide; (N-(Methyl)nonafluorobutanesulfonamide)
~	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
~	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
~	NVHOS	1132933-86-8	Perfluoroethoxysulfonic acid
*~	PFDoS	79780-39-5	Perfluorododecane sulfonic acid
~	PFODA	16517-11-6	Perfluorooctadecanoic acid
*	3:3 FTCA	356-02-5	2H,2H,3H,3H-Perfluorohexanoic acid
*	5:3 FTCA	914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid
*	7:3 FTCA	812-70-4	2H,2H,3H,3H-Perfluorodecanoic acid
~	N-AP-FHxSA	50598-28-2	N-(3-(Dimethylamino)propyl)tridecafluoro-1-hexanesulfonamide
~	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
~	BPAF	1478-61-1	Bisphenol AF
~	HQ-115	90076-65-6	Bis(trifluoromethane)sulfonimide lithium salt

Sample Custody

ENTHALPY analytical

0824-703 Chain of Custody Record

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:
080124 W6A	08/01/24	0747	250mL	G	GW	2														X	Please Add PFPrA and
080124 W5	08/01/24	0808	250mL	G	GW	2														X	PFHpA To All The Testing.
080124 W3	08/01/24	0818	250mL	G	GW	2														X	Mark Hager Knows About
080124 W1	08/01/24	0827	250mL	G	GW	2														X	This If you Have Questions
080124 W2	08/01/24	0836	250mL	G	GW	2														X	
080124 W16	08/01/24	0845	250mL	G	GW	2														X	
080124 W17	08/01/24	0854	250mL	G	GW	2														X	
080124 W18	08/01/24	0900	250mL	G	GW	2														X	
080124 W19	08/01/24	0908	250mL	G	GW	2														X	
080124 W15	08/01/24	0923	250mL	G	GW	2														X	
080124 W8	08/01/24	0930	250mL	G	GW	2														X	
080124 W12A	08/01/24	0941	250mL	G	GW	2														X	
080124 W12	08/01/24	0950	250mL	G	GW	2														X	
080124 W11	08/01/24	0958	250mL	G	GW	2														X	

Relinquished By:	Date:	Received By:	Date:	Time:	Sample Temperature Upon Receipt:
Kenny Revels	08/01/24		8/1/24	12:08	☑ Iced ☐ Ambient °C 11.9
					☐ Iced ☐ Ambient °C_____
					☐ Iced ☐ Ambient °C_____

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JOB ID: 0824-703 Date / Time: 8/1/24 12:08 Initials: S.S.

OR

Client: Brunswick County Utilities

Cooler 1 of 1

Temp °C: 11.9° 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:

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:

This Is The Last Page Of This Report.

ENTHALPY ANALYTICAL