Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

August 06, 2024

Amanda Albrecht
3M Environmental
3M Center, 260-05-N-17
Saint Paul, MN 551441000

RE: Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Dear Amanda Albrecht:

Enclosed are the analytical results for sample(s) received by the laboratory on May 23, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

This report was revised on August 6, 2024 to add QC qualifiers and also revised on August 6,2024, to correct a typographical error.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout
carolynne.trout@pacelabs.com
1(612)607-6351
Project Manager

Enclosures

cc: 3M Environmental Laboratory, 3M Environmental

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Pace Analytical Services, LLC - Minneapolis MN
1700 Elm Street SE, Minneapolis, MN 55414
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
DoD Certification via A2LA #: 2926.01
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
GMP+ Certification #: GMP050884
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
ISO/IEC 17025 Certification via A2LA #: 2926.01
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification via A2LA #: 2926.01
USDA Permit #: P330-19-00208

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SAMPLE SUMMARY

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10694182001	**MEWI-GW-MW3-0-240522**	Water	05/22/24 14:50	05/23/24 18:00
10694182002	**MEWI-GW-MW3-DB-240522**	Water	05/22/24 14:55	05/23/24 18:00
10694182003	**MEWI-GW-MW5-0-240523**	Water	05/23/24 08:05	05/23/24 18:00
10694182004	**MEWI-GW-MW8-0-240523**	Water	05/23/24 10:00	05/23/24 18:00
10694182005	**MEWI-GW-MW9-0-240522**	Water	05/22/24 12:45	05/23/24 18:00
10694182006	**MEWI-GW-MW10-0-240523**	Water	05/23/24 13:25	05/23/24 18:00
10694182007	**MEWI-GW-MW11-0-240523**	Water	05/23/24 11:20	05/23/24 18:00
10694182008	**MEWI-GW-MW12-0-240522**	Water	05/22/24 10:20	05/23/24 18:00
10694182009	**MEWI-GW-MW4D-0-240522**	Water	05/22/24 16:15	05/23/24 18:00
10694182010	**MEWI-GW-MW5D-0-240523**	Water	05/23/24 08:15	05/23/24 18:00
10694182011	**MEWI-GW-MW9D-0-240522**	Water	05/22/24 12:40	05/23/24 18:00
10694182012	**MEWI-GW-MW12D-0-240522**	Water	05/22/24 10:30	05/23/24 18:00
10694182013	**MEWI-GW-PZ1-0-240523**	Water	05/23/24 09:40	05/23/24 18:00
10694182014	**MEWI-GW-PZ2-0-240523**	Water	05/23/24 12:55	05/23/24 18:00
10694182015	**MEWI-GW-PZ3-0-240523**	Water	05/23/24 13:10	05/23/24 18:00
10694182016	**MEWI-GW-PZ3-DB-240523**	Water	05/23/24 13:10	05/23/24 18:00
10694182017	**MEWI-GW-PZ4-0-240523**	Water	05/23/24 13:35	05/23/24 18:00
10694182018	**MEWI-GW-PZ5-0-240523**	Water	05/23/24 13:50	05/23/24 18:00
10694182019	**MEWI-GW-PZ6-0-240523**	Water	05/23/24 14:00	05/23/24 18:00
10694182020	**MEWI-GW-PZ7-0-240523**	Water	05/23/24 14:15	05/23/24 18:00
10694182021	**MEWI-GW-PZ8-0-240523**	Water	05/23/24 15:15	05/23/24 18:00
10694182022	**MEWI-GW-PZ9-0-240523**	Water	05/23/24 15:25	05/23/24 18:00
10694182023	**MEWI-SW-CREEK01-0-240523**	Water	05/23/24 14:10	05/23/24 18:00
10694182024	**MEWI-SW-CREEK03-DB-240523**	Water	05/23/24 15:05	05/23/24 18:00
10694182025	**MEWI-SW-CREEK02-0-240523**	Water	05/23/24 14:25	05/23/24 18:00
10694182026	**MEWI-SW-CREEK03-0-240523**	Water	05/23/24 15:00	05/23/24 18:00
10694182027	**MEWI-SW-CREEK04-0-240523**	Water	05/23/24 14:45	05/23/24 18:00
10694182028	**MEWI-GW-PZ0-0-240523**	Water	05/23/24 09:25	05/23/24 18:00
10694182029	**MEWI-GW-PZ10-0-240523**	Water	05/23/24 14:30	05/23/24 18:00
10694182030	**MEWI-W-FB1-FB-240523**	Water	05/23/24 09:25	05/23/24 18:00
10694182031	**MEWI-W-EB1-EB-240523**	Water	05/23/24 09:20	05/23/24 18:00
10694182032	**MEWI-W-TB1-TB-240523**	Water	05/23/24 00:00	05/23/24 18:00

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SAMPLE ANALYTE COUNT

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10694182001	**MEWI-GW-MW3-0-240522**	ENV-SOP-MIN4-0178	MJL	58	PASI-M
10694182002	**MEWI-GW-MW3-DB-240522**	ENV-SOP-MIN4-0178	MJL	58	PASI-M
10694182003	**MEWI-GW-MW5-0-240523**	ENV-SOP-MIN4-0178	MJL	58	PASI-M
10694182004	**MEWI-GW-MW8-0-240523**	ENV-SOP-MIN4-0178	MJL	58	PASI-M
10694182005	**MEWI-GW-MW9-0-240522**	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10694182006	**MEWI-GW-MW10-0-240523**	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10694182007	**MEWI-GW-MW11-0-240523**	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10694182008	**MEWI-GW-MW12-0-240522**	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10694182009	**MEWI-GW-MW4D-0-240522**	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10694182010	**MEWI-GW-MW5D-0-240523**	ENV-SOP-MIN4-0178	MJL	58	PASI-M
10694182011	**MEWI-GW-MW9D-0-240522**	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10694182012	**MEWI-GW-MW12D-0-240522**	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10694182013	**MEWI-GW-PZ1-0-240523**	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10694182014	**MEWI-GW-PZ2-0-240523**	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10694182015	**MEWI-GW-PZ3-0-240523**	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10694182016	**MEWI-GW-PZ3-DB-240523**	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10694182017	**MEWI-GW-PZ4-0-240523**	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10694182018	**MEWI-GW-PZ5-0-240523**	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10694182019	**MEWI-GW-PZ6-0-240523**	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10694182020	**MEWI-GW-PZ7-0-240523**	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10694182021	**MEWI-GW-PZ8-0-240523**	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10694182022	**MEWI-GW-PZ9-0-240523**	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10694182023	**MEWI-SW-CREEK01-0-240523**	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10694182024	**MEWI-SW-CREEK03-DB-240523**	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10694182025	**MEWI-SW-CREEK02-0-240523**	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10694182026	**MEWI-SW-CREEK03-0-240523**	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10694182027	**MEWI-SW-CREEK04-0-240523**	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10694182028	**MEWI-GW-PZ0-0-240523**	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10694182029	**MEWI-GW-PZ10-0-240523**	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10694182030	**MEWI-W-FB1-FB-240523**	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10694182031	**MEWI-W-EB1-EB-240523**	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10694182032	**MEWI-W-TB1-TB-240523**	ENV-SOP-MIN4-0178	NBH	58	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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SUMMARY OF DETECTION

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10694182001	**MEWI-GW-MW3-0-240522**					
ENV-SOP-MIN4-0178	PFBS	2.5	ng/L	1.7	05/31/24 09:57	
ENV-SOP-MIN4-0178	PFHxA	2.2	ng/L	1.9	05/31/24 09:57	
ENV-SOP-MIN4-0178	PFBA	3.9	ng/L	1.9	05/31/24 09:57	
ENV-SOP-MIN4-0178	PFHpS	4.5	ng/L	1.8	05/31/24 09:57	
ENV-SOP-MIN4-0178	PFPeS	2.4	ng/L	1.8	05/31/24 09:57	
ENV-SOP-MIN4-0178	PFHxS	66.6	ng/L	1.7	05/31/24 09:57	
ENV-SOP-MIN4-0178	PFOS	134	ng/L	1.8	05/31/24 09:57	
ENV-SOP-MIN4-0178	PFOA	11.5	ng/L	1.9	05/31/24 09:57	
10694182002	**MEWI-GW-MW3-DB-240522**					
ENV-SOP-MIN4-0178	PFBS	2.6	ng/L	1.7	05/31/24 10:04	
ENV-SOP-MIN4-0178	PFHxA	2.1	ng/L	2.0	05/31/24 10:04	
ENV-SOP-MIN4-0178	PFBA	3.9	ng/L	2.0	05/31/24 10:04	
ENV-SOP-MIN4-0178	PFHpS	4.2	ng/L	1.9	05/31/24 10:04	
ENV-SOP-MIN4-0178	PFPeS	2.3	ng/L	1.9	05/31/24 10:04	
ENV-SOP-MIN4-0178	PFHxS	66.8	ng/L	1.8	05/31/24 10:04	
ENV-SOP-MIN4-0178	PFOS	132	ng/L	1.8	05/31/24 10:04	
ENV-SOP-MIN4-0178	PFOA	10.8	ng/L	2.0	05/31/24 10:04	
10694182003	**MEWI-GW-MW5-0-240523**					
ENV-SOP-MIN4-0178	6:2 FTS	2.2	ng/L	1.9	05/31/24 10:11	
ENV-SOP-MIN4-0178	PFBS	3.4	ng/L	1.7	05/31/24 10:11	
ENV-SOP-MIN4-0178	PFHxA	2.8	ng/L	2.0	05/31/24 10:11	
ENV-SOP-MIN4-0178	PFBA	8.9	ng/L	2.0	05/31/24 10:11	
ENV-SOP-MIN4-0178	PFPeS	2.3	ng/L	1.8	05/31/24 10:11	
ENV-SOP-MIN4-0178	PFHxS	35.8	ng/L	1.8	05/31/24 10:11	
ENV-SOP-MIN4-0178	PFOS	37.3	ng/L	1.8	05/31/24 10:11	
ENV-SOP-MIN4-0178	PFOA	3.8	ng/L	2.0	05/31/24 10:11	
10694182004	**MEWI-GW-MW8-0-240523**					
ENV-SOP-MIN4-0178	6:2 FTS	7.2	ng/L	1.9	05/31/24 10:18	
ENV-SOP-MIN4-0178	PFBS	2.4	ng/L	1.8	05/31/24 10:18	
ENV-SOP-MIN4-0178	PFBA	8.5	ng/L	2.0	05/31/24 10:18	
ENV-SOP-MIN4-0178	PFHxS	15.9	ng/L	1.8	05/31/24 10:18	
10694182005	**MEWI-GW-MW9-0-240522**					
ENV-SOP-MIN4-0178	PFBA	5.4	ng/L	2.0	06/13/24 16:11	
ENV-SOP-MIN4-0178	PFHxS	7.4	ng/L	1.8	06/13/24 16:11	
10694182006	**MEWI-GW-MW10-0-240523**					
ENV-SOP-MIN4-0178	PFBS	2.2	ng/L	1.8	06/13/24 16:18	
ENV-SOP-MIN4-0178	PFBA	31.1	ng/L	2.1	06/13/24 16:18	
ENV-SOP-MIN4-0178	PFPeS	2.3	ng/L	1.9	06/13/24 16:18	
ENV-SOP-MIN4-0178	PFHxS	12.6	ng/L	1.9	06/13/24 16:18	
10694182007	**MEWI-GW-MW11-0-240523**					
ENV-SOP-MIN4-0178	PFBA	7.0	ng/L	2.0	06/13/24 16:50	
10694182008	**MEWI-GW-MW12-0-240522**					
ENV-SOP-MIN4-0178	PFBA	2.7	ng/L	2.0	06/13/24 16:58	

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SUMMARY OF DETECTION

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10694182009	**MEWI-GW-MW4D-0-240522**					
ENV-SOP-MIN4-0178	PFBA	10.6	ng/L	2.1	06/13/24 17:05	
ENV-SOP-MIN4-0178	PFHxS	3.7	ng/L	1.9	06/13/24 17:05	
10694182011	**MEWI-GW-MW9D-0-240522**					
ENV-SOP-MIN4-0178	PFBS	3.3	ng/L	1.8	06/13/24 17:12	
ENV-SOP-MIN4-0178	PFBA	7.2	ng/L	2.1	06/13/24 17:12	
ENV-SOP-MIN4-0178	PFHxS	5.4	ng/L	1.9	06/13/24 17:12	
10694182012	**MEWI-GW-MW12D-0-240522**					
ENV-SOP-MIN4-0178	PFBA	4.7	ng/L	1.9	06/13/24 17:19	
10694182013	**MEWI-GW-PZ1-0-240523**					
ENV-SOP-MIN4-0178	6:2 FTS	27.4	ng/L	19.1	06/13/24 17:27	
ENV-SOP-MIN4-0178	PFBS	45.7	ng/L	17.8	06/13/24 17:27	
ENV-SOP-MIN4-0178	PFHxA	139	ng/L	20.1	06/13/24 17:27	
ENV-SOP-MIN4-0178	PFBA	54.7	ng/L	20.1	06/13/24 17:27	
ENV-SOP-MIN4-0178	PFPeA	27.8	ng/L	20.1	06/13/24 17:27	
ENV-SOP-MIN4-0178	PFPeS	150	ng/L	18.9	06/13/24 17:27	
ENV-SOP-MIN4-0178	PFHpA	27.7	ng/L	20.1	06/13/24 17:27	
ENV-SOP-MIN4-0178	PFHxS	4040	ng/L	91.5	06/14/24 13:05	
ENV-SOP-MIN4-0178	PFOA	52.6	ng/L	20.1	06/13/24 17:27	
10694182014	**MEWI-GW-PZ2-0-240523**					
ENV-SOP-MIN4-0178	PFBS	31.9	ng/L	18.0	06/13/24 17:34	
ENV-SOP-MIN4-0178	PFHxA	132	ng/L	20.3	06/13/24 17:34	
ENV-SOP-MIN4-0178	PFBA	56.5	ng/L	20.3	06/13/24 17:34	
ENV-SOP-MIN4-0178	PFHpS	60.9	ng/L	19.3	06/13/24 17:34	
ENV-SOP-MIN4-0178	PFPeA	40.1	ng/L	20.3	06/13/24 17:34	
ENV-SOP-MIN4-0178	PFPeS	112	ng/L	19.1	06/13/24 17:34	
ENV-SOP-MIN4-0178	PFHpA	27.7	ng/L	20.3	06/13/24 17:34	
ENV-SOP-MIN4-0178	PFHxS	1700	ng/L	18.5	06/13/24 17:34	
ENV-SOP-MIN4-0178	PFOS	673	ng/L	18.8	06/13/24 17:34	
ENV-SOP-MIN4-0178	PFOA	166	ng/L	20.3	06/13/24 17:34	
10694182015	**MEWI-GW-PZ3-0-240523**					
ENV-SOP-MIN4-0178	PFBS	111	ng/L	17.8	06/13/24 17:48	
ENV-SOP-MIN4-0178	PFHxA	225	ng/L	20.1	06/13/24 17:48	
ENV-SOP-MIN4-0178	PFBA	62.9	ng/L	20.1	06/13/24 17:48	
ENV-SOP-MIN4-0178	PFHpS	50.0	ng/L	19.1	06/13/24 17:48	
ENV-SOP-MIN4-0178	PFPeA	52.7	ng/L	20.1	06/13/24 17:48	
ENV-SOP-MIN4-0178	PFPeS	275	ng/L	18.9	06/13/24 17:48	
ENV-SOP-MIN4-0178	PFHpA	43.0	ng/L	20.1	06/13/24 17:48	
ENV-SOP-MIN4-0178	PFHxS	1080	ng/L	18.3	06/13/24 17:48	
ENV-SOP-MIN4-0178	PFOS	1610	ng/L	18.6	06/13/24 17:48	
ENV-SOP-MIN4-0178	PFOA	89.4	ng/L	20.1	06/13/24 17:48	
10694182016	**MEWI-GW-PZ3-DB-240523**					
ENV-SOP-MIN4-0178	PFBS	121	ng/L	17.3	06/13/24 17:55	
ENV-SOP-MIN4-0178	PFHxA	290	ng/L	19.6	06/13/24 17:55	
ENV-SOP-MIN4-0178	PFBA	131	ng/L	19.6	06/13/24 17:55	

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SUMMARY OF DETECTION

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10694182016	**MEWI-GW-PZ3-DB-240523**					
ENV-SOP-MIN4-0178	PFHpS	70.2	ng/L	18.6	06/13/24 17:55	
ENV-SOP-MIN4-0178	PFPeA	76.8	ng/L	19.6	06/13/24 17:55	
ENV-SOP-MIN4-0178	PFPeS	264	ng/L	18.4	06/13/24 17:55	
ENV-SOP-MIN4-0178	PFHpA	55.5	ng/L	19.6	06/13/24 17:55	
ENV-SOP-MIN4-0178	PFHxS	1220	ng/L	17.8	06/13/24 17:55	
ENV-SOP-MIN4-0178	PFOS	1580	ng/L	18.1	06/13/24 17:55	
ENV-SOP-MIN4-0178	PFOA	184	ng/L	19.6	06/13/24 17:55	
10694182017	**MEWI-GW-PZ4-0-240523**					
ENV-SOP-MIN4-0178	6:2 FTS	22.7	ng/L	18.6	06/13/24 18:03	
ENV-SOP-MIN4-0178	PFHxA	34.0	ng/L	19.6	06/13/24 18:03	
ENV-SOP-MIN4-0178	PFBA	55.9	ng/L	19.6	06/13/24 18:03	
ENV-SOP-MIN4-0178	PFHpS	119	ng/L	18.6	06/13/24 18:03	
ENV-SOP-MIN4-0178	PFPeS	27.1	ng/L	18.4	06/13/24 18:03	
ENV-SOP-MIN4-0178	PFHxS	511	ng/L	17.8	06/13/24 18:03	
ENV-SOP-MIN4-0178	PFOS	261	ng/L	18.1	06/13/24 18:03	
ENV-SOP-MIN4-0178	PFOA	61.9	ng/L	19.6	06/13/24 18:03	
10694182018	**MEWI-GW-PZ5-0-240523**					
ENV-SOP-MIN4-0178	PFBA	116	ng/L	34.1	06/13/24 18:10	
ENV-SOP-MIN4-0178	PFHxS	54.6	ng/L	31.0	06/13/24 18:10	
ENV-SOP-MIN4-0178	PFOS	34.9	ng/L	31.5	06/13/24 18:10	
10694182019	**MEWI-GW-PZ6-0-240523**					
ENV-SOP-MIN4-0178	6:2 FTS	37.7	ng/L	34.5	06/13/24 18:17	
ENV-SOP-MIN4-0178	PFBA	99.6	ng/L	36.3	06/13/24 18:17	
ENV-SOP-MIN4-0178	PFHxS	50.3	ng/L	33.0	06/13/24 18:17	
10694182020	**MEWI-GW-PZ7-0-240523**					
ENV-SOP-MIN4-0178	PFBA	43.8	ng/L	34.7	06/13/24 18:24	
10694182022	**MEWI-GW-PZ9-0-240523**					
ENV-SOP-MIN4-0178	6:2 FTS	35.7	ng/L	20.8	06/13/24 18:39	
ENV-SOP-MIN4-0178	PFBA	41.1	ng/L	21.8	06/13/24 18:39	
10694182023	**MEWI-SW-CREEK01-0-240523**					
ENV-SOP-MIN4-0178	PFBS	4.4	ng/L	1.7	06/13/24 18:46	
ENV-SOP-MIN4-0178	PFHxA	5.1	ng/L	1.9	06/13/24 18:46	
ENV-SOP-MIN4-0178	PFBA	8.4	ng/L	1.9	06/13/24 18:46	
ENV-SOP-MIN4-0178	PFPeS	6.6	ng/L	1.8	06/13/24 18:46	
ENV-SOP-MIN4-0178	PFHxS	86.3	ng/L	1.8	06/13/24 18:46	
ENV-SOP-MIN4-0178	PFOS	34.8	ng/L	1.8	06/13/24 18:46	
ENV-SOP-MIN4-0178	PFOA	6.5	ng/L	1.9	06/13/24 18:46	
10694182024	**MEWI-SW-CREEK03-DB-240523**					
ENV-SOP-MIN4-0178	PFBA	13.1	ng/L	4.0	06/13/24 18:53	
ENV-SOP-MIN4-0178	PFHxS	37.9	ng/L	3.6	06/13/24 18:53	
ENV-SOP-MIN4-0178	PFOS	39.7	ng/L	3.7	06/13/24 18:53	

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SUMMARY OF DETECTION

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10694182025	**MEWI-SW-CREEK02-0-240523**					
ENV-SOP-MIN4-0178	PFBA	6.9	ng/L	2.1	06/13/24 23:29	
ENV-SOP-MIN4-0178	PFHxS	25.1	ng/L	1.9	06/13/24 23:29	
ENV-SOP-MIN4-0178	PFOS	12.8	ng/L	1.9	06/13/24 23:29	
ENV-SOP-MIN4-0178	PFOA	2.4	ng/L	2.1	06/13/24 23:29	
10694182026	**MEWI-SW-CREEK03-0-240523**					
ENV-SOP-MIN4-0178	PFBA	12.0	ng/L	10.4	06/13/24 23:36	
ENV-SOP-MIN4-0178	PFHxS	38.1	ng/L	9.4	06/13/24 23:36	
ENV-SOP-MIN4-0178	PFOS	37.1	ng/L	9.6	06/13/24 23:36	
10694182027	**MEWI-SW-CREEK04-0-240523**					
ENV-SOP-MIN4-0178	PFBS	2.3	ng/L	1.8	06/13/24 23:43	
ENV-SOP-MIN4-0178	PFBA	9.0	ng/L	2.0	06/13/24 23:43	
ENV-SOP-MIN4-0178	PFPeS	2.0	ng/L	1.9	06/13/24 23:43	
ENV-SOP-MIN4-0178	PFHxS	30.0	ng/L	1.8	06/13/24 23:43	
ENV-SOP-MIN4-0178	PFOS	9.2	ng/L	1.9	06/13/24 23:43	
ENV-SOP-MIN4-0178	PFOA	2.5	ng/L	2.0	06/13/24 23:43	
10694182028	**MEWI-GW-PZ0-0-240523**					
ENV-SOP-MIN4-0178	PFBA	10.2	ng/L	9.9	06/13/24 23:51	
ENV-SOP-MIN4-0178	PFHxS	15.2	ng/L	9.0	06/13/24 23:51	
10694182029	**MEWI-GW-PZ10-0-240523**					
ENV-SOP-MIN4-0178	PFBS	11.1	ng/L	8.6	06/13/24 23:58	
ENV-SOP-MIN4-0178	PFHxA	20.1	ng/L	9.7	06/13/24 23:58	
ENV-SOP-MIN4-0178	PFBA	32.8	ng/L	9.7	06/13/24 23:58	
ENV-SOP-MIN4-0178	PFPeS	18.6	ng/L	9.2	06/13/24 23:58	
ENV-SOP-MIN4-0178	PFHxS	361	ng/L	8.9	06/13/24 23:58	
ENV-SOP-MIN4-0178	PFOS	13.7	ng/L	9.0	06/13/24 23:58	
ENV-SOP-MIN4-0178	PFOA	33.0	ng/L	9.7	06/13/24 23:58	

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PROJECT NARRATIVE

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Date: August 06, 2024

The quality system for Pace Analytical Services, LLC in Minneapolis, MN (Pace-MN) has been audited and was found to be in conformance with ISO/IEC 17025:2017 by an independent assessment (A2LA Certificate # 2926). The PFAS test results in non-drinking water for this project are not covered by this accreditation.

Pace-MN maintains accreditation with the state of Wisconsin for their isotope dilution analysis as defined in ENV-SOP-MIN4-0178 under certificate number999407970. All of the test results for this project are covered by the Wisconsin accreditation.

MEWI-GW-MW5D-0-240523 (Lab ID: 10694182010)

- RX at 25 mls

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PROJECT NARRATIVE

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Method: **ENV-SOP-MIN4-0178**
Description: WI ID NPW
Client: 3M Environmental
Date: August 06, 2024

General Information:
32 samples were analyzed for ENV-SOP-MIN4-0178 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with ENV-SOP-MIN4-0178 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: 947068

S0: Surrogate recovery outside laboratory control limits.

- LCSD (Lab ID: 4955033)
  - d3-NMeFOSA (S)
  - d5-NEtFOSA (S)
- MEWI-GW-MW3-0-240522 (Lab ID: 10694182001)
  - d3-NMeFOSA (S)
  - d5-NEtFOSA (S)
- MEWI-GW-MW3-DB-240522 (Lab ID: 10694182002)
  - d3-NMeFOSA (S)
  - d5-NEtFOSA (S)
- MEWI-GW-MW8-0-240523 (Lab ID: 10694182004)
  - d3-NMeFOSA (S)
  - d5-NEtFOSA (S)

QC Batch: 950057

S0: Surrogate recovery outside laboratory control limits.

- MEWI-GW-MW4D-0-240522 (Lab ID: 10694182009)
  - d3-NMeFOSA (S)
  - d5-NEtFOSA (S)
- MEWI-GW-PZ2-0-240523 (Lab ID: 10694182014)
  - d3-NMeFOSA (S)

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PROJECT NARRATIVE

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Method: **ENV-SOP-MIN4-0178**
Description: WI ID NPW
Client: 3M Environmental
Date: August 06, 2024

QC Batch: 950057

S0: Surrogate recovery outside laboratory control limits.
- d5-NEtFOSA (S)
- MEWI-GW-PZ5-0-240523 (Lab ID: 10694182018)
  - d3-NMeFOSA (S)
  - d5-NEtFOSA (S)
- MEWI-GW-PZ7-0-240523 (Lab ID: 10694182020)
  - d3-NMeFOSA (S)
  - d5-NEtFOSA (S)
- MEWI-GW-PZ8-0-240523 (Lab ID: 10694182021)
  - d3-NMeFOSA (S)
  - d5-NEtFOSA (S)
- MEWI-SW-CREEK01-0-240523 (Lab ID: 10694182023)
  - d5-NEtFOSA (S)

QC Batch: 950058

S0: Surrogate recovery outside laboratory control limits.
- LCSD (Lab ID: 4968878)
  - d3-NMeFOSA (S)
  - d5-NEtFOSA (S)
- MEWI-GW-PZ0-0-240523 (Lab ID: 10694182028)
  - d5-NEtFOSA (S)
- MEWI-GW-PZ10-0-240523 (Lab ID: 10694182029)
  - 13C2PFHxDA (S)
  - d3-NMeFOSA (S)
  - d5-NEtFOSA (S)
  - d7-NMeFOSE (S)
  - d9-NEtFOSE (S)
- MEWI-SW-CREEK02-0-240523 (Lab ID: 10694182025)
  - d3-NMeFOSA (S)
  - d5-NEtFOSA (S)
- MEWI-SW-CREEK03-0-240523 (Lab ID: 10694182026)
  - d3-NMeFOSA (S)
  - d5-NEtFOSA (S)
- MEWI-SW-CREEK04-0-240523 (Lab ID: 10694182027)
  - d3-NMeFOSA (S)
  - d5-NEtFOSA (S)
  - d7-NMeFOSE (S)
  - d9-NEtFOSE (S)

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.
- MEWI-W-EB1-EB-240523 (Lab ID: 10694182031)
  - 13C28:2FTS (S)
- MEWI-W-FB1-FB-240523 (Lab ID: 10694182030)
  - 13C28:2FTS (S)

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PROJECT NARRATIVE

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Method: **ENV-SOP-MIN4-0178**
Description: WI ID NPW
Client: 3M Environmental
Date: August 06, 2024

QC Batch: 951340

S0: Surrogate recovery outside laboratory control limits.

- BLANK (Lab ID: 4975499)
  - 13C2PFHxDA (S)
  - d3-NMeFOSA (S)
  - d5-NEtFOSA (S)
  - d9-NEtFOSE (S)
- LCS (Lab ID: 4975500)
  - d3-NMeFOSA (S)
  - d5-NEtFOSA (S)
- LCSD (Lab ID: 4975501)
  - 13C24:2FTS (S)
  - 13C26:2FTS (S)
  - 13C28:2FTS (S)
  - d3-NMeFOSA (S)
  - d5-NEtFOSA (S)
  - d7-NMeFOSE (S)
  - d9-NEtFOSE (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 951340

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

- LCSD (Lab ID: 4975501)
  - NEtFOSA

R1: RPD value was outside control limits.

- LCSD (Lab ID: 4975501)
  - NMeFOSA

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 947068

1M: All narrated results associated with this sample confirmed through secondary analysis.

- MEWI-GW-MW3-0-240522 (Lab ID: 10694182001)
  - 13C4-PFBA (S)

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PROJECT NARRATIVE

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Method: **ENV-SOP-MIN4-0178**
Description: WI ID NPW
Client: 3M Environmental
Date: August 06, 2024

Analyte Comments:

QC Batch: 947068

1M: All narrated results associated with this sample confirmed through secondary analysis.

- MEWI-GW-MW3-DB-240522 (Lab ID: 10694182002)
  - 13C4-PFBA (S)
- MEWI-GW-MW8-0-240523 (Lab ID: 10694182004)
  - 13C4-PFBA (S)

QC Batch: 950057

1M: All narrated results associated with this sample confirmed through secondary analysis.

- MEWI-GW-MW4D-0-240522 (Lab ID: 10694182009)
  - 13C4-PFBA (S)
- MEWI-GW-PZ2-0-240523 (Lab ID: 10694182014)
  - 13C4-PFBA (S)
- MEWI-GW-PZ5-0-240523 (Lab ID: 10694182018)
  - 13C4-PFBA (S)
- MEWI-GW-PZ7-0-240523 (Lab ID: 10694182020)
  - 13C4-PFBA (S)
- MEWI-GW-PZ8-0-240523 (Lab ID: 10694182021)
  - 13C4-PFBA (S)
- MEWI-SW-CREEK01-0-240523 (Lab ID: 10694182023)
  - 13C4-PFBA (S)

QC Batch: 950058

1M: All narrated results associated with this sample confirmed through secondary analysis.

- MEWI-GW-PZ0-0-240523 (Lab ID: 10694182028)
  - 13C4-PFBA (S)
- MEWI-GW-PZ10-0-240523 (Lab ID: 10694182029)
  - 13C4-PFBA (S)
- MEWI-SW-CREEK02-0-240523 (Lab ID: 10694182025)
  - 13C4-PFBA (S)
- MEWI-SW-CREEK03-0-240523 (Lab ID: 10694182026)
  - 13C4-PFBA (S)
- MEWI-SW-CREEK04-0-240523 (Lab ID: 10694182027)
  - 13C4-PFBA (S)
- MEWI-W-EB1-EB-240523 (Lab ID: 10694182031)
  - 13C4-PFBA (S)
- MEWI-W-FB1-FB-240523 (Lab ID: 10694182030)
  - 13C4-PFBA (S)

QC Batch: 951340

1M: All narrated results associated with this sample confirmed through secondary analysis.

- MEWI-GW-MW5D-0-240523 (Lab ID: 10694182010)
  - 13C4-PFBA (S)

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-MW3-0-240522 **Lab ID: 10694182001** Collected: 05/22/24 14:50 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 263.3904 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	1.8	1	05/29/24 14:13	05/31/24 09:57	763051-92-9	
4:2 FTS	ND	ng/L	1.8	1	05/29/24 14:13	05/31/24 09:57	757124-72-4	
6:2 FTS	ND	ng/L	1.8	1	05/29/24 14:13	05/31/24 09:57	27619-97-2	
8:2 FTS	ND	ng/L	1.8	1	05/29/24 14:13	05/31/24 09:57	39108-34-4	
9Cl-PF3ONS	ND	ng/L	1.8	1	05/29/24 14:13	05/31/24 09:57	756426-58-1	
ADONA	ND	ng/L	1.8	1	05/29/24 14:13	05/31/24 09:57	919005-14-4	
HFPO-DA	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 09:57	13252-13-6	
NEtFOSAA	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 09:57	2991-50-6	
NEtFOSA	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 09:57	4151-50-2	
NEtFOSE	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 09:57	1691-99-2	
NMeFOSAA	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 09:57	2355-31-9	
NMeFOSA	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 09:57	31506-32-8	
NMeFOSE	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 09:57	24448-09-7	
PFBS	**2.5**	ng/L	1.7	1	05/29/24 14:13	05/31/24 09:57	375-73-5	
PFDA	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 09:57	335-76-2	
PFHxA	**2.2**	ng/L	1.9	1	05/29/24 14:13	05/31/24 09:57	307-24-4	
PFBA	**3.9**	ng/L	1.9	1	05/29/24 14:13	05/31/24 09:57	375-22-4	
PFDS	ND	ng/L	1.8	1	05/29/24 14:13	05/31/24 09:57	335-77-3	
PFDoS	ND	ng/L	1.8	1	05/29/24 14:13	05/31/24 09:57	79780-39-5	
PFHpS	**4.5**	ng/L	1.8	1	05/29/24 14:13	05/31/24 09:57	375-92-8	
PFNS	ND	ng/L	1.8	1	05/29/24 14:13	05/31/24 09:57	68259-12-1	
PFOSA	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 09:57	754-91-6	
PFPeA	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 09:57	2706-90-3	
PFPeS	**2.4**	ng/L	1.8	1	05/29/24 14:13	05/31/24 09:57	2706-91-4	
PFDoA	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 09:57	307-55-1	
PFHpA	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 09:57	375-85-9	
PFHxS	**66.6**	ng/L	1.7	1	05/29/24 14:13	05/31/24 09:57	355-46-4	
PFNA	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 09:57	375-95-1	
PFOS	**134**	ng/L	1.8	1	05/29/24 14:13	05/31/24 09:57	1763-23-1	
PFOA	**11.5**	ng/L	1.9	1	05/29/24 14:13	05/31/24 09:57	335-67-1	
PFTeDA	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 09:57	376-06-7	
PFTrDA	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 09:57	72629-94-8	
PFUnA	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 09:57	2058-94-8	
Surrogates								
13C4-PFBA (S)	72	%.	25-150	1	05/29/24 14:13	05/31/24 09:57		1M
13C5-PFPeA (S)	76	%.	25-150	1	05/29/24 14:13	05/31/24 09:57		
13C3-PFBS (S)	85	%.	25-150	1	05/29/24 14:13	05/31/24 09:57		
13C24:2FTS (S)	36	%.	25-150	1	05/29/24 14:13	05/31/24 09:57		
13C3HFPO-DA (S)	86	%.	25-150	1	05/29/24 14:13	05/31/24 09:57		
13C4-PFHpA (S)	87	%.	25-150	1	05/29/24 14:13	05/31/24 09:57		
13C3-PFHxS (S)	89	%.	25-150	1	05/29/24 14:13	05/31/24 09:57		
13C26:2FTS (S)	41	%.	25-150	1	05/29/24 14:13	05/31/24 09:57		
13C8-PFOA (S)	86	%.	25-150	1	05/29/24 14:13	05/31/24 09:57		
13C8-PFOS (S)	84	%.	25-150	1	05/29/24 14:13	05/31/24 09:57		
13C9-PFNA (S)	86	%.	25-150	1	05/29/24 14:13	05/31/24 09:57		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-MW3-0-240522 **Lab ID: 10694182001** Collected: 05/22/24 14:50 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 263.3904 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
Surrogates								
13C6-PFDA (S)	98	%.	25-150	1	05/29/24 14:13	05/31/24 09:57		
13C28:2FTS (S)	81	%.	25-150	1	05/29/24 14:13	05/31/24 09:57		
d3-MeFOSAA (S)	63	%.	25-150	1	05/29/24 14:13	05/31/24 09:57		
13C7-PFUdA (S)	88	%.	25-150	1	05/29/24 14:13	05/31/24 09:57		
13C8-PFOSA (S)	66	%.	25-150	1	05/29/24 14:13	05/31/24 09:57		
d5-EtFOSAA (S)	73	%.	25-150	1	05/29/24 14:13	05/31/24 09:57		
13C2-PFDoA (S)	88	%.	25-150	1	05/29/24 14:13	05/31/24 09:57		
d3-NMeFOSA (S)	3	%.	10-150	1	05/29/24 14:13	05/31/24 09:57		S0
d7-NMeFOSE (S)	50	%.	10-150	1	05/29/24 14:13	05/31/24 09:57		
13C2-PFTA (S)	88	%.	25-150	1	05/29/24 14:13	05/31/24 09:57		
d9-NEtFOSE (S)	47	%.	10-150	1	05/29/24 14:13	05/31/24 09:57		
d5-NEtFOSA (S)	2	%.	10-150	1	05/29/24 14:13	05/31/24 09:57		S0
13C2PFHxDA (S)	73	%.	25-150	1	05/29/24 14:13	05/31/24 09:57		
13C5-PFHxA (S)	88	%.	25-150	1	05/29/24 14:13	05/31/24 09:57		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-MW3-DB-240522 **Lab ID: 10694182002** Collected: 05/22/24 14:55 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 253.324 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 10:04	763051-92-9	
4:2 FTS	ND	ng/L	1.8	1	05/29/24 14:13	05/31/24 10:04	757124-72-4	
6:2 FTS	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 10:04	27619-97-2	
8:2 FTS	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 10:04	39108-34-4	
9Cl-PF3ONS	ND	ng/L	1.8	1	05/29/24 14:13	05/31/24 10:04	756426-58-1	
ADONA	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 10:04	919005-14-4	
HFPO-DA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:04	13252-13-6	
NEtFOSAA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:04	2991-50-6	
NEtFOSA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:04	4151-50-2	
NEtFOSE	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:04	1691-99-2	
NMeFOSAA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:04	2355-31-9	
NMeFOSA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:04	31506-32-8	
NMeFOSE	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:04	24448-09-7	
PFBS	**2.6**	ng/L	1.7	1	05/29/24 14:13	05/31/24 10:04	375-73-5	
PFDA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:04	335-76-2	
PFHxA	**2.1**	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:04	307-24-4	
PFBA	**3.9**	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:04	375-22-4	
PFDS	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 10:04	335-77-3	
PFDoS	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 10:04	79780-39-5	
PFHpS	**4.2**	ng/L	1.9	1	05/29/24 14:13	05/31/24 10:04	375-92-8	
PFNS	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 10:04	68259-12-1	
PFOSA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:04	754-91-6	
PFPeA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:04	2706-90-3	
PFPeS	**2.3**	ng/L	1.9	1	05/29/24 14:13	05/31/24 10:04	2706-91-4	
PFDoA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:04	307-55-1	
PFHpA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:04	375-85-9	
PFHxS	**66.8**	ng/L	1.8	1	05/29/24 14:13	05/31/24 10:04	355-46-4	
PFNA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:04	375-95-1	
PFOS	**132**	ng/L	1.8	1	05/29/24 14:13	05/31/24 10:04	1763-23-1	
PFOA	**10.8**	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:04	335-67-1	
PFTeDA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:04	376-06-7	
PFTrDA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:04	72629-94-8	
PFUnA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:04	2058-94-8	
Surrogates								
13C4-PFBA (S)	73	%.	25-150	1	05/29/24 14:13	05/31/24 10:04		1M
13C5-PFPeA (S)	77	%.	25-150	1	05/29/24 14:13	05/31/24 10:04		
13C3-PFBS (S)	84	%.	25-150	1	05/29/24 14:13	05/31/24 10:04		
13C24:2FTS (S)	35	%.	25-150	1	05/29/24 14:13	05/31/24 10:04		
13C3HFPO-DA (S)	85	%.	25-150	1	05/29/24 14:13	05/31/24 10:04		
13C4-PFHpA (S)	86	%.	25-150	1	05/29/24 14:13	05/31/24 10:04		
13C3-PFHxS (S)	87	%.	25-150	1	05/29/24 14:13	05/31/24 10:04		
13C26:2FTS (S)	42	%.	25-150	1	05/29/24 14:13	05/31/24 10:04		
13C8-PFOA (S)	86	%.	25-150	1	05/29/24 14:13	05/31/24 10:04		
13C8-PFOS (S)	87	%.	25-150	1	05/29/24 14:13	05/31/24 10:04		
13C9-PFNA (S)	86	%.	25-150	1	05/29/24 14:13	05/31/24 10:04		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-MW3-DB-240522 **Lab ID: 10694182002** Collected: 05/22/24 14:55 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 253.324 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
Surrogates								
13C6-PFDA (S)	93	%.	25-150	1	05/29/24 14:13	05/31/24 10:04		
13C28:2FTS (S)	67	%.	25-150	1	05/29/24 14:13	05/31/24 10:04		
d3-MeFOSAA (S)	67	%.	25-150	1	05/29/24 14:13	05/31/24 10:04		
13C7-PFUdA (S)	89	%.	25-150	1	05/29/24 14:13	05/31/24 10:04		
13C8-PFOSA (S)	72	%.	25-150	1	05/29/24 14:13	05/31/24 10:04		
d5-EtFOSAA (S)	73	%.	25-150	1	05/29/24 14:13	05/31/24 10:04		
13C2-PFDoA (S)	89	%.	25-150	1	05/29/24 14:13	05/31/24 10:04		
d3-NMeFOSA (S)	8	%.	10-150	1	05/29/24 14:13	05/31/24 10:04		S0
d7-NMeFOSE (S)	61	%.	10-150	1	05/29/24 14:13	05/31/24 10:04		
13C2-PFTA (S)	85	%.	25-150	1	05/29/24 14:13	05/31/24 10:04		
d9-NEtFOSE (S)	55	%.	10-150	1	05/29/24 14:13	05/31/24 10:04		
d5-NEtFOSA (S)	6	%.	10-150	1	05/29/24 14:13	05/31/24 10:04		S0
13C2PFHxDA (S)	73	%.	25-150	1	05/29/24 14:13	05/31/24 10:04		
13C5-PFHxA (S)	87	%.	25-150	1	05/29/24 14:13	05/31/24 10:04		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-MW5-0-240523 **Lab ID: 10694182003** Collected: 05/23/24 08:05 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 255.8688 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	1.8	1	05/29/24 14:13	05/31/24 10:11	763051-92-9	
4:2 FTS	ND	ng/L	1.8	1	05/29/24 14:13	05/31/24 10:11	757124-72-4	
6:2 FTS	**2.2**	ng/L	1.9	1	05/29/24 14:13	05/31/24 10:11	27619-97-2	
8:2 FTS	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 10:11	39108-34-4	
9Cl-PF3ONS	ND	ng/L	1.8	1	05/29/24 14:13	05/31/24 10:11	756426-58-1	
ADONA	ND	ng/L	1.8	1	05/29/24 14:13	05/31/24 10:11	919005-14-4	
HFPO-DA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:11	13252-13-6	
NEtFOSAA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:11	2991-50-6	
NEtFOSA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:11	4151-50-2	
NEtFOSE	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:11	1691-99-2	
NMeFOSAA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:11	2355-31-9	
NMeFOSA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:11	31506-32-8	
NMeFOSE	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:11	24448-09-7	
PFBS	**3.4**	ng/L	1.7	1	05/29/24 14:13	05/31/24 10:11	375-73-5	
PFDA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:11	335-76-2	
PFHxA	**2.8**	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:11	307-24-4	
PFBA	**8.9**	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:11	375-22-4	
PFDS	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 10:11	335-77-3	
PFDoS	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 10:11	79780-39-5	
PFHpS	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 10:11	375-92-8	
PFNS	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 10:11	68259-12-1	
PFOSA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:11	754-91-6	
PFPeA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:11	2706-90-3	
PFPeS	**2.3**	ng/L	1.8	1	05/29/24 14:13	05/31/24 10:11	2706-91-4	
PFDoA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:11	307-55-1	
PFHpA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:11	375-85-9	
PFHxS	**35.8**	ng/L	1.8	1	05/29/24 14:13	05/31/24 10:11	355-46-4	
PFNA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:11	375-95-1	
PFOS	**37.3**	ng/L	1.8	1	05/29/24 14:13	05/31/24 10:11	1763-23-1	
PFOA	**3.8**	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:11	335-67-1	
PFTeDA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:11	376-06-7	
PFTrDA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:11	72629-94-8	
PFUnA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:11	2058-94-8	
Surrogates								
13C4-PFBA (S)	72	%.	25-150	1	05/29/24 14:13	05/31/24 10:11		
13C5-PFPeA (S)	72	%.	25-150	1	05/29/24 14:13	05/31/24 10:11		
13C3-PFBS (S)	83	%.	25-150	1	05/29/24 14:13	05/31/24 10:11		
13C24:2FTS (S)	46	%.	25-150	1	05/29/24 14:13	05/31/24 10:11		
13C3HFPO-DA (S)	80	%.	25-150	1	05/29/24 14:13	05/31/24 10:11		
13C4-PFHpA (S)	85	%.	25-150	1	05/29/24 14:13	05/31/24 10:11		
13C3-PFHxS (S)	89	%.	25-150	1	05/29/24 14:13	05/31/24 10:11		
13C26:2FTS (S)	51	%.	25-150	1	05/29/24 14:13	05/31/24 10:11		
13C8-PFOA (S)	89	%.	25-150	1	05/29/24 14:13	05/31/24 10:11		
13C8-PFOS (S)	88	%.	25-150	1	05/29/24 14:13	05/31/24 10:11		
13C9-PFNA (S)	90	%.	25-150	1	05/29/24 14:13	05/31/24 10:11		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-MW5-0-240523 **Lab ID: 10694182003** Collected: 05/23/24 08:05 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 255.8688 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
Surrogates								
13C6-PFDA (S)	95	%.	25-150	1	05/29/24 14:13	05/31/24 10:11		
13C28:2FTS (S)	73	%.	25-150	1	05/29/24 14:13	05/31/24 10:11		
d3-MeFOSAA (S)	65	%.	25-150	1	05/29/24 14:13	05/31/24 10:11		
13C7-PFUdA (S)	94	%.	25-150	1	05/29/24 14:13	05/31/24 10:11		
13C8-PFOSA (S)	69	%.	25-150	1	05/29/24 14:13	05/31/24 10:11		
d5-EtFOSAA (S)	77	%.	25-150	1	05/29/24 14:13	05/31/24 10:11		
13C2-PFDoA (S)	98	%.	25-150	1	05/29/24 14:13	05/31/24 10:11		
d3-NMeFOSA (S)	55	%.	10-150	1	05/29/24 14:13	05/31/24 10:11		
d7-NMeFOSE (S)	79	%.	10-150	1	05/29/24 14:13	05/31/24 10:11		
13C2-PFTA (S)	101	%.	25-150	1	05/29/24 14:13	05/31/24 10:11		
d9-NEtFOSE (S)	67	%.	10-150	1	05/29/24 14:13	05/31/24 10:11		
d5-NEtFOSA (S)	53	%.	10-150	1	05/29/24 14:13	05/31/24 10:11		
13C2PFHxDA (S)	84	%.	25-150	1	05/29/24 14:13	05/31/24 10:11		
13C5-PFHxA (S)	86	%.	25-150	1	05/29/24 14:13	05/31/24 10:11		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-MW8-0-240523 **Lab ID: 10694182004** Collected: 05/23/24 10:00 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 250.9017 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 10:18	763051-92-9	
4:2 FTS	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 10:18	757124-72-4	
6:2 FTS	**7.2**	ng/L	1.9	1	05/29/24 14:13	05/31/24 10:18	27619-97-2	
8:2 FTS	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 10:18	39108-34-4	
9Cl-PF3ONS	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 10:18	756426-58-1	
ADONA	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 10:18	919005-14-4	
HFPO-DA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:18	13252-13-6	
NEtFOSAA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:18	2991-50-6	
NEtFOSA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:18	4151-50-2	
NEtFOSE	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:18	1691-99-2	
NMeFOSAA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:18	2355-31-9	
NMeFOSA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:18	31506-32-8	
NMeFOSE	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:18	24448-09-7	
PFBS	**2.4**	ng/L	1.8	1	05/29/24 14:13	05/31/24 10:18	375-73-5	
PFDA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:18	335-76-2	
PFHxA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:18	307-24-4	
PFBA	**8.5**	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:18	375-22-4	
PFDS	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 10:18	335-77-3	
PFDoS	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 10:18	79780-39-5	
PFHpS	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 10:18	375-92-8	
PFNS	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 10:18	68259-12-1	
PFOSA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:18	754-91-6	
PFPeA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:18	2706-90-3	
PFPeS	ND	ng/L	1.9	1	05/29/24 14:13	05/31/24 10:18	2706-91-4	
PFDoA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:18	307-55-1	
PFHpA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:18	375-85-9	
PFHxS	**15.9**	ng/L	1.8	1	05/29/24 14:13	05/31/24 10:18	355-46-4	
PFNA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:18	375-95-1	
PFOS	ND	ng/L	1.8	1	05/29/24 14:13	05/31/24 10:18	1763-23-1	
PFOA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:18	335-67-1	
PFTeDA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:18	376-06-7	
PFTrDA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:18	72629-94-8	
PFUnA	ND	ng/L	2.0	1	05/29/24 14:13	05/31/24 10:18	2058-94-8	
Surrogates								
13C4-PFBA (S)	72	%.	25-150	1	05/29/24 14:13	05/31/24 10:18		1M
13C5-PFPeA (S)	75	%.	25-150	1	05/29/24 14:13	05/31/24 10:18		
13C3-PFBS (S)	83	%.	25-150	1	05/29/24 14:13	05/31/24 10:18		
13C24:2FTS (S)	51	%.	25-150	1	05/29/24 14:13	05/31/24 10:18		
13C3HFPO-DA (S)	83	%.	25-150	1	05/29/24 14:13	05/31/24 10:18		
13C4-PFHpA (S)	86	%.	25-150	1	05/29/24 14:13	05/31/24 10:18		
13C3-PFHxS (S)	88	%.	25-150	1	05/29/24 14:13	05/31/24 10:18		
13C26:2FTS (S)	50	%.	25-150	1	05/29/24 14:13	05/31/24 10:18		
13C8-PFOA (S)	89	%.	25-150	1	05/29/24 14:13	05/31/24 10:18		
13C8-PFOS (S)	88	%.	25-150	1	05/29/24 14:13	05/31/24 10:18		
13C9-PFNA (S)	90	%.	25-150	1	05/29/24 14:13	05/31/24 10:18		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-MW8-0-240523 **Lab ID: 10694182004** Collected: 05/23/24 10:00 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 250.9017 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
Surrogates								
13C6-PFDA (S)	89	%.	25-150	1	05/29/24 14:13	05/31/24 10:18		
13C28:2FTS (S)	68	%.	25-150	1	05/29/24 14:13	05/31/24 10:18		
d3-MeFOSAA (S)	68	%.	25-150	1	05/29/24 14:13	05/31/24 10:18		
13C7-PFUdA (S)	93	%.	25-150	1	05/29/24 14:13	05/31/24 10:18		
13C8-PFOSA (S)	64	%.	25-150	1	05/29/24 14:13	05/31/24 10:18		
d5-EtFOSAA (S)	82	%.	25-150	1	05/29/24 14:13	05/31/24 10:18		
13C2-PFDoA (S)	96	%.	25-150	1	05/29/24 14:13	05/31/24 10:18		
d3-NMeFOSA (S)	3	%.	10-150	1	05/29/24 14:13	05/31/24 10:18		S0
d7-NMeFOSE (S)	39	%.	10-150	1	05/29/24 14:13	05/31/24 10:18		
13C2-PFTA (S)	87	%.	25-150	1	05/29/24 14:13	05/31/24 10:18		
d9-NEtFOSE (S)	33	%.	10-150	1	05/29/24 14:13	05/31/24 10:18		
d5-NEtFOSA (S)	2	%.	10-150	1	05/29/24 14:13	05/31/24 10:18		S0
13C2PFHxDA (S)	54	%.	25-150	1	05/29/24 14:13	05/31/24 10:18		
13C5-PFHxA (S)	87	%.	25-150	1	05/29/24 14:13	05/31/24 10:18		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-MW9-0-240522 **Lab ID: 10694182005** Collected: 05/22/24 12:45 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 246.81 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:11	763051-92-9	
4:2 FTS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:11	757124-72-4	
6:2 FTS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:11	27619-97-2	
8:2 FTS	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:11	39108-34-4	
9Cl-PF3ONS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:11	756426-58-1	
ADONA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:11	919005-14-4	
HFPO-DA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:11	13252-13-6	
NEtFOSAA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:11	2991-50-6	
NEtFOSA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:11	4151-50-2	
NEtFOSE	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:11	1691-99-2	
NMeFOSAA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:11	2355-31-9	
NMeFOSA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:11	31506-32-8	
NMeFOSE	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:11	24448-09-7	
PFBS	ND	ng/L	1.8	1	06/12/24 06:52	06/13/24 16:11	375-73-5	
PFDA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:11	335-76-2	
PFHxA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:11	307-24-4	
PFBA	**5.4**	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:11	375-22-4	
PFDS	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:11	335-77-3	
PFDoS	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:11	79780-39-5	
PFHpS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:11	375-92-8	
PFNS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:11	68259-12-1	
PFOSA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:11	754-91-6	
PFPeA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:11	2706-90-3	
PFPeS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:11	2706-91-4	
PFDoA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:11	307-55-1	
PFHpA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:11	375-85-9	
PFHxS	**7.4**	ng/L	1.8	1	06/12/24 06:52	06/13/24 16:11	355-46-4	
PFNA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:11	375-95-1	
PFOS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:11	1763-23-1	
PFOA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:11	335-67-1	
PFTeDA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:11	376-06-7	
PFTrDA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:11	72629-94-8	
PFUnA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:11	2058-94-8	
Surrogates								
13C4-PFBA (S)	84	%.	25-150	1	06/12/24 06:52	06/13/24 16:11		
13C5-PFPeA (S)	94	%.	25-150	1	06/12/24 06:52	06/13/24 16:11		
13C3-PFBS (S)	99	%.	25-150	1	06/12/24 06:52	06/13/24 16:11		
13C24:2FTS (S)	55	%.	25-150	1	06/12/24 06:52	06/13/24 16:11		
13C3HFPO-DA (S)	87	%.	25-150	1	06/12/24 06:52	06/13/24 16:11		
13C4-PFHpA (S)	100	%.	25-150	1	06/12/24 06:52	06/13/24 16:11		
13C3-PFHxS (S)	100	%.	25-150	1	06/12/24 06:52	06/13/24 16:11		
13C26:2FTS (S)	56	%.	25-150	1	06/12/24 06:52	06/13/24 16:11		
13C8-PFOA (S)	105	%.	25-150	1	06/12/24 06:52	06/13/24 16:11		
13C8-PFOS (S)	98	%.	25-150	1	06/12/24 06:52	06/13/24 16:11		
13C9-PFNA (S)	107	%.	25-150	1	06/12/24 06:52	06/13/24 16:11		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-MW9-0-240522 **Lab ID: 10694182005** Collected: 05/22/24 12:45 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 246.81 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
Surrogates								
13C6-PFDA (S)	107	%.	25-150	1	06/12/24 06:52	06/13/24 16:11		
13C28:2FTS (S)	84	%.	25-150	1	06/12/24 06:52	06/13/24 16:11		
d3-MeFOSAA (S)	84	%.	25-150	1	06/12/24 06:52	06/13/24 16:11		
13C7-PFUdA (S)	110	%.	25-150	1	06/12/24 06:52	06/13/24 16:11		
13C8-PFOSA (S)	76	%.	25-150	1	06/12/24 06:52	06/13/24 16:11		
d5-EtFOSAA (S)	99	%.	25-150	1	06/12/24 06:52	06/13/24 16:11		
13C2-PFDoA (S)	111	%.	25-150	1	06/12/24 06:52	06/13/24 16:11		
d3-NMeFOSA (S)	27	%.	10-150	1	06/12/24 06:52	06/13/24 16:11		
d7-NMeFOSE (S)	78	%.	10-150	1	06/12/24 06:52	06/13/24 16:11		
13C2-PFTA (S)	113	%.	25-150	1	06/12/24 06:52	06/13/24 16:11		
d9-NEtFOSE (S)	73	%.	10-150	1	06/12/24 06:52	06/13/24 16:11		
d5-NEtFOSA (S)	26	%.	10-150	1	06/12/24 06:52	06/13/24 16:11		
13C2PFHxDA (S)	93	%.	25-150	1	06/12/24 06:52	06/13/24 16:11		
13C5-PFHxA (S)	99	%.	25-150	1	06/12/24 06:52	06/13/24 16:11		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-MW10-0-240523 **Lab ID: 10694182006** Collected: 05/23/24 13:25 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 243.732 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:18	763051-92-9	
4:2 FTS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:18	757124-72-4	
6:2 FTS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:18	27619-97-2	
8:2 FTS	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:18	39108-34-4	
9Cl-PF3ONS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:18	756426-58-1	
ADONA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:18	919005-14-4	
HFPO-DA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 16:18	13252-13-6	
NEtFOSAA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 16:18	2991-50-6	
NEtFOSA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 16:18	4151-50-2	
NEtFOSE	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 16:18	1691-99-2	
NMeFOSAA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 16:18	2355-31-9	
NMeFOSA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 16:18	31506-32-8	
NMeFOSE	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 16:18	24448-09-7	
PFBS	**2.2**	ng/L	1.8	1	06/12/24 06:52	06/13/24 16:18	375-73-5	
PFDA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 16:18	335-76-2	
PFHxA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 16:18	307-24-4	
PFBA	**31.1**	ng/L	2.1	1	06/12/24 06:52	06/13/24 16:18	375-22-4	
PFDS	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:18	335-77-3	
PFDoS	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:18	79780-39-5	
PFHpS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:18	375-92-8	
PFNS	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:18	68259-12-1	
PFOSA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 16:18	754-91-6	
PFPeA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 16:18	2706-90-3	
PFPeS	**2.3**	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:18	2706-91-4	
PFDoA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 16:18	307-55-1	
PFHpA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 16:18	375-85-9	
PFHxS	**12.6**	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:18	355-46-4	
PFNA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 16:18	375-95-1	
PFOS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:18	1763-23-1	
PFOA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 16:18	335-67-1	
PFTeDA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 16:18	376-06-7	
PFTrDA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 16:18	72629-94-8	
PFUnA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 16:18	2058-94-8	
Surrogates								
13C4-PFBA (S)	82	%.	25-150	1	06/12/24 06:52	06/13/24 16:18		
13C5-PFPeA (S)	90	%.	25-150	1	06/12/24 06:52	06/13/24 16:18		
13C3-PFBS (S)	96	%.	25-150	1	06/12/24 06:52	06/13/24 16:18		
13C24:2FTS (S)	64	%.	25-150	1	06/12/24 06:52	06/13/24 16:18		
13C3HFPO-DA (S)	80	%.	25-150	1	06/12/24 06:52	06/13/24 16:18		
13C4-PFHpA (S)	99	%.	25-150	1	06/12/24 06:52	06/13/24 16:18		
13C3-PFHxS (S)	99	%.	25-150	1	06/12/24 06:52	06/13/24 16:18		
13C26:2FTS (S)	59	%.	25-150	1	06/12/24 06:52	06/13/24 16:18		
13C8-PFOA (S)	103	%.	25-150	1	06/12/24 06:52	06/13/24 16:18		
13C8-PFOS (S)	96	%.	25-150	1	06/12/24 06:52	06/13/24 16:18		
13C9-PFNA (S)	106	%.	25-150	1	06/12/24 06:52	06/13/24 16:18		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-MW10-0-240523 **Lab ID: 10694182006** Collected: 05/23/24 13:25 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Initial Volume/Weight: 243.732 mL Final Volume/Weight: 1 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C6-PFDA (S)	108	%.	25-150	1	06/12/24 06:52	06/13/24 16:18		
13C28:2FTS (S)	80	%.	25-150	1	06/12/24 06:52	06/13/24 16:18		
d3-MeFOSAA (S)	80	%.	25-150	1	06/12/24 06:52	06/13/24 16:18		
13C7-PFUdA (S)	108	%.	25-150	1	06/12/24 06:52	06/13/24 16:18		
13C8-PFOSA (S)	79	%.	25-150	1	06/12/24 06:52	06/13/24 16:18		
d5-EtFOSAA (S)	90	%.	25-150	1	06/12/24 06:52	06/13/24 16:18		
13C2-PFDoA (S)	105	%.	25-150	1	06/12/24 06:52	06/13/24 16:18		
d3-NMeFOSA (S)	61	%.	10-150	1	06/12/24 06:52	06/13/24 16:18		
d7-NMeFOSE (S)	83	%.	10-150	1	06/12/24 06:52	06/13/24 16:18		
13C2-PFTA (S)	110	%.	25-150	1	06/12/24 06:52	06/13/24 16:18		
d9-NEtFOSE (S)	74	%.	10-150	1	06/12/24 06:52	06/13/24 16:18		
d5-NEtFOSA (S)	58	%.	10-150	1	06/12/24 06:52	06/13/24 16:18		
13C2PFHxDA (S)	92	%.	25-150	1	06/12/24 06:52	06/13/24 16:18		
13C5-PFHxA (S)	98	%.	25-150	1	06/12/24 06:52	06/13/24 16:18		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-MW11-0-240523 **Lab ID: 10694182007** Collected: 05/23/24 11:20 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 251.114 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:50	763051-92-9	
4:2 FTS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:50	757124-72-4	
6:2 FTS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:50	27619-97-2	
8:2 FTS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:50	39108-34-4	
9Cl-PF3ONS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:50	756426-58-1	
ADONA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:50	919005-14-4	
HFPO-DA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:50	13252-13-6	
NEtFOSAA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:50	2991-50-6	
NEtFOSA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:50	4151-50-2	
NEtFOSE	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:50	1691-99-2	
NMeFOSAA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:50	2355-31-9	
NMeFOSA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:50	31506-32-8	
NMeFOSE	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:50	24448-09-7	
PFBS	ND	ng/L	1.8	1	06/12/24 06:52	06/13/24 16:50	375-73-5	
PFDA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:50	335-76-2	
PFHxA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:50	307-24-4	
PFBA	**7.0**	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:50	375-22-4	
PFDS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:50	335-77-3	
PFDoS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:50	79780-39-5	
PFHpS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:50	375-92-8	
PFNS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:50	68259-12-1	
PFOSA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:50	754-91-6	
PFPeA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:50	2706-90-3	
PFPeS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:50	2706-91-4	
PFDoA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:50	307-55-1	
PFHpA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:50	375-85-9	
PFHxS	ND	ng/L	1.8	1	06/12/24 06:52	06/13/24 16:50	355-46-4	
PFNA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:50	375-95-1	
PFOS	ND	ng/L	1.8	1	06/12/24 06:52	06/13/24 16:50	1763-23-1	
PFOA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:50	335-67-1	
PFTeDA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:50	376-06-7	
PFTrDA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:50	72629-94-8	
PFUnA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:50	2058-94-8	
Surrogates								
13C4-PFBA (S)	80	%.	25-150	1	06/12/24 06:52	06/13/24 16:50		
13C5-PFPeA (S)	90	%.	25-150	1	06/12/24 06:52	06/13/24 16:50		
13C3-PFBS (S)	96	%.	25-150	1	06/12/24 06:52	06/13/24 16:50		
13C24:2FTS (S)	48	%.	25-150	1	06/12/24 06:52	06/13/24 16:50		
13C3HFPO-DA (S)	81	%.	25-150	1	06/12/24 06:52	06/13/24 16:50		
13C4-PFHpA (S)	100	%.	25-150	1	06/12/24 06:52	06/13/24 16:50		
13C3-PFHxS (S)	105	%.	25-150	1	06/12/24 06:52	06/13/24 16:50		
13C26:2FTS (S)	52	%.	25-150	1	06/12/24 06:52	06/13/24 16:50		
13C8-PFOA (S)	102	%.	25-150	1	06/12/24 06:52	06/13/24 16:50		
13C8-PFOS (S)	103	%.	25-150	1	06/12/24 06:52	06/13/24 16:50		
13C9-PFNA (S)	109	%.	25-150	1	06/12/24 06:52	06/13/24 16:50		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-MW11-0-240523 **Lab ID: 10694182007** Collected: 05/23/24 11:20 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 251.114 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
Surrogates								
13C6-PFDA (S)	116	%.	25-150	1	06/12/24 06:52	06/13/24 16:50		
13C28:2FTS (S)	110	%.	25-150	1	06/12/24 06:52	06/13/24 16:50		
d3-MeFOSAA (S)	82	%.	25-150	1	06/12/24 06:52	06/13/24 16:50		
13C7-PFUdA (S)	110	%.	25-150	1	06/12/24 06:52	06/13/24 16:50		
13C8-PFOSA (S)	77	%.	25-150	1	06/12/24 06:52	06/13/24 16:50		
d5-EtFOSAA (S)	90	%.	25-150	1	06/12/24 06:52	06/13/24 16:50		
13C2-PFDoA (S)	111	%.	25-150	1	06/12/24 06:52	06/13/24 16:50		
d3-NMeFOSA (S)	52	%.	10-150	1	06/12/24 06:52	06/13/24 16:50		
d7-NMeFOSE (S)	79	%.	10-150	1	06/12/24 06:52	06/13/24 16:50		
13C2-PFTA (S)	118	%.	25-150	1	06/12/24 06:52	06/13/24 16:50		
d9-NEtFOSE (S)	83	%.	10-150	1	06/12/24 06:52	06/13/24 16:50		
d5-NEtFOSA (S)	49	%.	10-150	1	06/12/24 06:52	06/13/24 16:50		
13C2PFHxDA (S)	90	%.	25-150	1	06/12/24 06:52	06/13/24 16:50		
13C5-PFHxA (S)	100	%.	25-150	1	06/12/24 06:52	06/13/24 16:50		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-MW12-0-240522 **Lab ID: 10694182008** Collected: 05/22/24 10:20 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 249.299 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:58	763051-92-9	
4:2 FTS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:58	757124-72-4	
6:2 FTS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:58	27619-97-2	
8:2 FTS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:58	39108-34-4	
9Cl-PF3ONS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:58	756426-58-1	
ADONA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:58	919005-14-4	
HFPO-DA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:58	13252-13-6	
NEtFOSAA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:58	2991-50-6	
NEtFOSA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:58	4151-50-2	
NEtFOSE	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:58	1691-99-2	
NMeFOSAA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:58	2355-31-9	
NMeFOSA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:58	31506-32-8	
NMeFOSE	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:58	24448-09-7	
PFBS	ND	ng/L	1.8	1	06/12/24 06:52	06/13/24 16:58	375-73-5	
PFDA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:58	335-76-2	
PFHxA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:58	307-24-4	
PFBA	**2.7**	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:58	375-22-4	
PFDS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:58	335-77-3	
PFDoS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:58	79780-39-5	
PFHpS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:58	375-92-8	
PFNS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:58	68259-12-1	
PFOSA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:58	754-91-6	
PFPeA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:58	2706-90-3	
PFPeS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:58	2706-91-4	
PFDoA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:58	307-55-1	
PFHpA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:58	375-85-9	
PFHxS	ND	ng/L	1.8	1	06/12/24 06:52	06/13/24 16:58	355-46-4	
PFNA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:58	375-95-1	
PFOS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 16:58	1763-23-1	
PFOA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:58	335-67-1	
PFTeDA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:58	376-06-7	
PFTrDA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:58	72629-94-8	
PFUnA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 16:58	2058-94-8	
Surrogates								
13C4-PFBA (S)	82	%.	25-150	1	06/12/24 06:52	06/13/24 16:58		
13C5-PFPeA (S)	91	%.	25-150	1	06/12/24 06:52	06/13/24 16:58		
13C3-PFBS (S)	99	%.	25-150	1	06/12/24 06:52	06/13/24 16:58		
13C24:2FTS (S)	47	%.	25-150	1	06/12/24 06:52	06/13/24 16:58		
13C3HFPO-DA (S)	86	%.	25-150	1	06/12/24 06:52	06/13/24 16:58		
13C4-PFHpA (S)	100	%.	25-150	1	06/12/24 06:52	06/13/24 16:58		
13C3-PFHxS (S)	105	%.	25-150	1	06/12/24 06:52	06/13/24 16:58		
13C26:2FTS (S)	54	%.	25-150	1	06/12/24 06:52	06/13/24 16:58		
13C8-PFOA (S)	103	%.	25-150	1	06/12/24 06:52	06/13/24 16:58		
13C8-PFOS (S)	99	%.	25-150	1	06/12/24 06:52	06/13/24 16:58		
13C9-PFNA (S)	107	%.	25-150	1	06/12/24 06:52	06/13/24 16:58		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-MW12-0-240522 **Lab ID: 10694182008** Collected: 05/22/24 10:20 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 249.299 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
Surrogates								
13C6-PFDA (S)	113	%.	25-150	1	06/12/24 06:52	06/13/24 16:58		
13C28:2FTS (S)	84	%.	25-150	1	06/12/24 06:52	06/13/24 16:58		
d3-MeFOSAA (S)	76	%.	25-150	1	06/12/24 06:52	06/13/24 16:58		
13C7-PFUdA (S)	97	%.	25-150	1	06/12/24 06:52	06/13/24 16:58		
13C8-PFOSA (S)	80	%.	25-150	1	06/12/24 06:52	06/13/24 16:58		
d5-EtFOSAA (S)	76	%.	25-150	1	06/12/24 06:52	06/13/24 16:58		
13C2-PFDoA (S)	88	%.	25-150	1	06/12/24 06:52	06/13/24 16:58		
d3-NMeFOSA (S)	47	%.	10-150	1	06/12/24 06:52	06/13/24 16:58		
d7-NMeFOSE (S)	72	%.	10-150	1	06/12/24 06:52	06/13/24 16:58		
13C2-PFTA (S)	91	%.	25-150	1	06/12/24 06:52	06/13/24 16:58		
d9-NEtFOSE (S)	73	%.	10-150	1	06/12/24 06:52	06/13/24 16:58		
d5-NEtFOSA (S)	47	%.	10-150	1	06/12/24 06:52	06/13/24 16:58		
13C2PFHxDA (S)	78	%.	25-150	1	06/12/24 06:52	06/13/24 16:58		
13C5-PFHxA (S)	101	%.	25-150	1	06/12/24 06:52	06/13/24 16:58		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-MW4D-0-240522 **Lab ID: 10694182009** Collected: 05/22/24 16:15 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 237.4643 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 17:05	763051-92-9	
4:2 FTS	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 17:05	757124-72-4	
6:2 FTS	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 17:05	27619-97-2	
8:2 FTS	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 17:05	39108-34-4	
9Cl-PF3ONS	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 17:05	756426-58-1	
ADONA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 17:05	919005-14-4	
HFPO-DA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:05	13252-13-6	
NEtFOSAA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:05	2991-50-6	
NEtFOSA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:05	4151-50-2	
NEtFOSE	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:05	1691-99-2	
NMeFOSAA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:05	2355-31-9	
NMeFOSA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:05	31506-32-8	
NMeFOSE	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:05	24448-09-7	
PFBS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:05	375-73-5	
PFDA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:05	335-76-2	
PFHxA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:05	307-24-4	
PFBA	**10.6**	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:05	375-22-4	
PFDS	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 17:05	335-77-3	
PFDoS	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 17:05	79780-39-5	
PFHpS	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 17:05	375-92-8	
PFNS	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 17:05	68259-12-1	
PFOSA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:05	754-91-6	
PFPeA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:05	2706-90-3	
PFPeS	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 17:05	2706-91-4	
PFDoA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:05	307-55-1	
PFHpA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:05	375-85-9	
PFHxS	**3.7**	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:05	355-46-4	
PFNA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:05	375-95-1	
PFOS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:05	1763-23-1	
PFOA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:05	335-67-1	
PFTeDA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:05	376-06-7	
PFTrDA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:05	72629-94-8	
PFUnA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:05	2058-94-8	
Surrogates								
13C4-PFBA (S)	74	%.	25-150	1	06/12/24 06:52	06/13/24 17:05		1M
13C5-PFPeA (S)	79	%.	25-150	1	06/12/24 06:52	06/13/24 17:05		
13C3-PFBS (S)	85	%.	25-150	1	06/12/24 06:52	06/13/24 17:05		
13C24:2FTS (S)	46	%.	25-150	1	06/12/24 06:52	06/13/24 17:05		
13C3HFPO-DA (S)	73	%.	25-150	1	06/12/24 06:52	06/13/24 17:05		
13C4-PFHpA (S)	90	%.	25-150	1	06/12/24 06:52	06/13/24 17:05		
13C3-PFHxS (S)	90	%.	25-150	1	06/12/24 06:52	06/13/24 17:05		
13C26:2FTS (S)	49	%.	25-150	1	06/12/24 06:52	06/13/24 17:05		
13C8-PFOA (S)	91	%.	25-150	1	06/12/24 06:52	06/13/24 17:05		
13C8-PFOS (S)	86	%.	25-150	1	06/12/24 06:52	06/13/24 17:05		
13C9-PFNA (S)	99	%.	25-150	1	06/12/24 06:52	06/13/24 17:05		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-MW4D-0-240522 **Lab ID: 10694182009** Collected: 05/22/24 16:15 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 237.4643 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
Surrogates								
13C6-PFDA (S)	97	%.	25-150	1	06/12/24 06:52	06/13/24 17:05		
13C28:2FTS (S)	62	%.	25-150	1	06/12/24 06:52	06/13/24 17:05		
d3-MeFOSAA (S)	71	%.	25-150	1	06/12/24 06:52	06/13/24 17:05		
13C7-PFUdA (S)	87	%.	25-150	1	06/12/24 06:52	06/13/24 17:05		
13C8-PFOSA (S)	64	%.	25-150	1	06/12/24 06:52	06/13/24 17:05		
d5-EtFOSAA (S)	69	%.	25-150	1	06/12/24 06:52	06/13/24 17:05		
13C2-PFDoA (S)	85	%.	25-150	1	06/12/24 06:52	06/13/24 17:05		
d3-NMeFOSA (S)	7	%.	10-150	1	06/12/24 06:52	06/13/24 17:05		S0
d7-NMeFOSE (S)	36	%.	10-150	1	06/12/24 06:52	06/13/24 17:05		
13C2-PFTA (S)	82	%.	25-150	1	06/12/24 06:52	06/13/24 17:05		
d9-NEtFOSE (S)	34	%.	10-150	1	06/12/24 06:52	06/13/24 17:05		
d5-NEtFOSA (S)	6	%.	10-150	1	06/12/24 06:52	06/13/24 17:05		S0
13C2PFHxDA (S)	62	%.	25-150	1	06/12/24 06:52	06/13/24 17:05		
13C5-PFHxA (S)	90	%.	25-150	1	06/12/24 06:52	06/13/24 17:05		

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1700 Elm Street
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(612)607-1700

ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-MW5D-0-240523 **Lab ID: 10694182010** Collected: 05/23/24 08:15 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 23.357 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	20.1	1	06/19/24 14:31	06/21/24 17:24	763051-92-9	
4:2 FTS	ND	ng/L	20.0	1	06/19/24 14:31	06/21/24 17:24	757124-72-4	
6:2 FTS	ND	ng/L	20.3	1	06/19/24 14:31	06/21/24 17:24	27619-97-2	
8:2 FTS	ND	ng/L	20.7	1	06/19/24 14:31	06/21/24 17:24	39108-34-4	
9Cl-PF3ONS	ND	ng/L	19.9	1	06/19/24 14:31	06/21/24 17:24	756426-58-1	
ADONA	ND	ng/L	20.2	1	06/19/24 14:31	06/21/24 17:24	919005-14-4	
HFPO-DA	ND	ng/L	21.4	1	06/19/24 14:31	06/21/24 17:24	13252-13-6	
NEtFOSAA	ND	ng/L	21.4	1	06/19/24 14:31	06/21/24 17:24	2991-50-6	
NEtFOSA	ND	ng/L	21.4	1	06/19/24 14:31	06/21/24 17:24	4151-50-2	L2
NEtFOSE	ND	ng/L	21.4	1	06/19/24 14:31	06/21/24 17:24	1691-99-2	
NMeFOSAA	ND	ng/L	21.4	1	06/19/24 14:31	06/21/24 17:24	2355-31-9	
NMeFOSA	ND	ng/L	21.4	1	06/19/24 14:31	06/21/24 17:24	31506-32-8	
NMeFOSE	ND	ng/L	21.4	1	06/19/24 14:31	06/21/24 17:24	24448-09-7	
PFBS	ND	ng/L	18.9	1	06/19/24 14:31	06/21/24 17:24	375-73-5	
PFDA	ND	ng/L	21.4	1	06/19/24 14:31	06/21/24 17:24	335-76-2	
PFHxA	ND	ng/L	21.4	1	06/19/24 14:31	06/21/24 17:24	307-24-4	
PFBA	ND	ng/L	21.4	1	06/19/24 14:31	06/21/24 17:24	375-22-4	
PFDS	ND	ng/L	20.7	1	06/19/24 14:31	06/21/24 17:24	335-77-3	
PFDoS	ND	ng/L	20.8	1	06/19/24 14:31	06/21/24 17:24	79780-39-5	
PFHpS	ND	ng/L	20.3	1	06/19/24 14:31	06/21/24 17:24	375-92-8	
PFNS	ND	ng/L	20.6	1	06/19/24 14:31	06/21/24 17:24	68259-12-1	
PFOSA	ND	ng/L	21.4	1	06/19/24 14:31	06/21/24 17:24	754-91-6	
PFPeA	ND	ng/L	21.4	1	06/19/24 14:31	06/21/24 17:24	2706-90-3	
PFPeS	ND	ng/L	20.1	1	06/19/24 14:31	06/21/24 17:24	2706-91-4	
PFDoA	ND	ng/L	21.4	1	06/19/24 14:31	06/21/24 17:24	307-55-1	
PFHpA	ND	ng/L	21.4	1	06/19/24 14:31	06/21/24 17:24	375-85-9	
PFHxS	ND	ng/L	19.5	1	06/19/24 14:31	06/21/24 17:24	355-46-4	
PFNA	ND	ng/L	21.4	1	06/19/24 14:31	06/21/24 17:24	375-95-1	
PFOS	ND	ng/L	19.8	1	06/19/24 14:31	06/21/24 17:24	1763-23-1	
PFOA	ND	ng/L	21.4	1	06/19/24 14:31	06/21/24 17:24	335-67-1	
PFTeDA	ND	ng/L	21.4	1	06/19/24 14:31	06/21/24 17:24	376-06-7	
PFTrDA	ND	ng/L	21.4	1	06/19/24 14:31	06/21/24 17:24	72629-94-8	
PFUnA	ND	ng/L	21.4	1	06/19/24 14:31	06/21/24 17:24	2058-94-8	
Surrogates								
13C4-PFBA (S)	104	%.	25-150	1	06/19/24 14:31	06/21/24 17:24		1M
13C5-PFPeA (S)	117	%.	25-150	1	06/19/24 14:31	06/21/24 17:24		
13C3-PFBS (S)	111	%.	25-150	1	06/19/24 14:31	06/21/24 17:24		
13C24:2FTS (S)	110	%.	25-150	1	06/19/24 14:31	06/21/24 17:24		
13C3HFPO-DA (S)	100	%.	25-150	1	06/19/24 14:31	06/21/24 17:24		
13C4-PFHpA (S)	120	%.	25-150	1	06/19/24 14:31	06/21/24 17:24		
13C3-PFHxS (S)	105	%.	25-150	1	06/19/24 14:31	06/21/24 17:24		
13C26:2FTS (S)	105	%.	25-150	1	06/19/24 14:31	06/21/24 17:24		
13C8-PFOA (S)	121	%.	25-150	1	06/19/24 14:31	06/21/24 17:24		
13C8-PFOS (S)	103	%.	25-150	1	06/19/24 14:31	06/21/24 17:24		
13C9-PFNA (S)	120	%.	25-150	1	06/19/24 14:31	06/21/24 17:24		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-MW5D-0-240523 **Lab ID: 10694182010** Collected: 05/23/24 08:15 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 23.357 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
Surrogates								
13C6-PFDA (S)	121	%.	25-150	1	06/19/24 14:31	06/21/24 17:24		
13C28:2FTS (S)	110	%.	25-150	1	06/19/24 14:31	06/21/24 17:24		
d3-MeFOSAA (S)	109	%.	25-150	1	06/19/24 14:31	06/21/24 17:24		
13C7-PFUdA (S)	120	%.	25-150	1	06/19/24 14:31	06/21/24 17:24		
13C8-PFOSA (S)	81	%.	25-150	1	06/19/24 14:31	06/21/24 17:24		
d5-EtFOSAA (S)	118	%.	25-150	1	06/19/24 14:31	06/21/24 17:24		
13C2-PFDoA (S)	116	%.	25-150	1	06/19/24 14:31	06/21/24 17:24		
d3-NMeFOSA (S)	11	%.	10-150	1	06/19/24 14:31	06/21/24 17:24		
d7-NMeFOSE (S)	54	%.	10-150	1	06/19/24 14:31	06/21/24 17:24		
13C2-PFTA (S)	96	%.	25-150	1	06/19/24 14:31	06/21/24 17:24		
d9-NEtFOSE (S)	49	%.	10-150	1	06/19/24 14:31	06/21/24 17:24		
d5-NEtFOSA (S)	11	%.	10-150	1	06/19/24 14:31	06/21/24 17:24		
13C2PFHxDA (S)	62	%.	25-150	1	06/19/24 14:31	06/21/24 17:24		
13C5-PFHxA (S)	126	%.	25-150	1	06/19/24 14:31	06/21/24 17:24		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-MW9D-0-240522 **Lab ID: 10694182011** Collected: 05/22/24 12:40 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 241.9833 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:12	763051-92-9	
4:2 FTS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:12	757124-72-4	
6:2 FTS	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 17:12	27619-97-2	
8:2 FTS	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 17:12	39108-34-4	
9Cl-PF3ONS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:12	756426-58-1	
ADONA	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 17:12	919005-14-4	
HFPO-DA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:12	13252-13-6	
NEtFOSAA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:12	2991-50-6	
NEtFOSA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:12	4151-50-2	
NEtFOSE	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:12	1691-99-2	
NMeFOSAA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:12	2355-31-9	
NMeFOSA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:12	31506-32-8	
NMeFOSE	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:12	24448-09-7	
PFBS	**3.3**	ng/L	1.8	1	06/12/24 06:52	06/13/24 17:12	375-73-5	
PFDA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:12	335-76-2	
PFHxA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:12	307-24-4	
PFBA	**7.2**	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:12	375-22-4	
PFDS	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 17:12	335-77-3	
PFDoS	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 17:12	79780-39-5	
PFHpS	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 17:12	375-92-8	
PFNS	ND	ng/L	2.0	1	06/12/24 06:52	06/13/24 17:12	68259-12-1	
PFOSA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:12	754-91-6	
PFPeA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:12	2706-90-3	
PFPeS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:12	2706-91-4	
PFDoA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:12	307-55-1	
PFHpA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:12	375-85-9	
PFHxS	**5.4**	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:12	355-46-4	
PFNA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:12	375-95-1	
PFOS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:12	1763-23-1	
PFOA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:12	335-67-1	
PFTeDA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:12	376-06-7	
PFTrDA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:12	72629-94-8	
PFUnA	ND	ng/L	2.1	1	06/12/24 06:52	06/13/24 17:12	2058-94-8	
Surrogates								
13C4-PFBA (S)	84	%.	25-150	1	06/12/24 06:52	06/13/24 17:12		
13C5-PFPeA (S)	89	%.	25-150	1	06/12/24 06:52	06/13/24 17:12		
13C3-PFBS (S)	94	%.	25-150	1	06/12/24 06:52	06/13/24 17:12		
13C24:2FTS (S)	50	%.	25-150	1	06/12/24 06:52	06/13/24 17:12		
13C3HFPO-DA (S)	86	%.	25-150	1	06/12/24 06:52	06/13/24 17:12		
13C4-PFHpA (S)	100	%.	25-150	1	06/12/24 06:52	06/13/24 17:12		
13C3-PFHxS (S)	98	%.	25-150	1	06/12/24 06:52	06/13/24 17:12		
13C26:2FTS (S)	60	%.	25-150	1	06/12/24 06:52	06/13/24 17:12		
13C8-PFOA (S)	100	%.	25-150	1	06/12/24 06:52	06/13/24 17:12		
13C8-PFOS (S)	99	%.	25-150	1	06/12/24 06:52	06/13/24 17:12		
13C9-PFNA (S)	107	%.	25-150	1	06/12/24 06:52	06/13/24 17:12		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-MW9D-0-240522 **Lab ID: 10694182011** Collected: 05/22/24 12:40 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 241.9833 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
Surrogates								
13C6-PFDA (S)	111	%.	25-150	1	06/12/24 06:52	06/13/24 17:12		
13C28:2FTS (S)	83	%.	25-150	1	06/12/24 06:52	06/13/24 17:12		
d3-MeFOSAA (S)	78	%.	25-150	1	06/12/24 06:52	06/13/24 17:12		
13C7-PFUdA (S)	101	%.	25-150	1	06/12/24 06:52	06/13/24 17:12		
13C8-PFOSA (S)	61	%.	25-150	1	06/12/24 06:52	06/13/24 17:12		
d5-EtFOSAA (S)	78	%.	25-150	1	06/12/24 06:52	06/13/24 17:12		
13C2-PFDoA (S)	98	%.	25-150	1	06/12/24 06:52	06/13/24 17:12		
d3-NMeFOSA (S)	30	%.	10-150	1	06/12/24 06:52	06/13/24 17:12		
d7-NMeFOSE (S)	50	%.	10-150	1	06/12/24 06:52	06/13/24 17:12		
13C2-PFTA (S)	92	%.	25-150	1	06/12/24 06:52	06/13/24 17:12		
d9-NEtFOSE (S)	48	%.	10-150	1	06/12/24 06:52	06/13/24 17:12		
d5-NEtFOSA (S)	30	%.	10-150	1	06/12/24 06:52	06/13/24 17:12		
13C2PFHxDA (S)	78	%.	25-150	1	06/12/24 06:52	06/13/24 17:12		
13C5-PFHxA (S)	98	%.	25-150	1	06/12/24 06:52	06/13/24 17:12		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-MW12D-0-240522 **Lab ID: 10694182012** Collected: 05/22/24 10:30 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 256.694 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	1.8	1	06/12/24 06:52	06/13/24 17:19	763051-92-9	
4:2 FTS	ND	ng/L	1.8	1	06/12/24 06:52	06/13/24 17:19	757124-72-4	
6:2 FTS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:19	27619-97-2	
8:2 FTS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:19	39108-34-4	
9Cl-PF3ONS	ND	ng/L	1.8	1	06/12/24 06:52	06/13/24 17:19	756426-58-1	
ADONA	ND	ng/L	1.8	1	06/12/24 06:52	06/13/24 17:19	919005-14-4	
HFPO-DA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:19	13252-13-6	
NEtFOSAA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:19	2991-50-6	
NEtFOSA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:19	4151-50-2	
NEtFOSE	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:19	1691-99-2	
NMeFOSAA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:19	2355-31-9	
NMeFOSA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:19	31506-32-8	
NMeFOSE	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:19	24448-09-7	
PFBS	ND	ng/L	1.7	1	06/12/24 06:52	06/13/24 17:19	375-73-5	
PFDA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:19	335-76-2	
PFHxA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:19	307-24-4	
PFBA	**4.7**	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:19	375-22-4	
PFDS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:19	335-77-3	
PFDoS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:19	79780-39-5	
PFHpS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:19	375-92-8	
PFNS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:19	68259-12-1	
PFOSA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:19	754-91-6	
PFPeA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:19	2706-90-3	
PFPeS	ND	ng/L	1.8	1	06/12/24 06:52	06/13/24 17:19	2706-91-4	
PFDoA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:19	307-55-1	
PFHpA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:19	375-85-9	
PFHxS	ND	ng/L	1.8	1	06/12/24 06:52	06/13/24 17:19	355-46-4	
PFNA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:19	375-95-1	
PFOS	ND	ng/L	1.8	1	06/12/24 06:52	06/13/24 17:19	1763-23-1	
PFOA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:19	335-67-1	
PFTeDA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:19	376-06-7	
PFTrDA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:19	72629-94-8	
PFUnA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 17:19	2058-94-8	
Surrogates								
13C4-PFBA (S)	86	%.	25-150	1	06/12/24 06:52	06/13/24 17:19		
13C5-PFPeA (S)	96	%.	25-150	1	06/12/24 06:52	06/13/24 17:19		
13C3-PFBS (S)	98	%.	25-150	1	06/12/24 06:52	06/13/24 17:19		
13C24:2FTS (S)	45	%.	25-150	1	06/12/24 06:52	06/13/24 17:19		
13C3HFPO-DA (S)	86	%.	25-150	1	06/12/24 06:52	06/13/24 17:19		
13C4-PFHpA (S)	95	%.	25-150	1	06/12/24 06:52	06/13/24 17:19		
13C3-PFHxS (S)	99	%.	25-150	1	06/12/24 06:52	06/13/24 17:19		
13C26:2FTS (S)	48	%.	25-150	1	06/12/24 06:52	06/13/24 17:19		
13C8-PFOA (S)	102	%.	25-150	1	06/12/24 06:52	06/13/24 17:19		
13C8-PFOS (S)	101	%.	25-150	1	06/12/24 06:52	06/13/24 17:19		

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(612)607-1700

ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-MW12D-0-240522 **Lab ID: 10694182012** Collected: 05/22/24 10:30 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Initial Volume/Weight: 256.694 mL Final Volume/Weight: 1 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C9-PFNA (S)	104	%.	25-150	1	06/12/24 06:52	06/13/24 17:19		
13C6-PFDA (S)	106	%.	25-150	1	06/12/24 06:52	06/13/24 17:19		
13C28:2FTS (S)	83	%.	25-150	1	06/12/24 06:52	06/13/24 17:19		
d3-MeFOSAA (S)	75	%.	25-150	1	06/12/24 06:52	06/13/24 17:19		
13C7-PFUdA (S)	100	%.	25-150	1	06/12/24 06:52	06/13/24 17:19		
13C8-PFOSA (S)	79	%.	25-150	1	06/12/24 06:52	06/13/24 17:19		
d5-EtFOSAA (S)	78	%.	25-150	1	06/12/24 06:52	06/13/24 17:19		
13C2-PFDoA (S)	89	%.	25-150	1	06/12/24 06:52	06/13/24 17:19		
d3-NMeFOSA (S)	51	%.	10-150	1	06/12/24 06:52	06/13/24 17:19		
d7-NMeFOSE (S)	67	%.	10-150	1	06/12/24 06:52	06/13/24 17:19		
13C2-PFTA (S)	82	%.	25-150	1	06/12/24 06:52	06/13/24 17:19		
d9-NEtFOSE (S)	62	%.	10-150	1	06/12/24 06:52	06/13/24 17:19		
d5-NEtFOSA (S)	45	%.	10-150	1	06/12/24 06:52	06/13/24 17:19		
13C2PFHxDA (S)	75	%.	25-150	1	06/12/24 06:52	06/13/24 17:19		
13C5-PFHxA (S)	97	%.	25-150	1	06/12/24 06:52	06/13/24 17:19		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-PZ1-0-240523 **Lab ID: 10694182013** Collected: 05/23/24 09:40 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 24.854 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	18.9	1	06/12/24 06:52	06/13/24 17:27	763051-92-9	
4:2 FTS	ND	ng/L	18.8	1	06/12/24 06:52	06/13/24 17:27	757124-72-4	
6:2 FTS	**27.4**	ng/L	19.1	1	06/12/24 06:52	06/13/24 17:27	27619-97-2	
8:2 FTS	ND	ng/L	19.4	1	06/12/24 06:52	06/13/24 17:27	39108-34-4	
9Cl-PF3ONS	ND	ng/L	18.7	1	06/12/24 06:52	06/13/24 17:27	756426-58-1	
ADONA	ND	ng/L	19.0	1	06/12/24 06:52	06/13/24 17:27	919005-14-4	
HFPO-DA	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:27	13252-13-6	
NEtFOSAA	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:27	2991-50-6	
NEtFOSA	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:27	4151-50-2	
NEtFOSE	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:27	1691-99-2	
NMeFOSAA	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:27	2355-31-9	
NMeFOSA	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:27	31506-32-8	
NMeFOSE	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:27	24448-09-7	
PFBS	**45.7**	ng/L	17.8	1	06/12/24 06:52	06/13/24 17:27	375-73-5	
PFDA	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:27	335-76-2	
PFHxA	**139**	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:27	307-24-4	
PFBA	**54.7**	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:27	375-22-4	
PFDS	ND	ng/L	19.4	1	06/12/24 06:52	06/13/24 17:27	335-77-3	
PFDoS	ND	ng/L	19.5	1	06/12/24 06:52	06/13/24 17:27	79780-39-5	
PFHpS	ND	ng/L	19.1	1	06/12/24 06:52	06/13/24 17:27	375-92-8	
PFNS	ND	ng/L	19.3	1	06/12/24 06:52	06/13/24 17:27	68259-12-1	
PFOSA	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:27	754-91-6	
PFPeA	**27.8**	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:27	2706-90-3	
PFPeS	**150**	ng/L	18.9	1	06/12/24 06:52	06/13/24 17:27	2706-91-4	
PFDoA	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:27	307-55-1	
PFHpA	**27.7**	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:27	375-85-9	
PFHxS	**4040**	ng/L	91.5	5	06/12/24 06:52	06/14/24 13:05	355-46-4	
PFNA	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:27	375-95-1	
PFOS	ND	ng/L	18.6	1	06/12/24 06:52	06/13/24 17:27	1763-23-1	
PFOA	**52.6**	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:27	335-67-1	
PFTeDA	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:27	376-06-7	
PFTrDA	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:27	72629-94-8	
PFUnA	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:27	2058-94-8	
Surrogates								
13C4-PFBA (S)	88	%.	25-150	1	06/12/24 06:52	06/13/24 17:27		
13C5-PFPeA (S)	92	%.	25-150	1	06/12/24 06:52	06/13/24 17:27		
13C3-PFBS (S)	92	%.	25-150	1	06/12/24 06:52	06/13/24 17:27		
13C24:2FTS (S)	40	%.	25-150	1	06/12/24 06:52	06/13/24 17:27		
13C3HFPO-DA (S)	82	%.	25-150	1	06/12/24 06:52	06/13/24 17:27		
13C4-PFHpA (S)	93	%.	25-150	1	06/12/24 06:52	06/13/24 17:27		
13C3-PFHxS (S)	95	%.	25-150	1	06/12/24 06:52	06/13/24 17:27		
13C3-PFHxS (S)	95	%.	25-150	5	06/12/24 06:52	06/14/24 13:05		
13C26:2FTS (S)	50	%.	25-150	1	06/12/24 06:52	06/13/24 17:27		
13C8-PFOA (S)	98	%.	25-150	1	06/12/24 06:52	06/13/24 17:27		
13C8-PFOS (S)	96	%.	25-150	1	06/12/24 06:52	06/13/24 17:27		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-PZ1-0-240523 **Lab ID: 10694182013** Collected: 05/23/24 09:40 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 24.854 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
Surrogates								
13C9-PFNA (S)	102	%.	25-150	1	06/12/24 06:52	06/13/24 17:27		
13C6-PFDA (S)	98	%.	25-150	1	06/12/24 06:52	06/13/24 17:27		
13C28:2FTS (S)	74	%.	25-150	1	06/12/24 06:52	06/13/24 17:27		
d3-MeFOSAA (S)	59	%.	25-150	1	06/12/24 06:52	06/13/24 17:27		
13C7-PFUdA (S)	90	%.	25-150	1	06/12/24 06:52	06/13/24 17:27		
13C8-PFOSA (S)	63	%.	25-150	1	06/12/24 06:52	06/13/24 17:27		
d5-EtFOSAA (S)	57	%.	25-150	1	06/12/24 06:52	06/13/24 17:27		
13C2-PFDoA (S)	82	%.	25-150	1	06/12/24 06:52	06/13/24 17:27		
d3-NMeFOSA (S)	36	%.	10-150	1	06/12/24 06:52	06/13/24 17:27		
d7-NMeFOSE (S)	47	%.	10-150	1	06/12/24 06:52	06/13/24 17:27		
13C2-PFTA (S)	71	%.	25-150	1	06/12/24 06:52	06/13/24 17:27		
d9-NEtFOSE (S)	41	%.	10-150	1	06/12/24 06:52	06/13/24 17:27		
d5-NEtFOSA (S)	32	%.	10-150	1	06/12/24 06:52	06/13/24 17:27		
13C2PFHxDA (S)	67	%.	25-150	1	06/12/24 06:52	06/13/24 17:27		
13C5-PFHxA (S)	93	%.	25-150	1	06/12/24 06:52	06/13/24 17:27		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-PZ2-0-240523 **Lab ID: 10694182014** Collected: 05/23/24 12:55 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 24.607 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	19.1	1	06/12/24 06:52	06/13/24 17:34	763051-92-9	
4:2 FTS	ND	ng/L	19.0	1	06/12/24 06:52	06/13/24 17:34	757124-72-4	
6:2 FTS	ND	ng/L	19.3	1	06/12/24 06:52	06/13/24 17:34	27619-97-2	
8:2 FTS	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 17:34	39108-34-4	
9Cl-PF3ONS	ND	ng/L	18.9	1	06/12/24 06:52	06/13/24 17:34	756426-58-1	
ADONA	ND	ng/L	19.2	1	06/12/24 06:52	06/13/24 17:34	919005-14-4	
HFPO-DA	ND	ng/L	20.3	1	06/12/24 06:52	06/13/24 17:34	13252-13-6	
NEtFOSAA	ND	ng/L	20.3	1	06/12/24 06:52	06/13/24 17:34	2991-50-6	
NEtFOSA	ND	ng/L	20.3	1	06/12/24 06:52	06/13/24 17:34	4151-50-2	
NEtFOSE	ND	ng/L	20.3	1	06/12/24 06:52	06/13/24 17:34	1691-99-2	
NMeFOSAA	ND	ng/L	20.3	1	06/12/24 06:52	06/13/24 17:34	2355-31-9	
NMeFOSA	ND	ng/L	20.3	1	06/12/24 06:52	06/13/24 17:34	31506-32-8	
NMeFOSE	ND	ng/L	20.3	1	06/12/24 06:52	06/13/24 17:34	24448-09-7	
PFBS	**31.9**	ng/L	18.0	1	06/12/24 06:52	06/13/24 17:34	375-73-5	
PFDA	ND	ng/L	20.3	1	06/12/24 06:52	06/13/24 17:34	335-76-2	
PFHxA	**132**	ng/L	20.3	1	06/12/24 06:52	06/13/24 17:34	307-24-4	
PFBA	**56.5**	ng/L	20.3	1	06/12/24 06:52	06/13/24 17:34	375-22-4	
PFDS	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 17:34	335-77-3	
PFDoS	ND	ng/L	19.7	1	06/12/24 06:52	06/13/24 17:34	79780-39-5	
PFHpS	**60.9**	ng/L	19.3	1	06/12/24 06:52	06/13/24 17:34	375-92-8	
PFNS	ND	ng/L	19.5	1	06/12/24 06:52	06/13/24 17:34	68259-12-1	
PFOSA	ND	ng/L	20.3	1	06/12/24 06:52	06/13/24 17:34	754-91-6	
PFPeA	**40.1**	ng/L	20.3	1	06/12/24 06:52	06/13/24 17:34	2706-90-3	
PFPeS	**112**	ng/L	19.1	1	06/12/24 06:52	06/13/24 17:34	2706-91-4	
PFDoA	ND	ng/L	20.3	1	06/12/24 06:52	06/13/24 17:34	307-55-1	
PFHpA	**27.7**	ng/L	20.3	1	06/12/24 06:52	06/13/24 17:34	375-85-9	
PFHxS	**1700**	ng/L	18.5	1	06/12/24 06:52	06/13/24 17:34	355-46-4	
PFNA	ND	ng/L	20.3	1	06/12/24 06:52	06/13/24 17:34	375-95-1	
PFOS	**673**	ng/L	18.8	1	06/12/24 06:52	06/13/24 17:34	1763-23-1	
PFOA	**166**	ng/L	20.3	1	06/12/24 06:52	06/13/24 17:34	335-67-1	
PFTeDA	ND	ng/L	20.3	1	06/12/24 06:52	06/13/24 17:34	376-06-7	
PFTrDA	ND	ng/L	20.3	1	06/12/24 06:52	06/13/24 17:34	72629-94-8	
PFUnA	ND	ng/L	20.3	1	06/12/24 06:52	06/13/24 17:34	2058-94-8	
Surrogates								
13C4-PFBA (S)	86	%.	25-150	1	06/12/24 06:52	06/13/24 17:34		1M
13C5-PFPeA (S)	93	%.	25-150	1	06/12/24 06:52	06/13/24 17:34		
13C3-PFBS (S)	94	%.	25-150	1	06/12/24 06:52	06/13/24 17:34		
13C24:2FTS (S)	42	%.	25-150	1	06/12/24 06:52	06/13/24 17:34		
13C3HFPO-DA (S)	87	%.	25-150	1	06/12/24 06:52	06/13/24 17:34		
13C4-PFHpA (S)	95	%.	25-150	1	06/12/24 06:52	06/13/24 17:34		
13C3-PFHxS (S)	96	%.	25-150	1	06/12/24 06:52	06/13/24 17:34		
13C26:2FTS (S)	58	%.	25-150	1	06/12/24 06:52	06/13/24 17:34		
13C8-PFOA (S)	100	%.	25-150	1	06/12/24 06:52	06/13/24 17:34		
13C8-PFOS (S)	94	%.	25-150	1	06/12/24 06:52	06/13/24 17:34		
13C9-PFNA (S)	101	%.	25-150	1	06/12/24 06:52	06/13/24 17:34		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-PZ2-0-240523 **Lab ID: 10694182014** Collected: 05/23/24 12:55 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 24.607 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
Surrogates								
13C6-PFDA (S)	94	%.	25-150	1	06/12/24 06:52	06/13/24 17:34		
13C28:2FTS (S)	65	%.	25-150	1	06/12/24 06:52	06/13/24 17:34		
d3-MeFOSAA (S)	66	%.	25-150	1	06/12/24 06:52	06/13/24 17:34		
13C7-PFUdA (S)	95	%.	25-150	1	06/12/24 06:52	06/13/24 17:34		
13C8-PFOSA (S)	67	%.	25-150	1	06/12/24 06:52	06/13/24 17:34		
d5-EtFOSAA (S)	68	%.	25-150	1	06/12/24 06:52	06/13/24 17:34		
13C2-PFDoA (S)	92	%.	25-150	1	06/12/24 06:52	06/13/24 17:34		
d3-NMeFOSA (S)	7	%.	10-150	1	06/12/24 06:52	06/13/24 17:34		S0
d7-NMeFOSE (S)	48	%.	10-150	1	06/12/24 06:52	06/13/24 17:34		
13C2-PFTA (S)	83	%.	25-150	1	06/12/24 06:52	06/13/24 17:34		
d9-NEtFOSE (S)	46	%.	10-150	1	06/12/24 06:52	06/13/24 17:34		
d5-NEtFOSA (S)	5	%.	10-150	1	06/12/24 06:52	06/13/24 17:34		S0
13C2PFHxDA (S)	55	%.	25-150	1	06/12/24 06:52	06/13/24 17:34		
13C5-PFHxA (S)	96	%.	25-150	1	06/12/24 06:52	06/13/24 17:34		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-PZ3-0-240523 **Lab ID: 10694182015** Collected: 05/23/24 13:10 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 24.88 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	18.9	1	06/12/24 06:52	06/13/24 17:48	763051-92-9	
4:2 FTS	ND	ng/L	18.8	1	06/12/24 06:52	06/13/24 17:48	757124-72-4	
6:2 FTS	ND	ng/L	19.1	1	06/12/24 06:52	06/13/24 17:48	27619-97-2	
8:2 FTS	ND	ng/L	19.4	1	06/12/24 06:52	06/13/24 17:48	39108-34-4	
9Cl-PF3ONS	ND	ng/L	18.7	1	06/12/24 06:52	06/13/24 17:48	756426-58-1	
ADONA	ND	ng/L	19.0	1	06/12/24 06:52	06/13/24 17:48	919005-14-4	
HFPO-DA	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:48	13252-13-6	
NEtFOSAA	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:48	2991-50-6	
NEtFOSA	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:48	4151-50-2	
NEtFOSE	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:48	1691-99-2	
NMeFOSAA	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:48	2355-31-9	
NMeFOSA	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:48	31506-32-8	
NMeFOSE	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:48	24448-09-7	
PFBS	**111**	ng/L	17.8	1	06/12/24 06:52	06/13/24 17:48	375-73-5	
PFDA	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:48	335-76-2	
PFHxA	**225**	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:48	307-24-4	
PFBA	**62.9**	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:48	375-22-4	
PFDS	ND	ng/L	19.4	1	06/12/24 06:52	06/13/24 17:48	335-77-3	
PFDoS	ND	ng/L	19.5	1	06/12/24 06:52	06/13/24 17:48	79780-39-5	
PFHpS	**50.0**	ng/L	19.1	1	06/12/24 06:52	06/13/24 17:48	375-92-8	
PFNS	ND	ng/L	19.3	1	06/12/24 06:52	06/13/24 17:48	68259-12-1	
PFOSA	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:48	754-91-6	
PFPeA	**52.7**	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:48	2706-90-3	
PFPeS	**275**	ng/L	18.9	1	06/12/24 06:52	06/13/24 17:48	2706-91-4	
PFDoA	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:48	307-55-1	
PFHpA	**43.0**	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:48	375-85-9	
PFHxS	**1080**	ng/L	18.3	1	06/12/24 06:52	06/13/24 17:48	355-46-4	
PFNA	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:48	375-95-1	
PFOS	**1610**	ng/L	18.6	1	06/12/24 06:52	06/13/24 17:48	1763-23-1	
PFOA	**89.4**	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:48	335-67-1	
PFTeDA	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:48	376-06-7	
PFTrDA	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:48	72629-94-8	
PFUnA	ND	ng/L	20.1	1	06/12/24 06:52	06/13/24 17:48	2058-94-8	
Surrogates								
13C4-PFBA (S)	94	%.	25-150	1	06/12/24 06:52	06/13/24 17:48		
13C5-PFPeA (S)	97	%.	25-150	1	06/12/24 06:52	06/13/24 17:48		
13C3-PFBS (S)	99	%.	25-150	1	06/12/24 06:52	06/13/24 17:48		
13C24:2FTS (S)	48	%.	25-150	1	06/12/24 06:52	06/13/24 17:48		
13C3HFPO-DA (S)	92	%.	25-150	1	06/12/24 06:52	06/13/24 17:48		
13C4-PFHpA (S)	99	%.	25-150	1	06/12/24 06:52	06/13/24 17:48		
13C3-PFHxS (S)	101	%.	25-150	1	06/12/24 06:52	06/13/24 17:48		
13C26:2FTS (S)	63	%.	25-150	1	06/12/24 06:52	06/13/24 17:48		
13C8-PFOA (S)	101	%.	25-150	1	06/12/24 06:52	06/13/24 17:48		
13C8-PFOS (S)	100	%.	25-150	1	06/12/24 06:52	06/13/24 17:48		
13C9-PFNA (S)	108	%.	25-150	1	06/12/24 06:52	06/13/24 17:48		

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1700 Elm Street
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(612)607-1700

ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-PZ3-0-240523 **Lab ID: 10694182015** Collected: 05/23/24 13:10 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 24.88 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
Surrogates								
13C6-PFDA (S)	102	%.	25-150	1	06/12/24 06:52	06/13/24 17:48		
13C28:2FTS (S)	79	%.	25-150	1	06/12/24 06:52	06/13/24 17:48		
d3-MeFOSAA (S)	75	%.	25-150	1	06/12/24 06:52	06/13/24 17:48		
13C7-PFUdA (S)	98	%.	25-150	1	06/12/24 06:52	06/13/24 17:48		
13C8-PFOSA (S)	77	%.	25-150	1	06/12/24 06:52	06/13/24 17:48		
d5-EtFOSAA (S)	72	%.	25-150	1	06/12/24 06:52	06/13/24 17:48		
13C2-PFDoA (S)	94	%.	25-150	1	06/12/24 06:52	06/13/24 17:48		
d3-NMeFOSA (S)	31	%.	10-150	1	06/12/24 06:52	06/13/24 17:48		
d7-NMeFOSE (S)	68	%.	10-150	1	06/12/24 06:52	06/13/24 17:48		
13C2-PFTA (S)	92	%.	25-150	1	06/12/24 06:52	06/13/24 17:48		
d9-NEtFOSE (S)	63	%.	10-150	1	06/12/24 06:52	06/13/24 17:48		
d5-NEtFOSA (S)	28	%.	10-150	1	06/12/24 06:52	06/13/24 17:48		
13C2PFHxDA (S)	84	%.	25-150	1	06/12/24 06:52	06/13/24 17:48		
13C5-PFHxA (S)	99	%.	25-150	1	06/12/24 06:52	06/13/24 17:48		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-PZ3-DB-240523 **Lab ID: 10694182016** Collected: 05/23/24 13:10 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 25.533 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	18.4	1	06/12/24 06:52	06/13/24 17:55	763051-92-9	
4:2 FTS	ND	ng/L	18.3	1	06/12/24 06:52	06/13/24 17:55	757124-72-4	
6:2 FTS	ND	ng/L	18.6	1	06/12/24 06:52	06/13/24 17:55	27619-97-2	
8:2 FTS	ND	ng/L	18.9	1	06/12/24 06:52	06/13/24 17:55	39108-34-4	
9Cl-PF3ONS	ND	ng/L	18.2	1	06/12/24 06:52	06/13/24 17:55	756426-58-1	
ADONA	ND	ng/L	18.5	1	06/12/24 06:52	06/13/24 17:55	919005-14-4	
HFPO-DA	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 17:55	13252-13-6	
NEtFOSAA	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 17:55	2991-50-6	
NEtFOSA	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 17:55	4151-50-2	
NEtFOSE	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 17:55	1691-99-2	
NMeFOSAA	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 17:55	2355-31-9	
NMeFOSA	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 17:55	31506-32-8	
NMeFOSE	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 17:55	24448-09-7	
PFBS	**121**	ng/L	17.3	1	06/12/24 06:52	06/13/24 17:55	375-73-5	
PFDA	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 17:55	335-76-2	
PFHxA	**290**	ng/L	19.6	1	06/12/24 06:52	06/13/24 17:55	307-24-4	
PFBA	**131**	ng/L	19.6	1	06/12/24 06:52	06/13/24 17:55	375-22-4	
PFDS	ND	ng/L	18.9	1	06/12/24 06:52	06/13/24 17:55	335-77-3	
PFDoS	ND	ng/L	19.0	1	06/12/24 06:52	06/13/24 17:55	79780-39-5	
PFHpS	**70.2**	ng/L	18.6	1	06/12/24 06:52	06/13/24 17:55	375-92-8	
PFNS	ND	ng/L	18.8	1	06/12/24 06:52	06/13/24 17:55	68259-12-1	
PFOSA	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 17:55	754-91-6	
PFPeA	**76.8**	ng/L	19.6	1	06/12/24 06:52	06/13/24 17:55	2706-90-3	
PFPeS	**264**	ng/L	18.4	1	06/12/24 06:52	06/13/24 17:55	2706-91-4	
PFDoA	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 17:55	307-55-1	
PFHpA	**55.5**	ng/L	19.6	1	06/12/24 06:52	06/13/24 17:55	375-85-9	
PFHxS	**1220**	ng/L	17.8	1	06/12/24 06:52	06/13/24 17:55	355-46-4	
PFNA	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 17:55	375-95-1	
PFOS	**1580**	ng/L	18.1	1	06/12/24 06:52	06/13/24 17:55	1763-23-1	
PFOA	**184**	ng/L	19.6	1	06/12/24 06:52	06/13/24 17:55	335-67-1	
PFTeDA	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 17:55	376-06-7	
PFTrDA	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 17:55	72629-94-8	
PFUnA	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 17:55	2058-94-8	
Surrogates								
13C4-PFBA (S)	96	%.	25-150	1	06/12/24 06:52	06/13/24 17:55		
13C5-PFPeA (S)	94	%.	25-150	1	06/12/24 06:52	06/13/24 17:55		
13C3-PFBS (S)	100	%.	25-150	1	06/12/24 06:52	06/13/24 17:55		
13C24:2FTS (S)	72	%.	25-150	1	06/12/24 06:52	06/13/24 17:55		
13C3HFPO-DA (S)	81	%.	25-150	1	06/12/24 06:52	06/13/24 17:55		
13C4-PFHpA (S)	103	%.	25-150	1	06/12/24 06:52	06/13/24 17:55		
13C3-PFHxS (S)	105	%.	25-150	1	06/12/24 06:52	06/13/24 17:55		
13C26:2FTS (S)	112	%.	25-150	1	06/12/24 06:52	06/13/24 17:55		
13C8-PFOA (S)	106	%.	25-150	1	06/12/24 06:52	06/13/24 17:55		
13C8-PFOS (S)	103	%.	25-150	1	06/12/24 06:52	06/13/24 17:55		
13C9-PFNA (S)	113	%.	25-150	1	06/12/24 06:52	06/13/24 17:55		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-PZ3-DB-240523 **Lab ID: 10694182016** Collected: 05/23/24 13:10 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 25.533 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
Surrogates								
13C6-PFDA (S)	106	%.	25-150	1	06/12/24 06:52	06/13/24 17:55		
13C28:2FTS (S)	122	%.	25-150	1	06/12/24 06:52	06/13/24 17:55		
d3-MeFOSAA (S)	76	%.	25-150	1	06/12/24 06:52	06/13/24 17:55		
13C7-PFUdA (S)	107	%.	25-150	1	06/12/24 06:52	06/13/24 17:55		
13C8-PFOSA (S)	75	%.	25-150	1	06/12/24 06:52	06/13/24 17:55		
d5-EtFOSAA (S)	78	%.	25-150	1	06/12/24 06:52	06/13/24 17:55		
13C2-PFDoA (S)	101	%.	25-150	1	06/12/24 06:52	06/13/24 17:55		
d3-NMeFOSA (S)	37	%.	10-150	1	06/12/24 06:52	06/13/24 17:55		
d7-NMeFOSE (S)	59	%.	10-150	1	06/12/24 06:52	06/13/24 17:55		
13C2-PFTA (S)	102	%.	25-150	1	06/12/24 06:52	06/13/24 17:55		
d9-NEtFOSE (S)	58	%.	10-150	1	06/12/24 06:52	06/13/24 17:55		
d5-NEtFOSA (S)	30	%.	10-150	1	06/12/24 06:52	06/13/24 17:55		
13C2PFHxDA (S)	94	%.	25-150	1	06/12/24 06:52	06/13/24 17:55		
13C5-PFHxA (S)	100	%.	25-150	1	06/12/24 06:52	06/13/24 17:55		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-PZ4-0-240523 **Lab ID: 10694182017** Collected: 05/23/24 13:35 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 25.562 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	18.4	1	06/12/24 06:52	06/13/24 18:03	763051-92-9	
4:2 FTS	ND	ng/L	18.3	1	06/12/24 06:52	06/13/24 18:03	757124-72-4	
6:2 FTS	**22.7**	ng/L	18.6	1	06/12/24 06:52	06/13/24 18:03	27619-97-2	
8:2 FTS	ND	ng/L	18.9	1	06/12/24 06:52	06/13/24 18:03	39108-34-4	
9Cl-PF3ONS	ND	ng/L	18.2	1	06/12/24 06:52	06/13/24 18:03	756426-58-1	
ADONA	ND	ng/L	18.5	1	06/12/24 06:52	06/13/24 18:03	919005-14-4	
HFPO-DA	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 18:03	13252-13-6	
NEtFOSAA	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 18:03	2991-50-6	
NEtFOSA	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 18:03	4151-50-2	
NEtFOSE	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 18:03	1691-99-2	
NMeFOSAA	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 18:03	2355-31-9	
NMeFOSA	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 18:03	31506-32-8	
NMeFOSE	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 18:03	24448-09-7	
PFBS	ND	ng/L	17.3	1	06/12/24 06:52	06/13/24 18:03	375-73-5	
PFDA	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 18:03	335-76-2	
PFHxA	**34.0**	ng/L	19.6	1	06/12/24 06:52	06/13/24 18:03	307-24-4	
PFBA	**55.9**	ng/L	19.6	1	06/12/24 06:52	06/13/24 18:03	375-22-4	
PFDS	ND	ng/L	18.9	1	06/12/24 06:52	06/13/24 18:03	335-77-3	
PFDoS	ND	ng/L	19.0	1	06/12/24 06:52	06/13/24 18:03	79780-39-5	
PFHpS	**119**	ng/L	18.6	1	06/12/24 06:52	06/13/24 18:03	375-92-8	
PFNS	ND	ng/L	18.8	1	06/12/24 06:52	06/13/24 18:03	68259-12-1	
PFOSA	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 18:03	754-91-6	
PFPeA	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 18:03	2706-90-3	
PFPeS	**27.1**	ng/L	18.4	1	06/12/24 06:52	06/13/24 18:03	2706-91-4	
PFDoA	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 18:03	307-55-1	
PFHpA	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 18:03	375-85-9	
PFHxS	**511**	ng/L	17.8	1	06/12/24 06:52	06/13/24 18:03	355-46-4	
PFNA	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 18:03	375-95-1	
PFOS	**261**	ng/L	18.1	1	06/12/24 06:52	06/13/24 18:03	1763-23-1	
PFOA	**61.9**	ng/L	19.6	1	06/12/24 06:52	06/13/24 18:03	335-67-1	
PFTeDA	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 18:03	376-06-7	
PFTrDA	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 18:03	72629-94-8	
PFUnA	ND	ng/L	19.6	1	06/12/24 06:52	06/13/24 18:03	2058-94-8	
Surrogates								
13C4-PFBA (S)	97	%.	25-150	1	06/12/24 06:52	06/13/24 18:03		
13C5-PFPeA (S)	97	%.	25-150	1	06/12/24 06:52	06/13/24 18:03		
13C3-PFBS (S)	101	%.	25-150	1	06/12/24 06:52	06/13/24 18:03		
13C24:2FTS (S)	66	%.	25-150	1	06/12/24 06:52	06/13/24 18:03		
13C3HFPO-DA (S)	82	%.	25-150	1	06/12/24 06:52	06/13/24 18:03		
13C4-PFHpA (S)	103	%.	25-150	1	06/12/24 06:52	06/13/24 18:03		
13C3-PFHxS (S)	105	%.	25-150	1	06/12/24 06:52	06/13/24 18:03		
13C26:2FTS (S)	103	%.	25-150	1	06/12/24 06:52	06/13/24 18:03		
13C8-PFOA (S)	109	%.	25-150	1	06/12/24 06:52	06/13/24 18:03		
13C8-PFOS (S)	108	%.	25-150	1	06/12/24 06:52	06/13/24 18:03		
13C9-PFNA (S)	116	%.	25-150	1	06/12/24 06:52	06/13/24 18:03		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-PZ4-0-240523 **Lab ID: 10694182017** Collected: 05/23/24 13:35 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 25.562 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
Surrogates								
13C6-PFDA (S)	111	%.	25-150	1	06/12/24 06:52	06/13/24 18:03		
13C28:2FTS (S)	113	%.	25-150	1	06/12/24 06:52	06/13/24 18:03		
d3-MeFOSAA (S)	82	%.	25-150	1	06/12/24 06:52	06/13/24 18:03		
13C7-PFUdA (S)	115	%.	25-150	1	06/12/24 06:52	06/13/24 18:03		
13C8-PFOSA (S)	78	%.	25-150	1	06/12/24 06:52	06/13/24 18:03		
d5-EtFOSAA (S)	85	%.	25-150	1	06/12/24 06:52	06/13/24 18:03		
13C2-PFDoA (S)	105	%.	25-150	1	06/12/24 06:52	06/13/24 18:03		
d3-NMeFOSA (S)	15	%.	10-150	1	06/12/24 06:52	06/13/24 18:03		
d7-NMeFOSE (S)	61	%.	10-150	1	06/12/24 06:52	06/13/24 18:03		
13C2-PFTA (S)	94	%.	25-150	1	06/12/24 06:52	06/13/24 18:03		
d9-NEtFOSE (S)	57	%.	10-150	1	06/12/24 06:52	06/13/24 18:03		
d5-NEtFOSA (S)	11	%.	10-150	1	06/12/24 06:52	06/13/24 18:03		
13C2PFHxDA (S)	84	%.	25-150	1	06/12/24 06:52	06/13/24 18:03		
13C5-PFHxA (S)	102	%.	25-150	1	06/12/24 06:52	06/13/24 18:03		

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-PZ5-0-240523 **Lab ID: 10694182018** Collected: 05/23/24 13:50 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 14.67 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	32.0	1	06/12/24 06:52	06/13/24 18:10	763051-92-9	
4:2 FTS	ND	ng/L	31.9	1	06/12/24 06:52	06/13/24 18:10	757124-72-4	
6:2 FTS	ND	ng/L	32.4	1	06/12/24 06:52	06/13/24 18:10	27619-97-2	
8:2 FTS	ND	ng/L	32.9	1	06/12/24 06:52	06/13/24 18:10	39108-34-4	
9Cl-PF3ONS	ND	ng/L	31.7	1	06/12/24 06:52	06/13/24 18:10	756426-58-1	
ADONA	ND	ng/L	32.2	1	06/12/24 06:52	06/13/24 18:10	919005-14-4	
HFPO-DA	ND	ng/L	34.1	1	06/12/24 06:52	06/13/24 18:10	13252-13-6	
NEtFOSAA	ND	ng/L	34.1	1	06/12/24 06:52	06/13/24 18:10	2991-50-6	
NEtFOSA	ND	ng/L	34.1	1	06/12/24 06:52	06/13/24 18:10	4151-50-2	
NEtFOSE	ND	ng/L	34.1	1	06/12/24 06:52	06/13/24 18:10	1691-99-2	
NMeFOSAA	ND	ng/L	34.1	1	06/12/24 06:52	06/13/24 18:10	2355-31-9	
NMeFOSA	ND	ng/L	34.1	1	06/12/24 06:52	06/13/24 18:10	31506-32-8	
NMeFOSE	ND	ng/L	34.1	1	06/12/24 06:52	06/13/24 18:10	24448-09-7	
PFBS	ND	ng/L	30.2	1	06/12/24 06:52	06/13/24 18:10	375-73-5	
PFDA	ND	ng/L	34.1	1	06/12/24 06:52	06/13/24 18:10	335-76-2	
PFHxA	ND	ng/L	34.1	1	06/12/24 06:52	06/13/24 18:10	307-24-4	
PFBA	**116**	ng/L	34.1	1	06/12/24 06:52	06/13/24 18:10	375-22-4	
PFDS	ND	ng/L	32.9	1	06/12/24 06:52	06/13/24 18:10	335-77-3	
PFDoS	ND	ng/L	33.1	1	06/12/24 06:52	06/13/24 18:10	79780-39-5	
PFHpS	ND	ng/L	32.4	1	06/12/24 06:52	06/13/24 18:10	375-92-8	
PFNS	ND	ng/L	32.7	1	06/12/24 06:52	06/13/24 18:10	68259-12-1	
PFOSA	ND	ng/L	34.1	1	06/12/24 06:52	06/13/24 18:10	754-91-6	
PFPeA	ND	ng/L	34.1	1	06/12/24 06:52	06/13/24 18:10	2706-90-3	
PFPeS	ND	ng/L	32.0	1	06/12/24 06:52	06/13/24 18:10	2706-91-4	
PFDoA	ND	ng/L	34.1	1	06/12/24 06:52	06/13/24 18:10	307-55-1	
PFHpA	ND	ng/L	34.1	1	06/12/24 06:52	06/13/24 18:10	375-85-9	
PFHxS	**54.6**	ng/L	31.0	1	06/12/24 06:52	06/13/24 18:10	355-46-4	
PFNA	ND	ng/L	34.1	1	06/12/24 06:52	06/13/24 18:10	375-95-1	
PFOS	**34.9**	ng/L	31.5	1	06/12/24 06:52	06/13/24 18:10	1763-23-1	
PFOA	ND	ng/L	34.1	1	06/12/24 06:52	06/13/24 18:10	335-67-1	
PFTeDA	ND	ng/L	34.1	1	06/12/24 06:52	06/13/24 18:10	376-06-7	
PFTrDA	ND	ng/L	34.1	1	06/12/24 06:52	06/13/24 18:10	72629-94-8	
PFUnA	ND	ng/L	34.1	1	06/12/24 06:52	06/13/24 18:10	2058-94-8	
Surrogates								
13C4-PFBA (S)	88	%.	25-150	1	06/12/24 06:52	06/13/24 18:10		1M
13C5-PFPeA (S)	93	%.	25-150	1	06/12/24 06:52	06/13/24 18:10		
13C3-PFBS (S)	96	%.	25-150	1	06/12/24 06:52	06/13/24 18:10		
13C24:2FTS (S)	50	%.	25-150	1	06/12/24 06:52	06/13/24 18:10		
13C3HFPO-DA (S)	84	%.	25-150	1	06/12/24 06:52	06/13/24 18:10		
13C4-PFHpA (S)	96	%.	25-150	1	06/12/24 06:52	06/13/24 18:10		
13C3-PFHxS (S)	100	%.	25-150	1	06/12/24 06:52	06/13/24 18:10		
13C26:2FTS (S)	72	%.	25-150	1	06/12/24 06:52	06/13/24 18:10		
13C8-PFOA (S)	98	%.	25-150	1	06/12/24 06:52	06/13/24 18:10		
13C8-PFOS (S)	96	%.	25-150	1	06/12/24 06:52	06/13/24 18:10		
13C9-PFNA (S)	105	%.	25-150	1	06/12/24 06:52	06/13/24 18:10		

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-PZ5-0-240523 **Lab ID: 10694182018** Collected: 05/23/24 13:50 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 14.67 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
Surrogates								
13C6-PFDA (S)	99	%.	25-150	1	06/12/24 06:52	06/13/24 18:10		
13C28:2FTS (S)	75	%.	25-150	1	06/12/24 06:52	06/13/24 18:10		
d3-MeFOSAA (S)	73	%.	25-150	1	06/12/24 06:52	06/13/24 18:10		
13C7-PFUdA (S)	99	%.	25-150	1	06/12/24 06:52	06/13/24 18:10		
13C8-PFOSA (S)	69	%.	25-150	1	06/12/24 06:52	06/13/24 18:10		
d5-EtFOSAA (S)	77	%.	25-150	1	06/12/24 06:52	06/13/24 18:10		
13C2-PFDoA (S)	92	%.	25-150	1	06/12/24 06:52	06/13/24 18:10		
d3-NMeFOSA (S)	5	%.	10-150	1	06/12/24 06:52	06/13/24 18:10		S0
d7-NMeFOSE (S)	40	%.	10-150	1	06/12/24 06:52	06/13/24 18:10		
13C2-PFTA (S)	89	%.	25-150	1	06/12/24 06:52	06/13/24 18:10		
d9-NEtFOSE (S)	37	%.	10-150	1	06/12/24 06:52	06/13/24 18:10		
d5-NEtFOSA (S)	4	%.	10-150	1	06/12/24 06:52	06/13/24 18:10		S0
13C2PFHxDA (S)	50	%.	25-150	1	06/12/24 06:52	06/13/24 18:10		
13C5-PFHxA (S)	97	%.	25-150	1	06/12/24 06:52	06/13/24 18:10		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-PZ6-0-240523 **Lab ID: 10694182019** Collected: 05/23/24 14:00 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 13.785 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	34.1	1	06/12/24 06:52	06/13/24 18:17	763051-92-9	
4:2 FTS	ND	ng/L	33.9	1	06/12/24 06:52	06/13/24 18:17	757124-72-4	
6:2 FTS	**37.7**	ng/L	34.5	1	06/12/24 06:52	06/13/24 18:17	27619-97-2	
8:2 FTS	ND	ng/L	35.0	1	06/12/24 06:52	06/13/24 18:17	39108-34-4	
9Cl-PF3ONS	ND	ng/L	33.7	1	06/12/24 06:52	06/13/24 18:17	756426-58-1	
ADONA	ND	ng/L	34.3	1	06/12/24 06:52	06/13/24 18:17	919005-14-4	
HFPO-DA	ND	ng/L	36.3	1	06/12/24 06:52	06/13/24 18:17	13252-13-6	
NEtFOSAA	ND	ng/L	36.3	1	06/12/24 06:52	06/13/24 18:17	2991-50-6	
NEtFOSA	ND	ng/L	36.3	1	06/12/24 06:52	06/13/24 18:17	4151-50-2	
NEtFOSE	ND	ng/L	36.3	1	06/12/24 06:52	06/13/24 18:17	1691-99-2	
NMeFOSAA	ND	ng/L	36.3	1	06/12/24 06:52	06/13/24 18:17	2355-31-9	
NMeFOSA	ND	ng/L	36.3	1	06/12/24 06:52	06/13/24 18:17	31506-32-8	
NMeFOSE	ND	ng/L	36.3	1	06/12/24 06:52	06/13/24 18:17	24448-09-7	
PFBS	ND	ng/L	32.1	1	06/12/24 06:52	06/13/24 18:17	375-73-5	
PFDA	ND	ng/L	36.3	1	06/12/24 06:52	06/13/24 18:17	335-76-2	
PFHxA	ND	ng/L	36.3	1	06/12/24 06:52	06/13/24 18:17	307-24-4	
PFBA	**99.6**	ng/L	36.3	1	06/12/24 06:52	06/13/24 18:17	375-22-4	
PFDS	ND	ng/L	35.0	1	06/12/24 06:52	06/13/24 18:17	335-77-3	
PFDoS	ND	ng/L	35.2	1	06/12/24 06:52	06/13/24 18:17	79780-39-5	
PFHpS	ND	ng/L	34.5	1	06/12/24 06:52	06/13/24 18:17	375-92-8	
PFNS	ND	ng/L	34.8	1	06/12/24 06:52	06/13/24 18:17	68259-12-1	
PFOSA	ND	ng/L	36.3	1	06/12/24 06:52	06/13/24 18:17	754-91-6	
PFPeA	ND	ng/L	36.3	1	06/12/24 06:52	06/13/24 18:17	2706-90-3	
PFPeS	ND	ng/L	34.1	1	06/12/24 06:52	06/13/24 18:17	2706-91-4	
PFDoA	ND	ng/L	36.3	1	06/12/24 06:52	06/13/24 18:17	307-55-1	
PFHpA	ND	ng/L	36.3	1	06/12/24 06:52	06/13/24 18:17	375-85-9	
PFHxS	**50.3**	ng/L	33.0	1	06/12/24 06:52	06/13/24 18:17	355-46-4	
PFNA	ND	ng/L	36.3	1	06/12/24 06:52	06/13/24 18:17	375-95-1	
PFOS	ND	ng/L	33.6	1	06/12/24 06:52	06/13/24 18:17	1763-23-1	
PFOA	ND	ng/L	36.3	1	06/12/24 06:52	06/13/24 18:17	335-67-1	
PFTeDA	ND	ng/L	36.3	1	06/12/24 06:52	06/13/24 18:17	376-06-7	
PFTrDA	ND	ng/L	36.3	1	06/12/24 06:52	06/13/24 18:17	72629-94-8	
PFUnA	ND	ng/L	36.3	1	06/12/24 06:52	06/13/24 18:17	2058-94-8	
Surrogates								
13C4-PFBA (S)	88	%.	25-150	1	06/12/24 06:52	06/13/24 18:17		
13C5-PFPeA (S)	94	%.	25-150	1	06/12/24 06:52	06/13/24 18:17		
13C3-PFBS (S)	99	%.	25-150	1	06/12/24 06:52	06/13/24 18:17		
13C24:2FTS (S)	45	%.	25-150	1	06/12/24 06:52	06/13/24 18:17		
13C3HFPO-DA (S)	88	%.	25-150	1	06/12/24 06:52	06/13/24 18:17		
13C4-PFHpA (S)	96	%.	25-150	1	06/12/24 06:52	06/13/24 18:17		
13C3-PFHxS (S)	102	%.	25-150	1	06/12/24 06:52	06/13/24 18:17		
13C26:2FTS (S)	75	%.	25-150	1	06/12/24 06:52	06/13/24 18:17		
13C8-PFOA (S)	98	%.	25-150	1	06/12/24 06:52	06/13/24 18:17		
13C8-PFOS (S)	96	%.	25-150	1	06/12/24 06:52	06/13/24 18:17		
13C9-PFNA (S)	101	%.	25-150	1	06/12/24 06:52	06/13/24 18:17		

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-PZ6-0-240523 **Lab ID: 10694182019** Collected: 05/23/24 14:00 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 13.785 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
Surrogates								
13C6-PFDA (S)	100	%.	25-150	1	06/12/24 06:52	06/13/24 18:17		
13C28:2FTS (S)	89	%.	25-150	1	06/12/24 06:52	06/13/24 18:17		
d3-MeFOSAA (S)	72	%.	25-150	1	06/12/24 06:52	06/13/24 18:17		
13C7-PFUdA (S)	93	%.	25-150	1	06/12/24 06:52	06/13/24 18:17		
13C8-PFOSA (S)	64	%.	25-150	1	06/12/24 06:52	06/13/24 18:17		
d5-EtFOSAA (S)	77	%.	25-150	1	06/12/24 06:52	06/13/24 18:17		
13C2-PFDoA (S)	94	%.	25-150	1	06/12/24 06:52	06/13/24 18:17		
d3-NMeFOSA (S)	18	%.	10-150	1	06/12/24 06:52	06/13/24 18:17		
d7-NMeFOSE (S)	51	%.	10-150	1	06/12/24 06:52	06/13/24 18:17		
13C2-PFTA (S)	92	%.	25-150	1	06/12/24 06:52	06/13/24 18:17		
d9-NEtFOSE (S)	47	%.	10-150	1	06/12/24 06:52	06/13/24 18:17		
d5-NEtFOSA (S)	15	%.	10-150	1	06/12/24 06:52	06/13/24 18:17		
13C2PFHxDA (S)	79	%.	25-150	1	06/12/24 06:52	06/13/24 18:17		
13C5-PFHxA (S)	98	%.	25-150	1	06/12/24 06:52	06/13/24 18:17		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-PZ7-0-240523 **Lab ID: 10694182020** Collected: 05/23/24 14:15 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 14.395 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	32.7	1	06/12/24 06:52	06/13/24 18:24	763051-92-9	
4:2 FTS	ND	ng/L	32.5	1	06/12/24 06:52	06/13/24 18:24	757124-72-4	
6:2 FTS	ND	ng/L	33.0	1	06/12/24 06:52	06/13/24 18:24	27619-97-2	
8:2 FTS	ND	ng/L	33.5	1	06/12/24 06:52	06/13/24 18:24	39108-34-4	
9Cl-PF3ONS	ND	ng/L	32.3	1	06/12/24 06:52	06/13/24 18:24	756426-58-1	
ADONA	ND	ng/L	32.8	1	06/12/24 06:52	06/13/24 18:24	919005-14-4	
HFPO-DA	ND	ng/L	34.7	1	06/12/24 06:52	06/13/24 18:24	13252-13-6	
NEtFOSAA	ND	ng/L	34.7	1	06/12/24 06:52	06/13/24 18:24	2991-50-6	
NEtFOSA	ND	ng/L	34.7	1	06/12/24 06:52	06/13/24 18:24	4151-50-2	
NEtFOSE	ND	ng/L	34.7	1	06/12/24 06:52	06/13/24 18:24	1691-99-2	
NMeFOSAA	ND	ng/L	34.7	1	06/12/24 06:52	06/13/24 18:24	2355-31-9	
NMeFOSA	ND	ng/L	34.7	1	06/12/24 06:52	06/13/24 18:24	31506-32-8	
NMeFOSE	ND	ng/L	34.7	1	06/12/24 06:52	06/13/24 18:24	24448-09-7	
PFBS	ND	ng/L	30.7	1	06/12/24 06:52	06/13/24 18:24	375-73-5	
PFDA	ND	ng/L	34.7	1	06/12/24 06:52	06/13/24 18:24	335-76-2	
PFHxA	ND	ng/L	34.7	1	06/12/24 06:52	06/13/24 18:24	307-24-4	
PFBA	**43.8**	ng/L	34.7	1	06/12/24 06:52	06/13/24 18:24	375-22-4	
PFDS	ND	ng/L	33.5	1	06/12/24 06:52	06/13/24 18:24	335-77-3	
PFDoS	ND	ng/L	33.7	1	06/12/24 06:52	06/13/24 18:24	79780-39-5	
PFHpS	ND	ng/L	33.0	1	06/12/24 06:52	06/13/24 18:24	375-92-8	
PFNS	ND	ng/L	33.3	1	06/12/24 06:52	06/13/24 18:24	68259-12-1	
PFOSA	ND	ng/L	34.7	1	06/12/24 06:52	06/13/24 18:24	754-91-6	
PFPeA	ND	ng/L	34.7	1	06/12/24 06:52	06/13/24 18:24	2706-90-3	
PFPeS	ND	ng/L	32.7	1	06/12/24 06:52	06/13/24 18:24	2706-91-4	
PFDoA	ND	ng/L	34.7	1	06/12/24 06:52	06/13/24 18:24	307-55-1	
PFHpA	ND	ng/L	34.7	1	06/12/24 06:52	06/13/24 18:24	375-85-9	
PFHxS	ND	ng/L	31.6	1	06/12/24 06:52	06/13/24 18:24	355-46-4	
PFNA	ND	ng/L	34.7	1	06/12/24 06:52	06/13/24 18:24	375-95-1	
PFOS	ND	ng/L	32.1	1	06/12/24 06:52	06/13/24 18:24	1763-23-1	
PFOA	ND	ng/L	34.7	1	06/12/24 06:52	06/13/24 18:24	335-67-1	
PFTeDA	ND	ng/L	34.7	1	06/12/24 06:52	06/13/24 18:24	376-06-7	
PFTrDA	ND	ng/L	34.7	1	06/12/24 06:52	06/13/24 18:24	72629-94-8	
PFUnA	ND	ng/L	34.7	1	06/12/24 06:52	06/13/24 18:24	2058-94-8	
Surrogates								
13C4-PFBA (S)	92	%.	25-150	1	06/12/24 06:52	06/13/24 18:24		1M
13C5-PFPeA (S)	96	%.	25-150	1	06/12/24 06:52	06/13/24 18:24		
13C3-PFBS (S)	100	%.	25-150	1	06/12/24 06:52	06/13/24 18:24		
13C24:2FTS (S)	54	%.	25-150	1	06/12/24 06:52	06/13/24 18:24		
13C3HFPO-DA (S)	97	%.	25-150	1	06/12/24 06:52	06/13/24 18:24		
13C4-PFHpA (S)	99	%.	25-150	1	06/12/24 06:52	06/13/24 18:24		
13C3-PFHxS (S)	103	%.	25-150	1	06/12/24 06:52	06/13/24 18:24		
13C26:2FTS (S)	86	%.	25-150	1	06/12/24 06:52	06/13/24 18:24		
13C8-PFOA (S)	103	%.	25-150	1	06/12/24 06:52	06/13/24 18:24		
13C8-PFOS (S)	101	%.	25-150	1	06/12/24 06:52	06/13/24 18:24		
13C9-PFNA (S)	109	%.	25-150	1	06/12/24 06:52	06/13/24 18:24		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-PZ7-0-240523 **Lab ID: 10694182020** Collected: 05/23/24 14:15 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 14.395 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
Surrogates								
13C6-PFDA (S)	102	%.	25-150	1	06/12/24 06:52	06/13/24 18:24		
13C28:2FTS (S)	110	%.	25-150	1	06/12/24 06:52	06/13/24 18:24		
d3-MeFOSAA (S)	65	%.	25-150	1	06/12/24 06:52	06/13/24 18:24		
13C7-PFUdA (S)	95	%.	25-150	1	06/12/24 06:52	06/13/24 18:24		
13C8-PFOSA (S)	58	%.	25-150	1	06/12/24 06:52	06/13/24 18:24		
d5-EtFOSAA (S)	65	%.	25-150	1	06/12/24 06:52	06/13/24 18:24		
13C2-PFDoA (S)	90	%.	25-150	1	06/12/24 06:52	06/13/24 18:24		
d3-NMeFOSA (S)	1	%.	10-150	1	06/12/24 06:52	06/13/24 18:24		S0
d7-NMeFOSE (S)	34	%.	10-150	1	06/12/24 06:52	06/13/24 18:24		
13C2-PFTA (S)	87	%.	25-150	1	06/12/24 06:52	06/13/24 18:24		
d9-NEtFOSE (S)	35	%.	10-150	1	06/12/24 06:52	06/13/24 18:24		
d5-NEtFOSA (S)	1	%.	10-150	1	06/12/24 06:52	06/13/24 18:24		S0
13C2PFHxDA (S)	62	%.	25-150	1	06/12/24 06:52	06/13/24 18:24		
13C5-PFHxA (S)	99	%.	25-150	1	06/12/24 06:52	06/13/24 18:24		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-PZ8-0-240523 **Lab ID: 10694182021** Collected: 05/23/24 15:15 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 10.108 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	46.5	1	06/12/24 06:52	06/13/24 18:32	763051-92-9	
4:2 FTS	ND	ng/L	46.3	1	06/12/24 06:52	06/13/24 18:32	757124-72-4	
6:2 FTS	ND	ng/L	47.0	1	06/12/24 06:52	06/13/24 18:32	27619-97-2	
8:2 FTS	ND	ng/L	47.7	1	06/12/24 06:52	06/13/24 18:32	39108-34-4	
9Cl-PF3ONS	ND	ng/L	46.0	1	06/12/24 06:52	06/13/24 18:32	756426-58-1	
ADONA	ND	ng/L	46.7	1	06/12/24 06:52	06/13/24 18:32	919005-14-4	
HFPO-DA	ND	ng/L	49.5	1	06/12/24 06:52	06/13/24 18:32	13252-13-6	
NEtFOSAA	ND	ng/L	49.5	1	06/12/24 06:52	06/13/24 18:32	2991-50-6	
NEtFOSA	ND	ng/L	49.5	1	06/12/24 06:52	06/13/24 18:32	4151-50-2	
NEtFOSE	ND	ng/L	49.5	1	06/12/24 06:52	06/13/24 18:32	1691-99-2	
NMeFOSAA	ND	ng/L	49.5	1	06/12/24 06:52	06/13/24 18:32	2355-31-9	
NMeFOSA	ND	ng/L	49.5	1	06/12/24 06:52	06/13/24 18:32	31506-32-8	
NMeFOSE	ND	ng/L	49.5	1	06/12/24 06:52	06/13/24 18:32	24448-09-7	
PFBS	ND	ng/L	43.8	1	06/12/24 06:52	06/13/24 18:32	375-73-5	
PFDA	ND	ng/L	49.5	1	06/12/24 06:52	06/13/24 18:32	335-76-2	
PFHxA	ND	ng/L	49.5	1	06/12/24 06:52	06/13/24 18:32	307-24-4	
PFBA	ND	ng/L	49.5	1	06/12/24 06:52	06/13/24 18:32	375-22-4	
PFDS	ND	ng/L	47.7	1	06/12/24 06:52	06/13/24 18:32	335-77-3	
PFDoS	ND	ng/L	48.0	1	06/12/24 06:52	06/13/24 18:32	79780-39-5	
PFHpS	ND	ng/L	47.0	1	06/12/24 06:52	06/13/24 18:32	375-92-8	
PFNS	ND	ng/L	47.5	1	06/12/24 06:52	06/13/24 18:32	68259-12-1	
PFOSA	ND	ng/L	49.5	1	06/12/24 06:52	06/13/24 18:32	754-91-6	
PFPeA	ND	ng/L	49.5	1	06/12/24 06:52	06/13/24 18:32	2706-90-3	
PFPeS	ND	ng/L	46.5	1	06/12/24 06:52	06/13/24 18:32	2706-91-4	
PFDoA	ND	ng/L	49.5	1	06/12/24 06:52	06/13/24 18:32	307-55-1	
PFHpA	ND	ng/L	49.5	1	06/12/24 06:52	06/13/24 18:32	375-85-9	
PFHxS	ND	ng/L	45.0	1	06/12/24 06:52	06/13/24 18:32	355-46-4	
PFNA	ND	ng/L	49.5	1	06/12/24 06:52	06/13/24 18:32	375-95-1	
PFOS	ND	ng/L	45.8	1	06/12/24 06:52	06/13/24 18:32	1763-23-1	
PFOA	ND	ng/L	49.5	1	06/12/24 06:52	06/13/24 18:32	335-67-1	
PFTeDA	ND	ng/L	49.5	1	06/12/24 06:52	06/13/24 18:32	376-06-7	
PFTrDA	ND	ng/L	49.5	1	06/12/24 06:52	06/13/24 18:32	72629-94-8	
PFUnA	ND	ng/L	49.5	1	06/12/24 06:52	06/13/24 18:32	2058-94-8	
Surrogates								
13C4-PFBA (S)	98	%.	25-150	1	06/12/24 06:52	06/13/24 18:32		1M
13C5-PFPeA (S)	101	%.	25-150	1	06/12/24 06:52	06/13/24 18:32		
13C3-PFBS (S)	102	%.	25-150	1	06/12/24 06:52	06/13/24 18:32		
13C24:2FTS (S)	52	%.	25-150	1	06/12/24 06:52	06/13/24 18:32		
13C3HFPO-DA (S)	94	%.	25-150	1	06/12/24 06:52	06/13/24 18:32		
13C4-PFHpA (S)	103	%.	25-150	1	06/12/24 06:52	06/13/24 18:32		
13C3-PFHxS (S)	105	%.	25-150	1	06/12/24 06:52	06/13/24 18:32		
13C26:2FTS (S)	78	%.	25-150	1	06/12/24 06:52	06/13/24 18:32		
13C8-PFOA (S)	106	%.	25-150	1	06/12/24 06:52	06/13/24 18:32		
13C8-PFOS (S)	105	%.	25-150	1	06/12/24 06:52	06/13/24 18:32		
13C9-PFNA (S)	109	%.	25-150	1	06/12/24 06:52	06/13/24 18:32		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-PZ8-0-240523 **Lab ID: 10694182021** Collected: 05/23/24 15:15 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Initial Volume/Weight: 10.108 mL Final Volume/Weight: 1 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C6-PFDA (S)	103	%.	25-150	1	06/12/24 06:52	06/13/24 18:32		
13C28:2FTS (S)	81	%.	25-150	1	06/12/24 06:52	06/13/24 18:32		
d3-MeFOSAA (S)	83	%.	25-150	1	06/12/24 06:52	06/13/24 18:32		
13C7-PFUdA (S)	108	%.	25-150	1	06/12/24 06:52	06/13/24 18:32		
13C8-PFOSA (S)	68	%.	25-150	1	06/12/24 06:52	06/13/24 18:32		
d5-EtFOSAA (S)	88	%.	25-150	1	06/12/24 06:52	06/13/24 18:32		
13C2-PFDoA (S)	98	%.	25-150	1	06/12/24 06:52	06/13/24 18:32		
d3-NMeFOSA (S)	6	%.	10-150	1	06/12/24 06:52	06/13/24 18:32		S0
d7-NMeFOSE (S)	36	%.	10-150	1	06/12/24 06:52	06/13/24 18:32		
13C2-PFTA (S)	84	%.	25-150	1	06/12/24 06:52	06/13/24 18:32		
d9-NEtFOSE (S)	32	%.	10-150	1	06/12/24 06:52	06/13/24 18:32		
d5-NEtFOSA (S)	5	%.	10-150	1	06/12/24 06:52	06/13/24 18:32		S0
13C2PFHxDA (S)	47	%.	25-150	1	06/12/24 06:52	06/13/24 18:32		
13C5-PFHxA (S)	104	%.	25-150	1	06/12/24 06:52	06/13/24 18:32		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-PZ9-0-240523 **Lab ID: 10694182022** Collected: 05/23/24 15:25 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 22.884 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	20.5	1	06/12/24 06:52	06/13/24 18:39	763051-92-9	
4:2 FTS	ND	ng/L	20.4	1	06/12/24 06:52	06/13/24 18:39	757124-72-4	
6:2 FTS	**35.7**	ng/L	20.8	1	06/12/24 06:52	06/13/24 18:39	27619-97-2	
8:2 FTS	ND	ng/L	21.1	1	06/12/24 06:52	06/13/24 18:39	39108-34-4	
9Cl-PF3ONS	ND	ng/L	20.3	1	06/12/24 06:52	06/13/24 18:39	756426-58-1	
ADONA	ND	ng/L	20.6	1	06/12/24 06:52	06/13/24 18:39	919005-14-4	
HFPO-DA	ND	ng/L	21.8	1	06/12/24 06:52	06/13/24 18:39	13252-13-6	
NEtFOSAA	ND	ng/L	21.8	1	06/12/24 06:52	06/13/24 18:39	2991-50-6	
NEtFOSA	ND	ng/L	21.8	1	06/12/24 06:52	06/13/24 18:39	4151-50-2	
NEtFOSE	ND	ng/L	21.8	1	06/12/24 06:52	06/13/24 18:39	1691-99-2	
NMeFOSAA	ND	ng/L	21.8	1	06/12/24 06:52	06/13/24 18:39	2355-31-9	
NMeFOSA	ND	ng/L	21.8	1	06/12/24 06:52	06/13/24 18:39	31506-32-8	
NMeFOSE	ND	ng/L	21.8	1	06/12/24 06:52	06/13/24 18:39	24448-09-7	
PFBS	ND	ng/L	19.3	1	06/12/24 06:52	06/13/24 18:39	375-73-5	
PFDA	ND	ng/L	21.8	1	06/12/24 06:52	06/13/24 18:39	335-76-2	
PFHxA	ND	ng/L	21.8	1	06/12/24 06:52	06/13/24 18:39	307-24-4	
PFBA	**41.1**	ng/L	21.8	1	06/12/24 06:52	06/13/24 18:39	375-22-4	
PFDS	ND	ng/L	21.1	1	06/12/24 06:52	06/13/24 18:39	335-77-3	
PFDoS	ND	ng/L	21.2	1	06/12/24 06:52	06/13/24 18:39	79780-39-5	
PFHpS	ND	ng/L	20.8	1	06/12/24 06:52	06/13/24 18:39	375-92-8	
PFNS	ND	ng/L	21.0	1	06/12/24 06:52	06/13/24 18:39	68259-12-1	
PFOSA	ND	ng/L	21.8	1	06/12/24 06:52	06/13/24 18:39	754-91-6	
PFPeA	ND	ng/L	21.8	1	06/12/24 06:52	06/13/24 18:39	2706-90-3	
PFPeS	ND	ng/L	20.5	1	06/12/24 06:52	06/13/24 18:39	2706-91-4	
PFDoA	ND	ng/L	21.8	1	06/12/24 06:52	06/13/24 18:39	307-55-1	
PFHpA	ND	ng/L	21.8	1	06/12/24 06:52	06/13/24 18:39	375-85-9	
PFHxS	ND	ng/L	19.9	1	06/12/24 06:52	06/13/24 18:39	355-46-4	
PFNA	ND	ng/L	21.8	1	06/12/24 06:52	06/13/24 18:39	375-95-1	
PFOS	ND	ng/L	20.2	1	06/12/24 06:52	06/13/24 18:39	1763-23-1	
PFOA	ND	ng/L	21.8	1	06/12/24 06:52	06/13/24 18:39	335-67-1	
PFTeDA	ND	ng/L	21.8	1	06/12/24 06:52	06/13/24 18:39	376-06-7	
PFTrDA	ND	ng/L	21.8	1	06/12/24 06:52	06/13/24 18:39	72629-94-8	
PFUnA	ND	ng/L	21.8	1	06/12/24 06:52	06/13/24 18:39	2058-94-8	
Surrogates								
13C4-PFBA (S)	96	%.	25-150	1	06/12/24 06:52	06/13/24 18:39		
13C5-PFPeA (S)	99	%.	25-150	1	06/12/24 06:52	06/13/24 18:39		
13C3-PFBS (S)	102	%.	25-150	1	06/12/24 06:52	06/13/24 18:39		
13C24:2FTS (S)	65	%.	25-150	1	06/12/24 06:52	06/13/24 18:39		
13C3HFPO-DA (S)	85	%.	25-150	1	06/12/24 06:52	06/13/24 18:39		
13C4-PFHpA (S)	103	%.	25-150	1	06/12/24 06:52	06/13/24 18:39		
13C3-PFHxS (S)	103	%.	25-150	1	06/12/24 06:52	06/13/24 18:39		
13C26:2FTS (S)	78	%.	25-150	1	06/12/24 06:52	06/13/24 18:39		
13C8-PFOA (S)	107	%.	25-150	1	06/12/24 06:52	06/13/24 18:39		
13C8-PFOS (S)	105	%.	25-150	1	06/12/24 06:52	06/13/24 18:39		
13C9-PFNA (S)	115	%.	25-150	1	06/12/24 06:52	06/13/24 18:39		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-PZ9-0-240523 **Lab ID: 10694182022** Collected: 05/23/24 15:25 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 22.884 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
Surrogates								
13C6-PFDA (S)	106	%.	25-150	1	06/12/24 06:52	06/13/24 18:39		
13C28:2FTS (S)	89	%.	25-150	1	06/12/24 06:52	06/13/24 18:39		
d3-MeFOSAA (S)	75	%.	25-150	1	06/12/24 06:52	06/13/24 18:39		
13C7-PFUdA (S)	104	%.	25-150	1	06/12/24 06:52	06/13/24 18:39		
13C8-PFOSA (S)	78	%.	25-150	1	06/12/24 06:52	06/13/24 18:39		
d5-EtFOSAA (S)	81	%.	25-150	1	06/12/24 06:52	06/13/24 18:39		
13C2-PFDoA (S)	98	%.	25-150	1	06/12/24 06:52	06/13/24 18:39		
d3-NMeFOSA (S)	54	%.	10-150	1	06/12/24 06:52	06/13/24 18:39		
d7-NMeFOSE (S)	65	%.	10-150	1	06/12/24 06:52	06/13/24 18:39		
13C2-PFTA (S)	95	%.	25-150	1	06/12/24 06:52	06/13/24 18:39		
d9-NEtFOSE (S)	65	%.	10-150	1	06/12/24 06:52	06/13/24 18:39		
d5-NEtFOSA (S)	47	%.	10-150	1	06/12/24 06:52	06/13/24 18:39		
13C2PFHxDA (S)	90	%.	25-150	1	06/12/24 06:52	06/13/24 18:39		
13C5-PFHxA (S)	103	%.	25-150	1	06/12/24 06:52	06/13/24 18:39		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-SW-CREEK01-0-240523 **Lab ID: 10694182023** Collected: 05/23/24 14:10 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 258.401 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	1.8	1	06/12/24 06:52	06/13/24 18:46	763051-92-9	
4:2 FTS	ND	ng/L	1.8	1	06/12/24 06:52	06/13/24 18:46	757124-72-4	
6:2 FTS	ND	ng/L	1.8	1	06/12/24 06:52	06/13/24 18:46	27619-97-2	
8:2 FTS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 18:46	39108-34-4	
9Cl-PF3ONS	ND	ng/L	1.8	1	06/12/24 06:52	06/13/24 18:46	756426-58-1	
ADONA	ND	ng/L	1.8	1	06/12/24 06:52	06/13/24 18:46	919005-14-4	
HFPO-DA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 18:46	13252-13-6	
NEtFOSAA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 18:46	2991-50-6	
NEtFOSA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 18:46	4151-50-2	
NEtFOSE	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 18:46	1691-99-2	
NMeFOSAA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 18:46	2355-31-9	
NMeFOSA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 18:46	31506-32-8	
NMeFOSE	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 18:46	24448-09-7	
PFBS	**4.4**	ng/L	1.7	1	06/12/24 06:52	06/13/24 18:46	375-73-5	
PFDA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 18:46	335-76-2	
PFHxA	**5.1**	ng/L	1.9	1	06/12/24 06:52	06/13/24 18:46	307-24-4	
PFBA	**8.4**	ng/L	1.9	1	06/12/24 06:52	06/13/24 18:46	375-22-4	
PFDS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 18:46	335-77-3	
PFDoS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 18:46	79780-39-5	
PFHpS	ND	ng/L	1.8	1	06/12/24 06:52	06/13/24 18:46	375-92-8	
PFNS	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 18:46	68259-12-1	
PFOSA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 18:46	754-91-6	
PFPeA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 18:46	2706-90-3	
PFPeS	**6.6**	ng/L	1.8	1	06/12/24 06:52	06/13/24 18:46	2706-91-4	
PFDoA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 18:46	307-55-1	
PFHpA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 18:46	375-85-9	
PFHxS	**86.3**	ng/L	1.8	1	06/12/24 06:52	06/13/24 18:46	355-46-4	
PFNA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 18:46	375-95-1	
PFOS	**34.8**	ng/L	1.8	1	06/12/24 06:52	06/13/24 18:46	1763-23-1	
PFOA	**6.5**	ng/L	1.9	1	06/12/24 06:52	06/13/24 18:46	335-67-1	
PFTeDA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 18:46	376-06-7	
PFTrDA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 18:46	72629-94-8	
PFUnA	ND	ng/L	1.9	1	06/12/24 06:52	06/13/24 18:46	2058-94-8	
Surrogates								
13C4-PFBA (S)	87	%.	25-150	1	06/12/24 06:52	06/13/24 18:46		1M
13C5-PFPeA (S)	94	%.	25-150	1	06/12/24 06:52	06/13/24 18:46		
13C3-PFBS (S)	108	%.	25-150	1	06/12/24 06:52	06/13/24 18:46		
13C24:2FTS (S)	63	%.	25-150	1	06/12/24 06:52	06/13/24 18:46		
13C3HFPO-DA (S)	98	%.	25-150	1	06/12/24 06:52	06/13/24 18:46		
13C4-PFHpA (S)	109	%.	25-150	1	06/12/24 06:52	06/13/24 18:46		
13C3-PFHxS (S)	111	%.	25-150	1	06/12/24 06:52	06/13/24 18:46		
13C26:2FTS (S)	75	%.	25-150	1	06/12/24 06:52	06/13/24 18:46		
13C8-PFOA (S)	114	%.	25-150	1	06/12/24 06:52	06/13/24 18:46		
13C8-PFOS (S)	108	%.	25-150	1	06/12/24 06:52	06/13/24 18:46		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-SW-CREEK01-0-240523 **Lab ID: 10694182023** Collected: 05/23/24 14:10 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 258.401 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
Surrogates								
13C9-PFNA (S)	120	%.	25-150	1	06/12/24 06:52	06/13/24 18:46		
13C6-PFDA (S)	116	%.	25-150	1	06/12/24 06:52	06/13/24 18:46		
13C28:2FTS (S)	88	%.	25-150	1	06/12/24 06:52	06/13/24 18:46		
d3-MeFOSAA (S)	86	%.	25-150	1	06/12/24 06:52	06/13/24 18:46		
13C7-PFUdA (S)	108	%.	25-150	1	06/12/24 06:52	06/13/24 18:46		
13C8-PFOSA (S)	86	%.	25-150	1	06/12/24 06:52	06/13/24 18:46		
d5-EtFOSAA (S)	86	%.	25-150	1	06/12/24 06:52	06/13/24 18:46		
13C2-PFDoA (S)	105	%.	25-150	1	06/12/24 06:52	06/13/24 18:46		
d3-NMeFOSA (S)	13	%.	10-150	1	06/12/24 06:52	06/13/24 18:46		
d7-NMeFOSE (S)	67	%.	10-150	1	06/12/24 06:52	06/13/24 18:46		
13C2-PFTA (S)	86	%.	25-150	1	06/12/24 06:52	06/13/24 18:46		
d9-NEtFOSE (S)	56	%.	10-150	1	06/12/24 06:52	06/13/24 18:46		
d5-NEtFOSA (S)	9	%.	10-150	1	06/12/24 06:52	06/13/24 18:46		S0
13C2PFHxDA (S)	63	%.	25-150	1	06/12/24 06:52	06/13/24 18:46		
13C5-PFHxA (S)	111	%.	25-150	1	06/12/24 06:52	06/13/24 18:46		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-SW-CREEK03-DB-240523 **Lab ID: 10694182024** Collected: 05/23/24 15:05 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 125.369 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	3.7	1	06/12/24 06:52	06/13/24 18:53	763051-92-9	
4:2 FTS	ND	ng/L	3.7	1	06/12/24 06:52	06/13/24 18:53	757124-72-4	
6:2 FTS	ND	ng/L	3.8	1	06/12/24 06:52	06/13/24 18:53	27619-97-2	
8:2 FTS	ND	ng/L	3.8	1	06/12/24 06:52	06/13/24 18:53	39108-34-4	
9Cl-PF3ONS	ND	ng/L	3.7	1	06/12/24 06:52	06/13/24 18:53	756426-58-1	
ADONA	ND	ng/L	3.8	1	06/12/24 06:52	06/13/24 18:53	919005-14-4	
HFPO-DA	ND	ng/L	4.0	1	06/12/24 06:52	06/13/24 18:53	13252-13-6	
NEtFOSAA	ND	ng/L	4.0	1	06/12/24 06:52	06/13/24 18:53	2991-50-6	
NEtFOSA	ND	ng/L	4.0	1	06/12/24 06:52	06/13/24 18:53	4151-50-2	
NEtFOSE	ND	ng/L	4.0	1	06/12/24 06:52	06/13/24 18:53	1691-99-2	
NMeFOSAA	ND	ng/L	4.0	1	06/12/24 06:52	06/13/24 18:53	2355-31-9	
NMeFOSA	ND	ng/L	4.0	1	06/12/24 06:52	06/13/24 18:53	31506-32-8	
NMeFOSE	ND	ng/L	4.0	1	06/12/24 06:52	06/13/24 18:53	24448-09-7	
PFBS	ND	ng/L	3.5	1	06/12/24 06:52	06/13/24 18:53	375-73-5	
PFDA	ND	ng/L	4.0	1	06/12/24 06:52	06/13/24 18:53	335-76-2	
PFHxA	ND	ng/L	4.0	1	06/12/24 06:52	06/13/24 18:53	307-24-4	
PFBA	**13.1**	ng/L	4.0	1	06/12/24 06:52	06/13/24 18:53	375-22-4	
PFDS	ND	ng/L	3.8	1	06/12/24 06:52	06/13/24 18:53	335-77-3	
PFDoS	ND	ng/L	3.9	1	06/12/24 06:52	06/13/24 18:53	79780-39-5	
PFHpS	ND	ng/L	3.8	1	06/12/24 06:52	06/13/24 18:53	375-92-8	
PFNS	ND	ng/L	3.8	1	06/12/24 06:52	06/13/24 18:53	68259-12-1	
PFOSA	ND	ng/L	4.0	1	06/12/24 06:52	06/13/24 18:53	754-91-6	
PFPeA	ND	ng/L	4.0	1	06/12/24 06:52	06/13/24 18:53	2706-90-3	
PFPeS	ND	ng/L	3.7	1	06/12/24 06:52	06/13/24 18:53	2706-91-4	
PFDoA	ND	ng/L	4.0	1	06/12/24 06:52	06/13/24 18:53	307-55-1	
PFHpA	ND	ng/L	4.0	1	06/12/24 06:52	06/13/24 18:53	375-85-9	
PFHxS	**37.9**	ng/L	3.6	1	06/12/24 06:52	06/13/24 18:53	355-46-4	
PFNA	ND	ng/L	4.0	1	06/12/24 06:52	06/13/24 18:53	375-95-1	
PFOS	**39.7**	ng/L	3.7	1	06/12/24 06:52	06/13/24 18:53	1763-23-1	
PFOA	ND	ng/L	4.0	1	06/12/24 06:52	06/13/24 18:53	335-67-1	
PFTeDA	ND	ng/L	4.0	1	06/12/24 06:52	06/13/24 18:53	376-06-7	
PFTrDA	ND	ng/L	4.0	1	06/12/24 06:52	06/13/24 18:53	72629-94-8	
PFUnA	ND	ng/L	4.0	1	06/12/24 06:52	06/13/24 18:53	2058-94-8	
Surrogates								
13C4-PFBA (S)	79	%.	25-150	1	06/12/24 06:52	06/13/24 18:53		
13C5-PFPeA (S)	80	%.	25-150	1	06/12/24 06:52	06/13/24 18:53		
13C3-PFBS (S)	94	%.	25-150	1	06/12/24 06:52	06/13/24 18:53		
13C24:2FTS (S)	77	%.	25-150	1	06/12/24 06:52	06/13/24 18:53		
13C3HFPO-DA (S)	79	%.	25-150	1	06/12/24 06:52	06/13/24 18:53		
13C4-PFHpA (S)	97	%.	25-150	1	06/12/24 06:52	06/13/24 18:53		
13C3-PFHxS (S)	98	%.	25-150	1	06/12/24 06:52	06/13/24 18:53		
13C26:2FTS (S)	89	%.	25-150	1	06/12/24 06:52	06/13/24 18:53		
13C8-PFOA (S)	98	%.	25-150	1	06/12/24 06:52	06/13/24 18:53		
13C8-PFOS (S)	98	%.	25-150	1	06/12/24 06:52	06/13/24 18:53		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-SW-CREEK03-DB-240523 **Lab ID: 10694182024** Collected: 05/23/24 15:05 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Initial Volume/Weight: 125.369 mL Final Volume/Weight: 1 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C9-PFNA (S)	102	%.	25-150	1	06/12/24 06:52	06/13/24 18:53		
13C6-PFDA (S)	110	%.	25-150	1	06/12/24 06:52	06/13/24 18:53		
13C28:2FTS (S)	99	%.	25-150	1	06/12/24 06:52	06/13/24 18:53		
d3-MeFOSAA (S)	66	%.	25-150	1	06/12/24 06:52	06/13/24 18:53		
13C7-PFUdA (S)	97	%.	25-150	1	06/12/24 06:52	06/13/24 18:53		
13C8-PFOSA (S)	70	%.	25-150	1	06/12/24 06:52	06/13/24 18:53		
d5-EtFOSAA (S)	64	%.	25-150	1	06/12/24 06:52	06/13/24 18:53		
13C2-PFDoA (S)	86	%.	25-150	1	06/12/24 06:52	06/13/24 18:53		
d3-NMeFOSA (S)	52	%.	10-150	1	06/12/24 06:52	06/13/24 18:53		
d7-NMeFOSE (S)	52	%.	10-150	1	06/12/24 06:52	06/13/24 18:53		
13C2-PFTA (S)	73	%.	25-150	1	06/12/24 06:52	06/13/24 18:53		
d9-NEtFOSE (S)	48	%.	10-150	1	06/12/24 06:52	06/13/24 18:53		
d5-NEtFOSA (S)	46	%.	10-150	1	06/12/24 06:52	06/13/24 18:53		
13C2PFHxDA (S)	67	%.	25-150	1	06/12/24 06:52	06/13/24 18:53		
13C5-PFHxA (S)	96	%.	25-150	1	06/12/24 06:52	06/13/24 18:53		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-SW-CREEK02-0-240523 **Lab ID: 10694182025** Collected: 05/23/24 14:25 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 241.314 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	1.9	1	06/12/24 16:44	06/13/24 23:29	763051-92-9	
4:2 FTS	ND	ng/L	1.9	1	06/12/24 16:44	06/13/24 23:29	757124-72-4	
6:2 FTS	ND	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:29	27619-97-2	
8:2 FTS	ND	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:29	39108-34-4	
9Cl-PF3ONS	ND	ng/L	1.9	1	06/12/24 16:44	06/13/24 23:29	756426-58-1	
ADONA	ND	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:29	919005-14-4	
HFPO-DA	ND	ng/L	2.1	1	06/12/24 16:44	06/13/24 23:29	13252-13-6	
NEtFOSAA	ND	ng/L	2.1	1	06/12/24 16:44	06/13/24 23:29	2991-50-6	
NEtFOSA	ND	ng/L	2.1	1	06/12/24 16:44	06/13/24 23:29	4151-50-2	
NEtFOSE	ND	ng/L	2.1	1	06/12/24 16:44	06/13/24 23:29	1691-99-2	
NMeFOSAA	ND	ng/L	2.1	1	06/12/24 16:44	06/13/24 23:29	2355-31-9	
NMeFOSA	ND	ng/L	2.1	1	06/12/24 16:44	06/13/24 23:29	31506-32-8	
NMeFOSE	ND	ng/L	2.1	1	06/12/24 16:44	06/13/24 23:29	24448-09-7	
PFBS	ND	ng/L	1.8	1	06/12/24 16:44	06/13/24 23:29	375-73-5	
PFDA	ND	ng/L	2.1	1	06/12/24 16:44	06/13/24 23:29	335-76-2	
PFHxA	ND	ng/L	2.1	1	06/12/24 16:44	06/13/24 23:29	307-24-4	
PFBA	**6.9**	ng/L	2.1	1	06/12/24 16:44	06/13/24 23:29	375-22-4	
PFDS	ND	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:29	335-77-3	
PFDoS	ND	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:29	79780-39-5	
PFHpS	ND	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:29	375-92-8	
PFNS	ND	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:29	68259-12-1	
PFOSA	ND	ng/L	2.1	1	06/12/24 16:44	06/13/24 23:29	754-91-6	
PFPeA	ND	ng/L	2.1	1	06/12/24 16:44	06/13/24 23:29	2706-90-3	
PFPeS	ND	ng/L	1.9	1	06/12/24 16:44	06/13/24 23:29	2706-91-4	
PFDoA	ND	ng/L	2.1	1	06/12/24 16:44	06/13/24 23:29	307-55-1	
PFHpA	ND	ng/L	2.1	1	06/12/24 16:44	06/13/24 23:29	375-85-9	
PFHxS	**25.1**	ng/L	1.9	1	06/12/24 16:44	06/13/24 23:29	355-46-4	
PFNA	ND	ng/L	2.1	1	06/12/24 16:44	06/13/24 23:29	375-95-1	
PFOS	**12.8**	ng/L	1.9	1	06/12/24 16:44	06/13/24 23:29	1763-23-1	
PFOA	**2.4**	ng/L	2.1	1	06/12/24 16:44	06/13/24 23:29	335-67-1	
PFTeDA	ND	ng/L	2.1	1	06/12/24 16:44	06/13/24 23:29	376-06-7	
PFTrDA	ND	ng/L	2.1	1	06/12/24 16:44	06/13/24 23:29	72629-94-8	
PFUnA	ND	ng/L	2.1	1	06/12/24 16:44	06/13/24 23:29	2058-94-8	
Surrogates								
13C4-PFBA (S)	79	%.	25-150	1	06/12/24 16:44	06/13/24 23:29		1M
13C5-PFPeA (S)	84	%.	25-150	1	06/12/24 16:44	06/13/24 23:29		
13C3-PFBS (S)	95	%.	25-150	1	06/12/24 16:44	06/13/24 23:29		
13C24:2FTS (S)	63	%.	25-150	1	06/12/24 16:44	06/13/24 23:29		
13C3HFPO-DA (S)	84	%.	25-150	1	06/12/24 16:44	06/13/24 23:29		
13C4-PFHpA (S)	99	%.	25-150	1	06/12/24 16:44	06/13/24 23:29		
13C3-PFHxS (S)	98	%.	25-150	1	06/12/24 16:44	06/13/24 23:29		
13C26:2FTS (S)	64	%.	25-150	1	06/12/24 16:44	06/13/24 23:29		
13C8-PFOA (S)	99	%.	25-150	1	06/12/24 16:44	06/13/24 23:29		
13C8-PFOS (S)	94	%.	25-150	1	06/12/24 16:44	06/13/24 23:29		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-SW-CREEK02-0-240523 **Lab ID: 10694182025** Collected: 05/23/24 14:25 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 241.314 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
Surrogates								
13C9-PFNA (S)	103	%.	25-150	1	06/12/24 16:44	06/13/24 23:29		
13C6-PFDA (S)	106	%.	25-150	1	06/12/24 16:44	06/13/24 23:29		
13C28:2FTS (S)	94	%.	25-150	1	06/12/24 16:44	06/13/24 23:29		
d3-MeFOSAA (S)	89	%.	25-150	1	06/12/24 16:44	06/13/24 23:29		
13C7-PFUdA (S)	94	%.	25-150	1	06/12/24 16:44	06/13/24 23:29		
13C8-PFOSA (S)	39	%.	25-150	1	06/12/24 16:44	06/13/24 23:29		
d5-EtFOSAA (S)	89	%.	25-150	1	06/12/24 16:44	06/13/24 23:29		
13C2-PFDoA (S)	86	%.	25-150	1	06/12/24 16:44	06/13/24 23:29		
d3-NMeFOSA (S)	1	%.	10-150	1	06/12/24 16:44	06/13/24 23:29		S0
d7-NMeFOSE (S)	14	%.	10-150	1	06/12/24 16:44	06/13/24 23:29		
13C2-PFTA (S)	75	%.	25-150	1	06/12/24 16:44	06/13/24 23:29		
d9-NEtFOSE (S)	13	%.	10-150	1	06/12/24 16:44	06/13/24 23:29		
d5-NEtFOSA (S)	2	%.	10-150	1	06/12/24 16:44	06/13/24 23:29		S0
13C2PFHxDA (S)	54	%.	25-150	1	06/12/24 16:44	06/13/24 23:29		
13C5-PFHxA (S)	99	%.	25-150	1	06/12/24 16:44	06/13/24 23:29		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-SW-CREEK03-0-240523 **Lab ID: 10694182026** Collected: 05/23/24 15:00 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 48.181 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	9.8	1	06/12/24 16:44	06/13/24 23:36	763051-92-9	
4:2 FTS	ND	ng/L	9.7	1	06/12/24 16:44	06/13/24 23:36	757124-72-4	
6:2 FTS	ND	ng/L	9.9	1	06/12/24 16:44	06/13/24 23:36	27619-97-2	
8:2 FTS	ND	ng/L	10.0	1	06/12/24 16:44	06/13/24 23:36	39108-34-4	
9Cl-PF3ONS	ND	ng/L	9.7	1	06/12/24 16:44	06/13/24 23:36	756426-58-1	
ADONA	ND	ng/L	9.8	1	06/12/24 16:44	06/13/24 23:36	919005-14-4	
HFPO-DA	ND	ng/L	10.4	1	06/12/24 16:44	06/13/24 23:36	13252-13-6	
NEtFOSAA	ND	ng/L	10.4	1	06/12/24 16:44	06/13/24 23:36	2991-50-6	
NEtFOSA	ND	ng/L	10.4	1	06/12/24 16:44	06/13/24 23:36	4151-50-2	
NEtFOSE	ND	ng/L	10.4	1	06/12/24 16:44	06/13/24 23:36	1691-99-2	
NMeFOSAA	ND	ng/L	10.4	1	06/12/24 16:44	06/13/24 23:36	2355-31-9	
NMeFOSA	ND	ng/L	10.4	1	06/12/24 16:44	06/13/24 23:36	31506-32-8	
NMeFOSE	ND	ng/L	10.4	1	06/12/24 16:44	06/13/24 23:36	24448-09-7	
PFBS	ND	ng/L	9.2	1	06/12/24 16:44	06/13/24 23:36	375-73-5	
PFDA	ND	ng/L	10.4	1	06/12/24 16:44	06/13/24 23:36	335-76-2	
PFHxA	ND	ng/L	10.4	1	06/12/24 16:44	06/13/24 23:36	307-24-4	
PFBA	**12.0**	ng/L	10.4	1	06/12/24 16:44	06/13/24 23:36	375-22-4	
PFDS	ND	ng/L	10.0	1	06/12/24 16:44	06/13/24 23:36	335-77-3	
PFDoS	ND	ng/L	10.1	1	06/12/24 16:44	06/13/24 23:36	79780-39-5	
PFHpS	ND	ng/L	9.9	1	06/12/24 16:44	06/13/24 23:36	375-92-8	
PFNS	ND	ng/L	10	1	06/12/24 16:44	06/13/24 23:36	68259-12-1	
PFOSA	ND	ng/L	10.4	1	06/12/24 16:44	06/13/24 23:36	754-91-6	
PFPeA	ND	ng/L	10.4	1	06/12/24 16:44	06/13/24 23:36	2706-90-3	
PFPeS	ND	ng/L	9.8	1	06/12/24 16:44	06/13/24 23:36	2706-91-4	
PFDoA	ND	ng/L	10.4	1	06/12/24 16:44	06/13/24 23:36	307-55-1	
PFHpA	ND	ng/L	10.4	1	06/12/24 16:44	06/13/24 23:36	375-85-9	
PFHxS	**38.1**	ng/L	9.4	1	06/12/24 16:44	06/13/24 23:36	355-46-4	
PFNA	ND	ng/L	10.4	1	06/12/24 16:44	06/13/24 23:36	375-95-1	
PFOS	**37.1**	ng/L	9.6	1	06/12/24 16:44	06/13/24 23:36	1763-23-1	
PFOA	ND	ng/L	10.4	1	06/12/24 16:44	06/13/24 23:36	335-67-1	
PFTeDA	ND	ng/L	10.4	1	06/12/24 16:44	06/13/24 23:36	376-06-7	
PFTrDA	ND	ng/L	10.4	1	06/12/24 16:44	06/13/24 23:36	72629-94-8	
PFUnA	ND	ng/L	10.4	1	06/12/24 16:44	06/13/24 23:36	2058-94-8	
Surrogates								
13C4-PFBA (S)	77	%.	25-150	1	06/12/24 16:44	06/13/24 23:36		1M
13C5-PFPeA (S)	80	%.	25-150	1	06/12/24 16:44	06/13/24 23:36		
13C3-PFBS (S)	87	%.	25-150	1	06/12/24 16:44	06/13/24 23:36		
13C24:2FTS (S)	54	%.	25-150	1	06/12/24 16:44	06/13/24 23:36		
13C3HFPO-DA (S)	82	%.	25-150	1	06/12/24 16:44	06/13/24 23:36		
13C4-PFHpA (S)	89	%.	25-150	1	06/12/24 16:44	06/13/24 23:36		
13C3-PFHxS (S)	87	%.	25-150	1	06/12/24 16:44	06/13/24 23:36		
13C26:2FTS (S)	64	%.	25-150	1	06/12/24 16:44	06/13/24 23:36		
13C8-PFOA (S)	90	%.	25-150	1	06/12/24 16:44	06/13/24 23:36		
13C8-PFOS (S)	93	%.	25-150	1	06/12/24 16:44	06/13/24 23:36		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-SW-CREEK03-0-240523 **Lab ID: 10694182026** Collected: 05/23/24 15:00 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 48.181 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
Surrogates								
13C9-PFNA (S)	95	%.	25-150	1	06/12/24 16:44	06/13/24 23:36		
13C6-PFDA (S)	93	%.	25-150	1	06/12/24 16:44	06/13/24 23:36		
13C28:2FTS (S)	63	%.	25-150	1	06/12/24 16:44	06/13/24 23:36		
d3-MeFOSAA (S)	80	%.	25-150	1	06/12/24 16:44	06/13/24 23:36		
13C7-PFUdA (S)	91	%.	25-150	1	06/12/24 16:44	06/13/24 23:36		
13C8-PFOSA (S)	66	%.	25-150	1	06/12/24 16:44	06/13/24 23:36		
d5-EtFOSAA (S)	80	%.	25-150	1	06/12/24 16:44	06/13/24 23:36		
13C2-PFDoA (S)	90	%.	25-150	1	06/12/24 16:44	06/13/24 23:36		
d3-NMeFOSA (S)	8	%.	10-150	1	06/12/24 16:44	06/13/24 23:36		S0
d7-NMeFOSE (S)	42	%.	10-150	1	06/12/24 16:44	06/13/24 23:36		
13C2-PFTA (S)	84	%.	25-150	1	06/12/24 16:44	06/13/24 23:36		
d9-NEtFOSE (S)	41	%.	10-150	1	06/12/24 16:44	06/13/24 23:36		
d5-NEtFOSA (S)	7	%.	10-150	1	06/12/24 16:44	06/13/24 23:36		S0
13C2PFHxDA (S)	73	%.	25-150	1	06/12/24 16:44	06/13/24 23:36		
13C5-PFHxA (S)	89	%.	25-150	1	06/12/24 16:44	06/13/24 23:36		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-SW-CREEK04-0-240523 **Lab ID: 10694182027** Collected: 05/23/24 14:45 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 247.109 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	1.9	1	06/12/24 16:44	06/13/24 23:43	763051-92-9	
4:2 FTS	ND	ng/L	1.9	1	06/12/24 16:44	06/13/24 23:43	757124-72-4	
6:2 FTS	ND	ng/L	1.9	1	06/12/24 16:44	06/13/24 23:43	27619-97-2	
8:2 FTS	ND	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:43	39108-34-4	
9Cl-PF3ONS	ND	ng/L	1.9	1	06/12/24 16:44	06/13/24 23:43	756426-58-1	
ADONA	ND	ng/L	1.9	1	06/12/24 16:44	06/13/24 23:43	919005-14-4	
HFPO-DA	ND	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:43	13252-13-6	
NEtFOSAA	ND	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:43	2991-50-6	
NEtFOSA	ND	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:43	4151-50-2	
NEtFOSE	ND	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:43	1691-99-2	
NMeFOSAA	ND	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:43	2355-31-9	
NMeFOSA	ND	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:43	31506-32-8	
NMeFOSE	ND	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:43	24448-09-7	
PFBS	**2.3**	ng/L	1.8	1	06/12/24 16:44	06/13/24 23:43	375-73-5	
PFDA	ND	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:43	335-76-2	
PFHxA	ND	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:43	307-24-4	
PFBA	**9.0**	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:43	375-22-4	
PFDS	ND	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:43	335-77-3	
PFDoS	ND	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:43	79780-39-5	
PFHpS	ND	ng/L	1.9	1	06/12/24 16:44	06/13/24 23:43	375-92-8	
PFNS	ND	ng/L	1.9	1	06/12/24 16:44	06/13/24 23:43	68259-12-1	
PFOSA	ND	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:43	754-91-6	
PFPeA	ND	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:43	2706-90-3	
PFPeS	**2.0**	ng/L	1.9	1	06/12/24 16:44	06/13/24 23:43	2706-91-4	
PFDoA	ND	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:43	307-55-1	
PFHpA	ND	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:43	375-85-9	
PFHxS	**30.0**	ng/L	1.8	1	06/12/24 16:44	06/13/24 23:43	355-46-4	
PFNA	ND	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:43	375-95-1	
PFOS	**9.2**	ng/L	1.9	1	06/12/24 16:44	06/13/24 23:43	1763-23-1	
PFOA	**2.5**	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:43	335-67-1	
PFTeDA	ND	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:43	376-06-7	
PFTrDA	ND	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:43	72629-94-8	
PFUnA	ND	ng/L	2.0	1	06/12/24 16:44	06/13/24 23:43	2058-94-8	
Surrogates								
13C4-PFBA (S)	88	%.	25-150	1	06/12/24 16:44	06/13/24 23:43		1M
13C5-PFPeA (S)	94	%.	25-150	1	06/12/24 16:44	06/13/24 23:43		
13C3-PFBS (S)	106	%.	25-150	1	06/12/24 16:44	06/13/24 23:43		
13C24:2FTS (S)	58	%.	25-150	1	06/12/24 16:44	06/13/24 23:43		
13C3HFPO-DA (S)	98	%.	25-150	1	06/12/24 16:44	06/13/24 23:43		
13C4-PFHpA (S)	107	%.	25-150	1	06/12/24 16:44	06/13/24 23:43		
13C3-PFHxS (S)	108	%.	25-150	1	06/12/24 16:44	06/13/24 23:43		
13C26:2FTS (S)	68	%.	25-150	1	06/12/24 16:44	06/13/24 23:43		
13C8-PFOA (S)	109	%.	25-150	1	06/12/24 16:44	06/13/24 23:43		
13C8-PFOS (S)	105	%.	25-150	1	06/12/24 16:44	06/13/24 23:43		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-SW-CREEK04-0-240523 **Lab ID: 10694182027** Collected: 05/23/24 14:45 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 247.109 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
Surrogates								
13C9-PFNA (S)	115	%.	25-150	1	06/12/24 16:44	06/13/24 23:43		
13C6-PFDA (S)	118	%.	25-150	1	06/12/24 16:44	06/13/24 23:43		
13C28:2FTS (S)	114	%.	25-150	1	06/12/24 16:44	06/13/24 23:43		
d3-MeFOSAA (S)	90	%.	25-150	1	06/12/24 16:44	06/13/24 23:43		
13C7-PFUdA (S)	105	%.	25-150	1	06/12/24 16:44	06/13/24 23:43		
13C8-PFOSA (S)	30	%.	25-150	1	06/12/24 16:44	06/13/24 23:43		
d5-EtFOSAA (S)	91	%.	25-150	1	06/12/24 16:44	06/13/24 23:43		
13C2-PFDoA (S)	97	%.	25-150	1	06/12/24 16:44	06/13/24 23:43		
d3-NMeFOSA (S)	0	%.	10-150	1	06/12/24 16:44	06/13/24 23:43		S0
d7-NMeFOSE (S)	6	%.	10-150	1	06/12/24 16:44	06/13/24 23:43		S0
13C2-PFTA (S)	80	%.	25-150	1	06/12/24 16:44	06/13/24 23:43		
d9-NEtFOSE (S)	5	%.	10-150	1	06/12/24 16:44	06/13/24 23:43		S0
d5-NEtFOSA (S)	0	%.	10-150	1	06/12/24 16:44	06/13/24 23:43		S0
13C2PFHxDA (S)	37	%.	25-150	1	06/12/24 16:44	06/13/24 23:43		
13C5-PFHxA (S)	109	%.	25-150	1	06/12/24 16:44	06/13/24 23:43		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-PZ0-0-240523 **Lab ID: 10694182028** Collected: 05/23/24 09:25 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 50.663 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	9.3	1	06/12/24 16:44	06/13/24 23:51	763051-92-9	
4:2 FTS	ND	ng/L	9.2	1	06/12/24 16:44	06/13/24 23:51	757124-72-4	
6:2 FTS	ND	ng/L	9.4	1	06/12/24 16:44	06/13/24 23:51	27619-97-2	
8:2 FTS	ND	ng/L	9.5	1	06/12/24 16:44	06/13/24 23:51	39108-34-4	
9Cl-PF3ONS	ND	ng/L	9.2	1	06/12/24 16:44	06/13/24 23:51	756426-58-1	
ADONA	ND	ng/L	9.3	1	06/12/24 16:44	06/13/24 23:51	919005-14-4	
HFPO-DA	ND	ng/L	9.9	1	06/12/24 16:44	06/13/24 23:51	13252-13-6	
NEtFOSAA	ND	ng/L	9.9	1	06/12/24 16:44	06/13/24 23:51	2991-50-6	
NEtFOSA	ND	ng/L	9.9	1	06/12/24 16:44	06/13/24 23:51	4151-50-2	
NEtFOSE	ND	ng/L	9.9	1	06/12/24 16:44	06/13/24 23:51	1691-99-2	
NMeFOSAA	ND	ng/L	9.9	1	06/12/24 16:44	06/13/24 23:51	2355-31-9	
NMeFOSA	ND	ng/L	9.9	1	06/12/24 16:44	06/13/24 23:51	31506-32-8	
NMeFOSE	ND	ng/L	9.9	1	06/12/24 16:44	06/13/24 23:51	24448-09-7	
PFBS	ND	ng/L	8.7	1	06/12/24 16:44	06/13/24 23:51	375-73-5	
PFDA	ND	ng/L	9.9	1	06/12/24 16:44	06/13/24 23:51	335-76-2	
PFHxA	ND	ng/L	9.9	1	06/12/24 16:44	06/13/24 23:51	307-24-4	
PFBA	**10.2**	ng/L	9.9	1	06/12/24 16:44	06/13/24 23:51	375-22-4	
PFDS	ND	ng/L	9.5	1	06/12/24 16:44	06/13/24 23:51	335-77-3	
PFDoS	ND	ng/L	9.6	1	06/12/24 16:44	06/13/24 23:51	79780-39-5	
PFHpS	ND	ng/L	9.4	1	06/12/24 16:44	06/13/24 23:51	375-92-8	
PFNS	ND	ng/L	9.5	1	06/12/24 16:44	06/13/24 23:51	68259-12-1	
PFOSA	ND	ng/L	9.9	1	06/12/24 16:44	06/13/24 23:51	754-91-6	
PFPeA	ND	ng/L	9.9	1	06/12/24 16:44	06/13/24 23:51	2706-90-3	
PFPeS	ND	ng/L	9.3	1	06/12/24 16:44	06/13/24 23:51	2706-91-4	
PFDoA	ND	ng/L	9.9	1	06/12/24 16:44	06/13/24 23:51	307-55-1	
PFHpA	ND	ng/L	9.9	1	06/12/24 16:44	06/13/24 23:51	375-85-9	
PFHxS	**15.2**	ng/L	9.0	1	06/12/24 16:44	06/13/24 23:51	355-46-4	
PFNA	ND	ng/L	9.9	1	06/12/24 16:44	06/13/24 23:51	375-95-1	
PFOS	ND	ng/L	9.1	1	06/12/24 16:44	06/13/24 23:51	1763-23-1	
PFOA	ND	ng/L	9.9	1	06/12/24 16:44	06/13/24 23:51	335-67-1	
PFTeDA	ND	ng/L	9.9	1	06/12/24 16:44	06/13/24 23:51	376-06-7	
PFTrDA	ND	ng/L	9.9	1	06/12/24 16:44	06/13/24 23:51	72629-94-8	
PFUnA	ND	ng/L	9.9	1	06/12/24 16:44	06/13/24 23:51	2058-94-8	
Surrogates								
13C4-PFBA (S)	88	%.	25-150	1	06/12/24 16:44	06/13/24 23:51		1M
13C5-PFPeA (S)	97	%.	25-150	1	06/12/24 16:44	06/13/24 23:51		
13C3-PFBS (S)	102	%.	25-150	1	06/12/24 16:44	06/13/24 23:51		
13C24:2FTS (S)	39	%.	25-150	1	06/12/24 16:44	06/13/24 23:51		
13C3HFPO-DA (S)	98	%.	25-150	1	06/12/24 16:44	06/13/24 23:51		
13C4-PFHpA (S)	101	%.	25-150	1	06/12/24 16:44	06/13/24 23:51		
13C3-PFHxS (S)	102	%.	25-150	1	06/12/24 16:44	06/13/24 23:51		
13C26:2FTS (S)	47	%.	25-150	1	06/12/24 16:44	06/13/24 23:51		
13C8-PFOA (S)	101	%.	25-150	1	06/12/24 16:44	06/13/24 23:51		
13C8-PFOS (S)	102	%.	25-150	1	06/12/24 16:44	06/13/24 23:51		
13C9-PFNA (S)	110	%.	25-150	1	06/12/24 16:44	06/13/24 23:51		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-PZ0-0-240523 **Lab ID: 10694182028** Collected: 05/23/24 09:25 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 50.663 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
Surrogates								
13C6-PFDA (S)	103	%.	25-150	1	06/12/24 16:44	06/13/24 23:51		
13C28:2FTS (S)	53	%.	25-150	1	06/12/24 16:44	06/13/24 23:51		
d3-MeFOSAA (S)	79	%.	25-150	1	06/12/24 16:44	06/13/24 23:51		
13C7-PFUdA (S)	100	%.	25-150	1	06/12/24 16:44	06/13/24 23:51		
13C8-PFOSA (S)	79	%.	25-150	1	06/12/24 16:44	06/13/24 23:51		
d5-EtFOSAA (S)	80	%.	25-150	1	06/12/24 16:44	06/13/24 23:51		
13C2-PFDoA (S)	105	%.	25-150	1	06/12/24 16:44	06/13/24 23:51		
d3-NMeFOSA (S)	11	%.	10-150	1	06/12/24 16:44	06/13/24 23:51		
d7-NMeFOSE (S)	59	%.	10-150	1	06/12/24 16:44	06/13/24 23:51		
13C2-PFTA (S)	96	%.	25-150	1	06/12/24 16:44	06/13/24 23:51		
d9-NEtFOSE (S)	55	%.	10-150	1	06/12/24 16:44	06/13/24 23:51		
d5-NEtFOSA (S)	7	%.	10-150	1	06/12/24 16:44	06/13/24 23:51		S0
13C2PFHxDA (S)	82	%.	25-150	1	06/12/24 16:44	06/13/24 23:51		
13C5-PFHxA (S)	100	%.	25-150	1	06/12/24 16:44	06/13/24 23:51		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-PZ10-0-240523 **Lab ID: 10694182029** Collected: 05/23/24 14:30 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 51.34 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	9.2	1	06/12/24 16:44	06/13/24 23:58	763051-92-9	
4:2 FTS	ND	ng/L	9.1	1	06/12/24 16:44	06/13/24 23:58	757124-72-4	
6:2 FTS	ND	ng/L	9.3	1	06/12/24 16:44	06/13/24 23:58	27619-97-2	
8:2 FTS	ND	ng/L	9.4	1	06/12/24 16:44	06/13/24 23:58	39108-34-4	
9Cl-PF3ONS	ND	ng/L	9.1	1	06/12/24 16:44	06/13/24 23:58	756426-58-1	
ADONA	ND	ng/L	9.2	1	06/12/24 16:44	06/13/24 23:58	919005-14-4	
HFPO-DA	ND	ng/L	9.7	1	06/12/24 16:44	06/13/24 23:58	13252-13-6	
NEtFOSAA	ND	ng/L	9.7	1	06/12/24 16:44	06/13/24 23:58	2991-50-6	
NEtFOSA	ND	ng/L	9.7	1	06/12/24 16:44	06/13/24 23:58	4151-50-2	
NEtFOSE	ND	ng/L	9.7	1	06/12/24 16:44	06/13/24 23:58	1691-99-2	
NMeFOSAA	ND	ng/L	9.7	1	06/12/24 16:44	06/13/24 23:58	2355-31-9	
NMeFOSA	ND	ng/L	9.7	1	06/12/24 16:44	06/13/24 23:58	31506-32-8	
NMeFOSE	ND	ng/L	9.7	1	06/12/24 16:44	06/13/24 23:58	24448-09-7	
PFBS	**11.1**	ng/L	8.6	1	06/12/24 16:44	06/13/24 23:58	375-73-5	
PFDA	ND	ng/L	9.7	1	06/12/24 16:44	06/13/24 23:58	335-76-2	
PFHxA	**20.1**	ng/L	9.7	1	06/12/24 16:44	06/13/24 23:58	307-24-4	
PFBA	**32.8**	ng/L	9.7	1	06/12/24 16:44	06/13/24 23:58	375-22-4	
PFDS	ND	ng/L	9.4	1	06/12/24 16:44	06/13/24 23:58	335-77-3	
PFDoS	ND	ng/L	9.4	1	06/12/24 16:44	06/13/24 23:58	79780-39-5	
PFHpS	ND	ng/L	9.3	1	06/12/24 16:44	06/13/24 23:58	375-92-8	
PFNS	ND	ng/L	9.3	1	06/12/24 16:44	06/13/24 23:58	68259-12-1	
PFOSA	ND	ng/L	9.7	1	06/12/24 16:44	06/13/24 23:58	754-91-6	
PFPeA	ND	ng/L	9.7	1	06/12/24 16:44	06/13/24 23:58	2706-90-3	
PFPeS	**18.6**	ng/L	9.2	1	06/12/24 16:44	06/13/24 23:58	2706-91-4	
PFDoA	ND	ng/L	9.7	1	06/12/24 16:44	06/13/24 23:58	307-55-1	
PFHpA	ND	ng/L	9.7	1	06/12/24 16:44	06/13/24 23:58	375-85-9	
PFHxS	**361**	ng/L	8.9	1	06/12/24 16:44	06/13/24 23:58	355-46-4	
PFNA	ND	ng/L	9.7	1	06/12/24 16:44	06/13/24 23:58	375-95-1	
PFOS	**13.7**	ng/L	9.0	1	06/12/24 16:44	06/13/24 23:58	1763-23-1	
PFOA	**33.0**	ng/L	9.7	1	06/12/24 16:44	06/13/24 23:58	335-67-1	
PFTeDA	ND	ng/L	9.7	1	06/12/24 16:44	06/13/24 23:58	376-06-7	
PFTrDA	ND	ng/L	9.7	1	06/12/24 16:44	06/13/24 23:58	72629-94-8	
PFUnA	ND	ng/L	9.7	1	06/12/24 16:44	06/13/24 23:58	2058-94-8	
Surrogates								
13C4-PFBA (S)	90	%.	25-150	1	06/12/24 16:44	06/13/24 23:58		1M
13C5-PFPeA (S)	93	%.	25-150	1	06/12/24 16:44	06/13/24 23:58		
13C3-PFBS (S)	102	%.	25-150	1	06/12/24 16:44	06/13/24 23:58		
13C24:2FTS (S)	64	%.	25-150	1	06/12/24 16:44	06/13/24 23:58		
13C3HFPO-DA (S)	87	%.	25-150	1	06/12/24 16:44	06/13/24 23:58		
13C4-PFHpA (S)	105	%.	25-150	1	06/12/24 16:44	06/13/24 23:58		
13C3-PFHxS (S)	104	%.	25-150	1	06/12/24 16:44	06/13/24 23:58		
13C26:2FTS (S)	84	%.	25-150	1	06/12/24 16:44	06/13/24 23:58		
13C8-PFOA (S)	106	%.	25-150	1	06/12/24 16:44	06/13/24 23:58		
13C8-PFOS (S)	106	%.	25-150	1	06/12/24 16:44	06/13/24 23:58		
13C9-PFNA (S)	110	%.	25-150	1	06/12/24 16:44	06/13/24 23:58		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-GW-PZ10-0-240523 **Lab ID: 10694182029** Collected: 05/23/24 14:30 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 51.34 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
Surrogates								
13C6-PFDA (S)	104	%.	25-150	1	06/12/24 16:44	06/13/24 23:58		
13C28:2FTS (S)	78	%.	25-150	1	06/12/24 16:44	06/13/24 23:58		
d3-MeFOSAA (S)	79	%.	25-150	1	06/12/24 16:44	06/13/24 23:58		
13C7-PFUdA (S)	101	%.	25-150	1	06/12/24 16:44	06/13/24 23:58		
13C8-PFOSA (S)	33	%.	25-150	1	06/12/24 16:44	06/13/24 23:58		
d5-EtFOSAA (S)	81	%.	25-150	1	06/12/24 16:44	06/13/24 23:58		
13C2-PFDoA (S)	85	%.	25-150	1	06/12/24 16:44	06/13/24 23:58		
d3-NMeFOSA (S)	0	%.	10-150	1	06/12/24 16:44	06/13/24 23:58		S0
d7-NMeFOSE (S)	5	%.	10-150	1	06/12/24 16:44	06/13/24 23:58		S0
13C2-PFTA (S)	42	%.	25-150	1	06/12/24 16:44	06/13/24 23:58		
d9-NEtFOSE (S)	6	%.	10-150	1	06/12/24 16:44	06/13/24 23:58		S0
d5-NEtFOSA (S)	0	%.	10-150	1	06/12/24 16:44	06/13/24 23:58		S0
13C2PFHxDA (S)	6	%.	25-150	1	06/12/24 16:44	06/13/24 23:58		S0
13C5-PFHxA (S)	104	%.	25-150	1	06/12/24 16:44	06/13/24 23:58		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-W-FB1-FB-240523 **Lab ID: 10694182030** Collected: 05/23/24 09:25 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 254.725 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	1.8	1	06/12/24 16:44	06/14/24 00:05	763051-92-9	
4:2 FTS	ND	ng/L	1.8	1	06/12/24 16:44	06/14/24 00:05	757124-72-4	
6:2 FTS	ND	ng/L	1.9	1	06/12/24 16:44	06/14/24 00:05	27619-97-2	
8:2 FTS	ND	ng/L	1.9	1	06/12/24 16:44	06/14/24 00:05	39108-34-4	
9Cl-PF3ONS	ND	ng/L	1.8	1	06/12/24 16:44	06/14/24 00:05	756426-58-1	
ADONA	ND	ng/L	1.9	1	06/12/24 16:44	06/14/24 00:05	919005-14-4	
HFPO-DA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:05	13252-13-6	
NEtFOSAA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:05	2991-50-6	
NEtFOSA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:05	4151-50-2	
NEtFOSE	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:05	1691-99-2	
NMeFOSAA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:05	2355-31-9	
NMeFOSA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:05	31506-32-8	
NMeFOSE	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:05	24448-09-7	
PFBS	ND	ng/L	1.7	1	06/12/24 16:44	06/14/24 00:05	375-73-5	
PFDA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:05	335-76-2	
PFHxA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:05	307-24-4	
PFBA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:05	375-22-4	
PFDS	ND	ng/L	1.9	1	06/12/24 16:44	06/14/24 00:05	335-77-3	
PFDoS	ND	ng/L	1.9	1	06/12/24 16:44	06/14/24 00:05	79780-39-5	
PFHpS	ND	ng/L	1.9	1	06/12/24 16:44	06/14/24 00:05	375-92-8	
PFNS	ND	ng/L	1.9	1	06/12/24 16:44	06/14/24 00:05	68259-12-1	
PFOSA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:05	754-91-6	
PFPeA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:05	2706-90-3	
PFPeS	ND	ng/L	1.8	1	06/12/24 16:44	06/14/24 00:05	2706-91-4	
PFDoA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:05	307-55-1	
PFHpA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:05	375-85-9	
PFHxS	ND	ng/L	1.8	1	06/12/24 16:44	06/14/24 00:05	355-46-4	
PFNA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:05	375-95-1	
PFOS	ND	ng/L	1.8	1	06/12/24 16:44	06/14/24 00:05	1763-23-1	
PFOA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:05	335-67-1	
PFTeDA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:05	376-06-7	
PFTrDA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:05	72629-94-8	
PFUnA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:05	2058-94-8	
Surrogates								
13C4-PFBA (S)	105	%.	25-150	1	06/12/24 16:44	06/14/24 00:05		1M
13C5-PFPeA (S)	108	%.	25-150	1	06/12/24 16:44	06/14/24 00:05		
13C3-PFBS (S)	106	%.	25-150	1	06/12/24 16:44	06/14/24 00:05		
13C24:2FTS (S)	47	%.	25-150	1	06/12/24 16:44	06/14/24 00:05		
13C3HFPO-DA (S)	96	%.	25-150	1	06/12/24 16:44	06/14/24 00:05		
13C4-PFHpA (S)	107	%.	25-150	1	06/12/24 16:44	06/14/24 00:05		
13C3-PFHxS (S)	107	%.	25-150	1	06/12/24 16:44	06/14/24 00:05		
13C26:2FTS (S)	52	%.	25-150	1	06/12/24 16:44	06/14/24 00:05		
13C8-PFOA (S)	107	%.	25-150	1	06/12/24 16:44	06/14/24 00:05		
13C8-PFOS (S)	99	%.	25-150	1	06/12/24 16:44	06/14/24 00:05		
13C9-PFNA (S)	111	%.	25-150	1	06/12/24 16:44	06/14/24 00:05		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-W-FB1-FB-240523 **Lab ID: 10694182030** Collected: 05/23/24 09:25 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 254.725 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
Surrogates								
13C6-PFDA (S)	112	%.	25-150	1	06/12/24 16:44	06/14/24 00:05		
13C28:2FTS (S)	155	%.	25-150	1	06/12/24 16:44	06/14/24 00:05		S3
d3-MeFOSAA (S)	86	%.	25-150	1	06/12/24 16:44	06/14/24 00:05		
13C7-PFUdA (S)	102	%.	25-150	1	06/12/24 16:44	06/14/24 00:05		
13C8-PFOSA (S)	85	%.	25-150	1	06/12/24 16:44	06/14/24 00:05		
d5-EtFOSAA (S)	86	%.	25-150	1	06/12/24 16:44	06/14/24 00:05		
13C2-PFDoA (S)	102	%.	25-150	1	06/12/24 16:44	06/14/24 00:05		
d3-NMeFOSA (S)	37	%.	10-150	1	06/12/24 16:44	06/14/24 00:05		
d7-NMeFOSE (S)	80	%.	10-150	1	06/12/24 16:44	06/14/24 00:05		
13C2-PFTA (S)	97	%.	25-150	1	06/12/24 16:44	06/14/24 00:05		
d9-NEtFOSE (S)	79	%.	10-150	1	06/12/24 16:44	06/14/24 00:05		
d5-NEtFOSA (S)	35	%.	10-150	1	06/12/24 16:44	06/14/24 00:05		
13C2PFHxDA (S)	77	%.	25-150	1	06/12/24 16:44	06/14/24 00:05		
13C5-PFHxA (S)	107	%.	25-150	1	06/12/24 16:44	06/14/24 00:05		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-W-EB1-EB-240523 **Lab ID: 10694182031** Collected: 05/23/24 09:20 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 253.773 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	1.9	1	06/12/24 16:44	06/14/24 00:12	763051-92-9	
4:2 FTS	ND	ng/L	1.8	1	06/12/24 16:44	06/14/24 00:12	757124-72-4	
6:2 FTS	ND	ng/L	1.9	1	06/12/24 16:44	06/14/24 00:12	27619-97-2	
8:2 FTS	ND	ng/L	1.9	1	06/12/24 16:44	06/14/24 00:12	39108-34-4	
9Cl-PF3ONS	ND	ng/L	1.8	1	06/12/24 16:44	06/14/24 00:12	756426-58-1	
ADONA	ND	ng/L	1.9	1	06/12/24 16:44	06/14/24 00:12	919005-14-4	
HFPO-DA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:12	13252-13-6	
NEtFOSAA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:12	2991-50-6	
NEtFOSA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:12	4151-50-2	
NEtFOSE	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:12	1691-99-2	
NMeFOSAA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:12	2355-31-9	
NMeFOSA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:12	31506-32-8	
NMeFOSE	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:12	24448-09-7	
PFBS	ND	ng/L	1.7	1	06/12/24 16:44	06/14/24 00:12	375-73-5	
PFDA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:12	335-76-2	
PFHxA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:12	307-24-4	
PFBA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:12	375-22-4	
PFDS	ND	ng/L	1.9	1	06/12/24 16:44	06/14/24 00:12	335-77-3	
PFDoS	ND	ng/L	1.9	1	06/12/24 16:44	06/14/24 00:12	79780-39-5	
PFHpS	ND	ng/L	1.9	1	06/12/24 16:44	06/14/24 00:12	375-92-8	
PFNS	ND	ng/L	1.9	1	06/12/24 16:44	06/14/24 00:12	68259-12-1	
PFOSA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:12	754-91-6	
PFPeA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:12	2706-90-3	
PFPeS	ND	ng/L	1.9	1	06/12/24 16:44	06/14/24 00:12	2706-91-4	
PFDoA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:12	307-55-1	
PFHpA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:12	375-85-9	
PFHxS	ND	ng/L	1.8	1	06/12/24 16:44	06/14/24 00:12	355-46-4	
PFNA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:12	375-95-1	
PFOS	ND	ng/L	1.8	1	06/12/24 16:44	06/14/24 00:12	1763-23-1	
PFOA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:12	335-67-1	
PFTeDA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:12	376-06-7	
PFTrDA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:12	72629-94-8	
PFUnA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:12	2058-94-8	
Surrogates								
13C4-PFBA (S)	107	%.	25-150	1	06/12/24 16:44	06/14/24 00:12		1M
13C5-PFPeA (S)	110	%.	25-150	1	06/12/24 16:44	06/14/24 00:12		
13C3-PFBS (S)	108	%.	25-150	1	06/12/24 16:44	06/14/24 00:12		
13C24:2FTS (S)	48	%.	25-150	1	06/12/24 16:44	06/14/24 00:12		
13C3HFPO-DA (S)	101	%.	25-150	1	06/12/24 16:44	06/14/24 00:12		
13C4-PFHpA (S)	106	%.	25-150	1	06/12/24 16:44	06/14/24 00:12		
13C3-PFHxS (S)	107	%.	25-150	1	06/12/24 16:44	06/14/24 00:12		
13C26:2FTS (S)	54	%.	25-150	1	06/12/24 16:44	06/14/24 00:12		
13C8-PFOA (S)	107	%.	25-150	1	06/12/24 16:44	06/14/24 00:12		
13C8-PFOS (S)	104	%.	25-150	1	06/12/24 16:44	06/14/24 00:12		
13C9-PFNA (S)	111	%.	25-150	1	06/12/24 16:44	06/14/24 00:12		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-W-EB1-EB-240523 **Lab ID: 10694182031** Collected: 05/23/24 09:20 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 253.773 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
Surrogates								
13C6-PFDA (S)	116	%.	25-150	1	06/12/24 16:44	06/14/24 00:12		
13C28:2FTS (S)	221	%.	25-150	1	06/12/24 16:44	06/14/24 00:12		S3
d3-MeFOSAA (S)	91	%.	25-150	1	06/12/24 16:44	06/14/24 00:12		
13C7-PFUdA (S)	102	%.	25-150	1	06/12/24 16:44	06/14/24 00:12		
13C8-PFOSA (S)	86	%.	25-150	1	06/12/24 16:44	06/14/24 00:12		
d5-EtFOSAA (S)	93	%.	25-150	1	06/12/24 16:44	06/14/24 00:12		
13C2-PFDoA (S)	99	%.	25-150	1	06/12/24 16:44	06/14/24 00:12		
d3-NMeFOSA (S)	18	%.	10-150	1	06/12/24 16:44	06/14/24 00:12		
d7-NMeFOSE (S)	77	%.	10-150	1	06/12/24 16:44	06/14/24 00:12		
13C2-PFTA (S)	102	%.	25-150	1	06/12/24 16:44	06/14/24 00:12		
d9-NEtFOSE (S)	69	%.	10-150	1	06/12/24 16:44	06/14/24 00:12		
d5-NEtFOSA (S)	16	%.	10-150	1	06/12/24 16:44	06/14/24 00:12		
13C2PFHxDA (S)	69	%.	25-150	1	06/12/24 16:44	06/14/24 00:12		
13C5-PFHxA (S)	107	%.	25-150	1	06/12/24 16:44	06/14/24 00:12		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-W-TB1-TB-240523 **Lab ID: 10694182032** Collected: 05/23/24 00:00 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178							
	Initial Volume/Weight: 248.242 mL Final Volume/Weight: 1 mL							
	Pace Analytical Services - Minneapolis							
11Cl-PF3OUdS	ND	ng/L	1.9	1	06/12/24 16:44	06/14/24 00:20	763051-92-9	
4:2 FTS	ND	ng/L	1.9	1	06/12/24 16:44	06/14/24 00:20	757124-72-4	
6:2 FTS	ND	ng/L	1.9	1	06/12/24 16:44	06/14/24 00:20	27619-97-2	
8:2 FTS	ND	ng/L	1.9	1	06/12/24 16:44	06/14/24 00:20	39108-34-4	
9Cl-PF3ONS	ND	ng/L	1.9	1	06/12/24 16:44	06/14/24 00:20	756426-58-1	
ADONA	ND	ng/L	1.9	1	06/12/24 16:44	06/14/24 00:20	919005-14-4	
HFPO-DA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:20	13252-13-6	
NEtFOSAA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:20	2991-50-6	
NEtFOSA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:20	4151-50-2	
NEtFOSE	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:20	1691-99-2	
NMeFOSAA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:20	2355-31-9	
NMeFOSA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:20	31506-32-8	
NMeFOSE	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:20	24448-09-7	
PFBS	ND	ng/L	1.8	1	06/12/24 16:44	06/14/24 00:20	375-73-5	
PFDA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:20	335-76-2	
PFHxA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:20	307-24-4	
PFBA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:20	375-22-4	
PFDS	ND	ng/L	1.9	1	06/12/24 16:44	06/14/24 00:20	335-77-3	
PFDoS	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:20	79780-39-5	
PFHpS	ND	ng/L	1.9	1	06/12/24 16:44	06/14/24 00:20	375-92-8	
PFNS	ND	ng/L	1.9	1	06/12/24 16:44	06/14/24 00:20	68259-12-1	
PFOSA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:20	754-91-6	
PFPeA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:20	2706-90-3	
PFPeS	ND	ng/L	1.9	1	06/12/24 16:44	06/14/24 00:20	2706-91-4	
PFDoA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:20	307-55-1	
PFHpA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:20	375-85-9	
PFHxS	ND	ng/L	1.8	1	06/12/24 16:44	06/14/24 00:20	355-46-4	
PFNA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:20	375-95-1	
PFOS	ND	ng/L	1.9	1	06/12/24 16:44	06/14/24 00:20	1763-23-1	
PFOA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:20	335-67-1	
PFTeDA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:20	376-06-7	
PFTrDA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:20	72629-94-8	
PFUnA	ND	ng/L	2.0	1	06/12/24 16:44	06/14/24 00:20	2058-94-8	
Surrogates								
13C4-PFBA (S)	109	%.	25-150	1	06/12/24 16:44	06/14/24 00:20		
13C5-PFPeA (S)	113	%.	25-150	1	06/12/24 16:44	06/14/24 00:20		
13C3-PFBS (S)	111	%.	25-150	1	06/12/24 16:44	06/14/24 00:20		
13C24:2FTS (S)	52	%.	25-150	1	06/12/24 16:44	06/14/24 00:20		
13C3HFPO-DA (S)	98	%.	25-150	1	06/12/24 16:44	06/14/24 00:20		
13C4-PFHpA (S)	109	%.	25-150	1	06/12/24 16:44	06/14/24 00:20		
13C3-PFHxS (S)	110	%.	25-150	1	06/12/24 16:44	06/14/24 00:20		
13C26:2FTS (S)	54	%.	25-150	1	06/12/24 16:44	06/14/24 00:20		
13C8-PFOA (S)	108	%.	25-150	1	06/12/24 16:44	06/14/24 00:20		
13C8-PFOS (S)	97	%.	25-150	1	06/12/24 16:44	06/14/24 00:20		
13C9-PFNA (S)	110	%.	25-150	1	06/12/24 16:44	06/14/24 00:20		

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ANALYTICAL RESULTS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Sample: MEWI-W-TB1-TB-240523 **Lab ID: 10694182032** Collected: 05/23/24 00:00 Received: 05/23/24 18:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Initial Volume/Weight: 248.242 mL Final Volume/Weight: 1 mL Pace Analytical Services - Minneapolis							
Surrogates								
13C6-PFDA (S)	108	%.	25-150	1	06/12/24 16:44	06/14/24 00:20		
13C28:2FTS (S)	147	%.	25-150	1	06/12/24 16:44	06/14/24 00:20		
d3-MeFOSAA (S)	75	%.	25-150	1	06/12/24 16:44	06/14/24 00:20		
13C7-PFUdA (S)	87	%.	25-150	1	06/12/24 16:44	06/14/24 00:20		
13C8-PFOSA (S)	87	%.	25-150	1	06/12/24 16:44	06/14/24 00:20		
d5-EtFOSAA (S)	79	%.	25-150	1	06/12/24 16:44	06/14/24 00:20		
13C2-PFDoA (S)	83	%.	25-150	1	06/12/24 16:44	06/14/24 00:20		
d3-NMeFOSA (S)	66	%.	10-150	1	06/12/24 16:44	06/14/24 00:20		
d7-NMeFOSE (S)	82	%.	10-150	1	06/12/24 16:44	06/14/24 00:20		
13C2-PFTA (S)	81	%.	25-150	1	06/12/24 16:44	06/14/24 00:20		
d9-NEtFOSE (S)	82	%.	10-150	1	06/12/24 16:44	06/14/24 00:20		
d5-NEtFOSA (S)	69	%.	10-150	1	06/12/24 16:44	06/14/24 00:20		
13C2PFHxDA (S)	66	%.	25-150	1	06/12/24 16:44	06/14/24 00:20		
13C5-PFHxA (S)	109	%.	25-150	1	06/12/24 16:44	06/14/24 00:20		

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QUALITY CONTROL DATA

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

QC Batch: 947068
QC Batch Method: ENV-SOP-MIN4-0178
Analysis Method: ENV-SOP-MIN4-0178
Analysis Description: WI ID NPW
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10694182001, 10694182002, 10694182003, 10694182004

METHOD BLANK: 4955031
Matrix: Water
Associated Lab Samples: 10694182001, 10694182002, 10694182003, 10694182004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ng/L	ND	1.8	05/31/24 07:32	
4:2 FTS	ng/L	ND	1.8	05/31/24 07:32	
6:2 FTS	ng/L	ND	1.9	05/31/24 07:32	
8:2 FTS	ng/L	ND	1.9	05/31/24 07:32	
9Cl-PF3ONS	ng/L	ND	1.8	05/31/24 07:32	
ADONA	ng/L	ND	1.8	05/31/24 07:32	
HFPO-DA	ng/L	ND	2.0	05/31/24 07:32	
NEtFOSA	ng/L	ND	2.0	05/31/24 07:32	
NEtFOSAA	ng/L	ND	2.0	05/31/24 07:32	
NEtFOSE	ng/L	ND	2.0	05/31/24 07:32	
NMeFOSA	ng/L	ND	2.0	05/31/24 07:32	
NMeFOSAA	ng/L	ND	2.0	05/31/24 07:32	
NMeFOSE	ng/L	ND	2.0	05/31/24 07:32	
PFBA	ng/L	ND	2.0	05/31/24 07:32	
PFBS	ng/L	ND	1.7	05/31/24 07:32	
PFDA	ng/L	ND	2.0	05/31/24 07:32	
PFDoA	ng/L	ND	2.0	05/31/24 07:32	
PFDoS	ng/L	ND	1.9	05/31/24 07:32	
PFDS	ng/L	ND	1.9	05/31/24 07:32	
PFHpA	ng/L	ND	2.0	05/31/24 07:32	
PFHpS	ng/L	ND	1.9	05/31/24 07:32	
PFHxA	ng/L	ND	2.0	05/31/24 07:32	
PFHxS	ng/L	ND	1.8	05/31/24 07:32	
PFNA	ng/L	ND	2.0	05/31/24 07:32	
PFNS	ng/L	ND	1.9	05/31/24 07:32	
PFOA	ng/L	ND	2.0	05/31/24 07:32	
PFOS	ng/L	ND	1.8	05/31/24 07:32	
PFOSA	ng/L	ND	2.0	05/31/24 07:32	
PFPeA	ng/L	ND	2.0	05/31/24 07:32	
PFPeS	ng/L	ND	1.8	05/31/24 07:32	
PFTeDA	ng/L	ND	2.0	05/31/24 07:32	
PFTrDA	ng/L	ND	2.0	05/31/24 07:32	
PFUnA	ng/L	ND	2.0	05/31/24 07:32	
13C2-PFDoA (S)	%.	95	25-150	05/31/24 07:32	
13C2-PFTA (S)	%.	84	25-150	05/31/24 07:32	
13C24:2FTS (S)	%.	87	25-150	05/31/24 07:32	
13C26:2FTS (S)	%.	87	25-150	05/31/24 07:32	
13C28:2FTS (S)	%.	96	25-150	05/31/24 07:32	
13C2PFHxDA (S)	%.	63	25-150	05/31/24 07:32	
13C3-PFBS (S)	%.	100	25-150	05/31/24 07:32	

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QUALITY CONTROL DATA

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

METHOD BLANK: 4955031 Matrix: Water
Associated Lab Samples: 10694182001, 10694182002, 10694182003, 10694182004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C3-PFHxS (S)	%.	101	25-150	05/31/24 07:32	
13C3HFPO-DA (S)	%.	104	25-150	05/31/24 07:32	
13C4-PFBA (S)	%.	98	25-150	05/31/24 07:32	
13C4-PFHpA (S)	%.	98	25-150	05/31/24 07:32	
13C5-PFHxA (S)	%.	100	25-150	05/31/24 07:32	
13C5-PFPeA (S)	%.	101	25-150	05/31/24 07:32	
13C6-PFDA (S)	%.	100	25-150	05/31/24 07:32	
13C7-PFUdA (S)	%.	95	25-150	05/31/24 07:32	
13C8-PFOA (S)	%.	99	25-150	05/31/24 07:32	
13C8-PFOS (S)	%.	98	25-150	05/31/24 07:32	
13C8-PFOSA (S)	%.	86	25-150	05/31/24 07:32	
13C9-PFNA (S)	%.	96	25-150	05/31/24 07:32	
d3-MeFOSAA (S)	%.	82	25-150	05/31/24 07:32	
d3-NMeFOSA (S)	%.	26	20-150	05/31/24 07:32	
d5-EtFOSAA (S)	%.	87	25-150	05/31/24 07:32	
d5-NEtFOSA (S)	%.	26	20-150	05/31/24 07:32	
d7-NMeFOSE (S)	%.	79	20-150	05/31/24 07:32	
d9-NEtFOSE (S)	%.	77	20-150	05/31/24 07:32	

LABORATORY CONTROL SAMPLE & LCSD: 4955032 4955033

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
11Cl-PF3OUdS	ng/L	3.7	3.2	3.5	86	92	50-150	11	30	
4:2 FTS	ng/L	3.7	3.3	3.4	90	89	50-150	3	30	
6:2 FTS	ng/L	3.7	3.4	3.7	92	95	50-150	7	30	
8:2 FTS	ng/L	3.8	4.2	3.4	112	88	50-150	20	30	
9Cl-PF3ONS	ng/L	3.7	3.3	3.3	89	87	50-150	2	30	
ADONA	ng/L	3.7	3.4	3.5	93	91	50-150	1	30	
HFPO-DA	ng/L	3.9	3.7	3.6	94	90	50-150	1	30	
NEtFOSA	ng/L	3.9	3.7	3.4	96	84	50-150	8	30	
NEtFOSAA	ng/L	3.9	3.4	3.3	86	82	50-150	1	30	
NEtFOSE	ng/L	3.9	3.9	3.7	100	91	50-150	6	30	
NMeFOSA	ng/L	3.9	3.6	3.5	91	86	50-150	2	30	
NMeFOSAA	ng/L	3.9	3.8	3.9	98	95	50-150	1	30	
NMeFOSE	ng/L	3.9	3.7	3.7	95	90	50-150	2	30	
PFBA	ng/L	3.9	3.7	3.7	94	91	50-150	0	30	
PFBS	ng/L	3.5	3.3	3.3	94	91	50-150	0	30	
PFDA	ng/L	3.9	3.6	3.7	92	92	50-150	3	30	
PFDoA	ng/L	3.9	3.5	3.6	89	87	50-150	2	30	
PFDoS	ng/L	3.8	3.2	3.4	83	85	50-150	6	30	
PFDS	ng/L	3.8	3.0	3.9	79	99	50-150	27	30	
PFHpA	ng/L	3.9	3.6	3.7	91	90	50-150	3	30	
PFHpS	ng/L	3.7	3.3	3.4	88	86	50-150	2	30	
PFHxA	ng/L	3.9	3.7	3.6	93	89	50-150	0	30	

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QUALITY CONTROL DATA

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

LABORATORY CONTROL SAMPLE & LCSD: 4955032 4955033

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PFHxS	ng/L	3.6	3.3	3.3	91	89	50-150	1	30	
PFNA	ng/L	3.9	3.5	3.6	89	88	50-150	3	30	
PFNS	ng/L	3.8	3.2	3.6	85	92	50-150	12	30	
PFOA	ng/L	3.9	3.5	3.7	90	90	50-150	3	30	
PFOS	ng/L	3.6	3.5	3.7	96	99	50-150	7	30	
PFOSA	ng/L	3.9	3.9	3.8	100	93	50-150	3	30	
PFPeA	ng/L	3.9	3.7	3.7	96	91	50-150	1	30	
PFPeS	ng/L	3.7	3.6	3.5	98	91	50-150	3	30	
PFTeDA	ng/L	3.9	3.5	3.6	88	87	50-150	3	30	
PFTrDA	ng/L	3.9	3.5	3.7	91	92	50-150	5	30	
PFUnA	ng/L	3.9	3.3	3.6	84	87	50-150	7	30	
13C2-PFDoA (S)	%.				101	95	25-150			
13C2-PFTA (S)	%.				85	90	25-150			
13C24:2FTS (S)	%.				84	84	25-150			
13C26:2FTS (S)	%.				82	79	25-150			
13C28:2FTS (S)	%.				68	84	25-150			
13C2PFHxDA (S)	%.				61	70	25-150			
13C3-PFBS (S)	%.				98	94	25-150			
13C3-PFHxS (S)	%.				94	92	25-150			
13C3HFPO-DA (S)	%.				99	96	25-150			
13C4-PFBA (S)	%.				93	93	25-150			
13C4-PFHpA (S)	%.				94	93	25-150			
13C5-PFHxA (S)	%.				97	94	25-150			
13C5-PFPeA (S)	%.				96	94	25-150			
13C6-PFDA (S)	%.				95	94	25-150			
13C7-PFUdA (S)	%.				97	92	25-150			
13C8-PFOA (S)	%.				95	92	25-150			
13C8-PFOS (S)	%.				98	91	25-150			
13C8-PFOSA (S)	%.				78	74	25-150			
13C9-PFNA (S)	%.				95	94	25-150			
d3-MeFOSAA (S)	%.				77	76	25-150			
d3-NMeFOSA (S)	%.				56	12	20-150			S0
d5-EtFOSAA (S)	%.				82	85	25-150			
d5-NEtFOSA (S)	%.				51	9	20-150			S0
d7-NMeFOSE (S)	%.				80	66	20-150			
d9-NEtFOSE (S)	%.				78	62	20-150			

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QUALITY CONTROL DATA

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

QC Batch: 950057
QC Batch Method: ENV-SOP-MIN4-0178
Analysis Method: ENV-SOP-MIN4-0178
Analysis Description: WI ID NPW
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10694182005, 10694182006, 10694182007, 10694182008, 10694182009, 10694182011, 10694182012, 10694182013, 10694182014, 10694182015, 10694182016, 10694182017, 10694182018, 10694182019, 10694182020, 10694182021, 10694182022, 10694182023, 10694182024

METHOD BLANK: 4968868
Matrix: Water

Associated Lab Samples: 10694182005, 10694182006, 10694182007, 10694182008, 10694182009, 10694182011, 10694182012, 10694182013, 10694182014, 10694182015, 10694182016, 10694182017, 10694182018, 10694182019, 10694182020, 10694182021, 10694182022, 10694182023, 10694182024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ng/L	ND	1.8	06/13/24 15:49	
4:2 FTS	ng/L	ND	1.8	06/13/24 15:49	
6:2 FTS	ng/L	ND	1.9	06/13/24 15:49	
8:2 FTS	ng/L	ND	1.9	06/13/24 15:49	
9Cl-PF3ONS	ng/L	ND	1.8	06/13/24 15:49	
ADONA	ng/L	ND	1.8	06/13/24 15:49	
HFPO-DA	ng/L	ND	1.9	06/13/24 15:49	
NEtFOSA	ng/L	ND	1.9	06/13/24 15:49	
NEtFOSAA	ng/L	ND	1.9	06/13/24 15:49	
NEtFOSE	ng/L	ND	1.9	06/13/24 15:49	
NMeFOSA	ng/L	ND	1.9	06/13/24 15:49	
NMeFOSAA	ng/L	ND	1.9	06/13/24 15:49	
NMeFOSE	ng/L	ND	1.9	06/13/24 15:49	
PFBA	ng/L	ND	1.9	06/13/24 15:49	
PFBS	ng/L	ND	1.7	06/13/24 15:49	
PFDA	ng/L	ND	1.9	06/13/24 15:49	
PFDoA	ng/L	ND	1.9	06/13/24 15:49	
PFDoS	ng/L	ND	1.9	06/13/24 15:49	
PFDS	ng/L	ND	1.9	06/13/24 15:49	
PFHpA	ng/L	ND	1.9	06/13/24 15:49	
PFHpS	ng/L	ND	1.9	06/13/24 15:49	
PFHxA	ng/L	ND	1.9	06/13/24 15:49	
PFHxS	ng/L	ND	1.8	06/13/24 15:49	
PFNA	ng/L	ND	1.9	06/13/24 15:49	
PFNS	ng/L	ND	1.9	06/13/24 15:49	
PFOA	ng/L	ND	1.9	06/13/24 15:49	
PFOS	ng/L	ND	1.8	06/13/24 15:49	
PFOSA	ng/L	ND	1.9	06/13/24 15:49	
PFPeA	ng/L	ND	1.9	06/13/24 15:49	
PFPeS	ng/L	ND	1.8	06/13/24 15:49	
PFTeDA	ng/L	ND	1.9	06/13/24 15:49	
PFTrDA	ng/L	ND	1.9	06/13/24 15:49	
PFUnA	ng/L	ND	1.9	06/13/24 15:49	
13C2-PFDoA (S)	%.	111	25-150	06/13/24 15:49	
13C2-PFTA (S)	%.	103	25-150	06/13/24 15:49	
13C24:2FTS (S)	%.	95	25-150	06/13/24 15:49	
13C26:2FTS (S)	%.	98	25-150	06/13/24 15:49	

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QUALITY CONTROL DATA

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

METHOD BLANK: 4968868 Matrix: Water

Associated Lab Samples: 10694182005, 10694182006, 10694182007, 10694182008, 10694182009, 10694182011, 10694182012, 10694182013, 10694182014, 10694182015, 10694182016, 10694182017, 10694182018, 10694182019, 10694182020, 10694182021, 10694182022, 10694182023, 10694182024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C28:2FTS (S)	%.	104	25-150	06/13/24 15:49	
13C2PFHxDA (S)	%.	74	25-150	06/13/24 15:49	
13C3-PFBS (S)	%.	110	25-150	06/13/24 15:49	
13C3-PFHxS (S)	%.	108	25-150	06/13/24 15:49	
13C3HFPO-DA (S)	%.	98	25-150	06/13/24 15:49	
13C4-PFBA (S)	%.	106	25-150	06/13/24 15:49	
13C4-PFHpA (S)	%.	109	25-150	06/13/24 15:49	
13C5-PFHxA (S)	%.	110	25-150	06/13/24 15:49	
13C5-PFPeA (S)	%.	111	25-150	06/13/24 15:49	
13C6-PFDA (S)	%.	114	25-150	06/13/24 15:49	
13C7-PFUdA (S)	%.	107	25-150	06/13/24 15:49	
13C8-PFOA (S)	%.	112	25-150	06/13/24 15:49	
13C8-PFOS (S)	%.	106	25-150	06/13/24 15:49	
13C8-PFOSA (S)	%.	93	25-150	06/13/24 15:49	
13C9-PFNA (S)	%.	115	25-150	06/13/24 15:49	
d3-MeFOSAA (S)	%.	99	25-150	06/13/24 15:49	
d3-NMeFOSA (S)	%.	54	20-150	06/13/24 15:49	
d5-EtFOSAA (S)	%.	100	25-150	06/13/24 15:49	
d5-NEtFOSA (S)	%.	56	20-150	06/13/24 15:49	
d7-NMeFOSE (S)	%.	98	20-150	06/13/24 15:49	
d9-NEtFOSE (S)	%.	94	20-150	06/13/24 15:49	

LABORATORY CONTROL SAMPLE & LCSD: 4968869 4968870

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
11Cl-PF3OUdS	ng/L	3.7	3.1	3.2	84	86	50-150	5	30	
4:2 FTS	ng/L	3.6	3.1	3.2	85	87	50-150	4	30	
6:2 FTS	ng/L	3.7	3.0	3.2	80	85	50-150	9	30	
8:2 FTS	ng/L	3.7	3.4	2.9	91	76	50-150	16	30	
9Cl-PF3ONS	ng/L	3.6	3.2	3.1	88	82	50-150	4	30	
ADONA	ng/L	3.7	3.2	3.2	88	85	50-150	0	30	
HFPO-DA	ng/L	3.9	3.5	3.6	89	90	50-150	3	30	
NEtFOSA	ng/L	3.9	3.3	3.5	84	88	50-150	7	30	
NEtFOSAA	ng/L	3.9	3.3	3.4	85	86	50-150	4	30	
NEtFOSE	ng/L	3.9	3.4	3.5	88	87	50-150	1	30	
NMeFOSA	ng/L	3.9	3.4	3.9	88	97	50-150	13	30	
NMeFOSAA	ng/L	3.9	3.6	3.3	93	83	50-150	9	30	
NMeFOSE	ng/L	3.9	3.4	3.1	88	79	50-150	9	30	
PFBA	ng/L	3.9	3.3	3.4	85	85	50-150	2	30	
PFBS	ng/L	3.4	3.0	3.0	88	86	50-150	1	30	
PFDA	ng/L	3.9	3.2	3.3	83	83	50-150	2	30	
PFDoA	ng/L	3.9	3.3	3.4	86	84	50-150	0	30	

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QUALITY CONTROL DATA

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

LABORATORY CONTROL SAMPLE & LCSD: 4968869 4968870

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PFDoS	ng/L	3.8	2.9	3.3	78	84	50-150	11	30	
PFDS	ng/L	3.8	2.8	3.4	74	87	50-150	19	30	
PFHpA	ng/L	3.9	3.4	3.3	86	82	50-150	3	30	
PFHpS	ng/L	3.7	3.3	3.3	89	88	50-150	1	30	
PFHxA	ng/L	3.9	3.5	3.4	89	85	50-150	2	30	
PFHxS	ng/L	3.6	3.0	3.1	85	84	50-150	0	30	
PFNA	ng/L	3.9	3.2	3.2	81	81	50-150	3	30	
PFNS	ng/L	3.7	3.1	3.5	82	90	50-150	13	30	
PFOA	ng/L	3.9	3.4	3.5	86	87	50-150	4	30	
PFOS	ng/L	3.6	3.3	3.4	91	91	50-150	3	30	
PFOSA	ng/L	3.9	3.3	3.5	85	88	50-150	7	30	
PFPeA	ng/L	3.9	3.4	3.3	88	84	50-150	3	30	
PFPeS	ng/L	3.7	3.1	3.0	84	81	50-150	2	30	
PFTeDA	ng/L	3.9	3.4	3.2	87	80	50-150	6	30	
PFTrDA	ng/L	3.9	3.2	3.3	81	84	50-150	5	30	
PFUnA	ng/L	3.9	3.3	3.3	85	84	50-150	1	30	
13C2-PFDoA (S)	%.				106	105	25-150			
13C2-PFTA (S)	%.				98	103	25-150			
13C24:2FTS (S)	%.				97	94	25-150			
13C26:2FTS (S)	%.				102	92	25-150			
13C28:2FTS (S)	%.				95	104	25-150			
13C2PFHxDA (S)	%.				75	89	25-150			
13C3-PFBS (S)	%.				108	108	25-150			
13C3-PFHxS (S)	%.				110	108	25-150			
13C3HFPO-DA (S)	%.				94	94	25-150			
13C4-PFBA (S)	%.				101	100	25-150			
13C4-PFHpA (S)	%.				107	107	25-150			
13C5-PFHxA (S)	%.				107	105	25-150			
13C5-PFPeA (S)	%.				107	105	25-150			
13C6-PFDA (S)	%.				114	110	25-150			
13C7-PFUdA (S)	%.				108	103	25-150			
13C8-PFOA (S)	%.				110	108	25-150			
13C8-PFOS (S)	%.				106	101	25-150			
13C8-PFOSA (S)	%.				92	87	25-150			
13C9-PFNA (S)	%.				116	112	25-150			
d3-MeFOSAA (S)	%.				102	96	25-150			
d3-NMeFOSA (S)	%.				64	50	20-150			
d5-EtFOSAA (S)	%.				102	94	25-150			
d5-NEtFOSA (S)	%.				67	52	20-150			
d7-NMeFOSE (S)	%.				95	86	20-150			
d9-NEtFOSE (S)	%.				94	85	20-150			

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QUALITY CONTROL DATA

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

QC Batch: 950058
QC Batch Method: ENV-SOP-MIN4-0178
Analysis Method: ENV-SOP-MIN4-0178
Analysis Description: WI ID NPW
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10694182025, 10694182026, 10694182027, 10694182028, 10694182029, 10694182030, 10694182031, 10694182032

METHOD BLANK: 4968876
Matrix: Water
Associated Lab Samples: 10694182025, 10694182026, 10694182027, 10694182028, 10694182029, 10694182030, 10694182031, 10694182032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ng/L	ND	1.9	06/13/24 23:07	
4:2 FTS	ng/L	ND	1.9	06/13/24 23:07	
6:2 FTS	ng/L	ND	1.9	06/13/24 23:07	
8:2 FTS	ng/L	ND	2.0	06/13/24 23:07	
9Cl-PF3ONS	ng/L	ND	1.9	06/13/24 23:07	
ADONA	ng/L	ND	1.9	06/13/24 23:07	
HFPO-DA	ng/L	ND	2.0	06/13/24 23:07	
NEtFOSA	ng/L	ND	2.0	06/13/24 23:07	
NEtFOSAA	ng/L	ND	2.0	06/13/24 23:07	
NEtFOSE	ng/L	ND	2.0	06/13/24 23:07	
NMeFOSA	ng/L	ND	2.0	06/13/24 23:07	
NMeFOSAA	ng/L	ND	2.0	06/13/24 23:07	
NMeFOSE	ng/L	ND	2.0	06/13/24 23:07	
PFBA	ng/L	ND	2.0	06/13/24 23:07	
PFBS	ng/L	ND	1.8	06/13/24 23:07	
PFDA	ng/L	ND	2.0	06/13/24 23:07	
PFDoA	ng/L	ND	2.0	06/13/24 23:07	
PFDoS	ng/L	ND	2.0	06/13/24 23:07	
PFDS	ng/L	ND	2.0	06/13/24 23:07	
PFHpA	ng/L	ND	2.0	06/13/24 23:07	
PFHpS	ng/L	ND	1.9	06/13/24 23:07	
PFHxA	ng/L	ND	2.0	06/13/24 23:07	
PFHxS	ng/L	ND	1.9	06/13/24 23:07	
PFNA	ng/L	ND	2.0	06/13/24 23:07	
PFNS	ng/L	ND	2.0	06/13/24 23:07	
PFOA	ng/L	ND	2.0	06/13/24 23:07	
PFOS	ng/L	ND	1.9	06/13/24 23:07	
PFOSA	ng/L	ND	2.0	06/13/24 23:07	
PFPeA	ng/L	ND	2.0	06/13/24 23:07	
PFPeS	ng/L	ND	1.9	06/13/24 23:07	
PFTeDA	ng/L	ND	2.0	06/13/24 23:07	
PFTrDA	ng/L	ND	2.0	06/13/24 23:07	
PFUnA	ng/L	ND	2.0	06/13/24 23:07	
13C2-PFDoA (S)	%.	111	25-150	06/13/24 23:07	
13C2-PFTA (S)	%.	104	25-150	06/13/24 23:07	
13C24:2FTS (S)	%.	73	25-150	06/13/24 23:07	
13C26:2FTS (S)	%.	72	25-150	06/13/24 23:07	
13C28:2FTS (S)	%.	83	25-150	06/13/24 23:07	
13C2PFHxDA (S)	%.	80	25-150	06/13/24 23:07	

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QUALITY CONTROL DATA

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

METHOD BLANK: 4968876 Matrix: Water

Associated Lab Samples: 10694182025, 10694182026, 10694182027, 10694182028, 10694182029, 10694182030, 10694182031, 10694182032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C3-PFBS (S)	%.	116	25-150	06/13/24 23:07	
13C3-PFHxS (S)	%.	114	25-150	06/13/24 23:07	
13C3HFPO-DA (S)	%.	109	25-150	06/13/24 23:07	
13C4-PFBA (S)	%.	114	25-150	06/13/24 23:07	
13C4-PFHpA (S)	%.	116	25-150	06/13/24 23:07	
13C5-PFHxA (S)	%.	115	25-150	06/13/24 23:07	
13C5-PFPeA (S)	%.	118	25-150	06/13/24 23:07	
13C6-PFDA (S)	%.	119	25-150	06/13/24 23:07	
13C7-PFUdA (S)	%.	110	25-150	06/13/24 23:07	
13C8-PFOA (S)	%.	118	25-150	06/13/24 23:07	
13C8-PFOS (S)	%.	110	25-150	06/13/24 23:07	
13C8-PFOSA (S)	%.	98	25-150	06/13/24 23:07	
13C9-PFNA (S)	%.	123	25-150	06/13/24 23:07	
d3-MeFOSAA (S)	%.	101	25-150	06/13/24 23:07	
d3-NMeFOSA (S)	%.	48	20-150	06/13/24 23:07	
d5-EtFOSAA (S)	%.	110	25-150	06/13/24 23:07	
d5-NEtFOSA (S)	%.	41	20-150	06/13/24 23:07	
d7-NMeFOSE (S)	%.	99	20-150	06/13/24 23:07	
d9-NEtFOSE (S)	%.	94	20-150	06/13/24 23:07	

LABORATORY CONTROL SAMPLE & LCSD: 4968877 4968878

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
11Cl-PF3OUdS	ng/L	3.8	3.2	3.4	84	88	50-150	6	30	
4:2 FTS	ng/L	3.7	3.3	3.4	88	89	50-150	3	30	
6:2 FTS	ng/L	3.8	3.8	3.7	100	97	50-150	1	30	
8:2 FTS	ng/L	3.8	3.7	3.8	98	97	50-150	1	30	
9Cl-PF3ONS	ng/L	3.7	3.1	3.2	83	84	50-150	2	30	
ADONA	ng/L	3.8	3.5	3.4	93	90	50-150	2	30	
HFPO-DA	ng/L	4	3.6	3.7	90	91	50-150	3	30	
NEtFOSA	ng/L	4	3.3	3.9	83	97	50-150	17	30	
NEtFOSAA	ng/L	4	3.4	3.2	85	79	50-150	6	30	
NEtFOSE	ng/L	4	3.4	3.3	86	81	50-150	5	30	
NMeFOSA	ng/L	4	3.8	3.3	96	83	50-150	13	30	
NMeFOSAA	ng/L	4	3.5	3.8	88	93	50-150	7	30	
NMeFOSE	ng/L	4	3.7	3.4	94	83	50-150	11	30	
PFBA	ng/L	4	3.4	3.6	86	88	50-150	5	30	
PFBS	ng/L	3.5	3.1	3.1	88	87	50-150	1	30	
PFDA	ng/L	4	3.3	3.6	84	89	50-150	7	30	
PFDoA	ng/L	4	3.4	3.4	85	85	50-150	2	30	
PFDoS	ng/L	3.9	2.5	2.7	64	68	50-150	8	30	
PFDS	ng/L	3.8	3.3	3.2	85	82	50-150	2	30	
PFHpA	ng/L	4	3.5	3.4	88	85	50-150	1	30	

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QUALITY CONTROL DATA

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

LABORATORY CONTROL SAMPLE & LCSD: 4968877 4968878

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PFHpS	ng/L	3.8	3.2	3.5	85	90	50-150	7	30	
PFHxA	ng/L	4	3.6	3.6	91	89	50-150	0	30	
PFHxS	ng/L	3.6	3.2	3.2	87	87	50-150	2	30	
PFNA	ng/L	4	3.5	3.4	88	84	50-150	3	30	
PFNS	ng/L	3.8	3.1	3.2	83	83	50-150	2	30	
PFOA	ng/L	4	3.6	3.5	89	86	50-150	3	30	
PFOS	ng/L	3.7	3.4	3.5	92	94	50-150	4	30	
PFOSA	ng/L	4	3.5	3.7	89	91	50-150	3	30	
PFPeA	ng/L	4	3.5	3.5	88	86	50-150	1	30	
PFPeS	ng/L	3.7	3.2	3.2	85	85	50-150	1	30	
PFTeDA	ng/L	4	3.4	3.5	86	87	50-150	3	30	
PFTrDA	ng/L	4	3.3	3.4	83	83	50-150	2	30	
PFUnA	ng/L	4	3.3	3.5	83	87	50-150	6	30	
13C2-PFDoA (S)	%.				118	105	25-150			
13C2-PFTA (S)	%.				106	91	25-150			
13C24:2FTS (S)	%.				75	70	25-150			
13C26:2FTS (S)	%.				70	64	25-150			
13C28:2FTS (S)	%.				75	79	25-150			
13C2PFHxDA (S)	%.				86	65	25-150			
13C3-PFBS (S)	%.				119	108	25-150			
13C3-PFHxS (S)	%.				120	108	25-150			
13C3HFPO-DA (S)	%.				109	100	25-150			
13C4-PFBA (S)	%.				114	107	25-150			
13C4-PFHpA (S)	%.				118	108	25-150			
13C5-PFHxA (S)	%.				116	107	25-150			
13C5-PFPeA (S)	%.				119	111	25-150			
13C6-PFDA (S)	%.				121	110	25-150			
13C7-PFUdA (S)	%.				116	104	25-150			
13C8-PFOA (S)	%.				117	110	25-150			
13C8-PFOS (S)	%.				117	104	25-150			
13C8-PFOSA (S)	%.				99	72	25-150			
13C9-PFNA (S)	%.				121	114	25-150			
d3-MeFOSAA (S)	%.				101	96	25-150			
d3-NMeFOSA (S)	%.				54	2	20-150			S0
d5-EtFOSAA (S)	%.				102	99	25-150			
d5-NEtFOSA (S)	%.				48	2	20-150			S0
d7-NMeFOSE (S)	%.				99	32	20-150			
d9-NEtFOSE (S)	%.				95	30	20-150			

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

QC Batch: 951340
QC Batch Method: ENV-SOP-MIN4-0178
Analysis Method: ENV-SOP-MIN4-0178
Analysis Description: WI ID NPW
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10694182010

METHOD BLANK: 4975499
Matrix: Water
Associated Lab Samples: 10694182010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ng/L	ND	1.8	06/24/24 14:33	
4:2 FTS	ng/L	ND	1.8	06/24/24 14:33	
6:2 FTS	ng/L	ND	1.8	06/24/24 14:33	
8:2 FTS	ng/L	ND	1.9	06/24/24 14:33	
9Cl-PF3ONS	ng/L	ND	1.8	06/24/24 14:33	
ADONA	ng/L	ND	1.8	06/24/24 14:33	
HFPO-DA	ng/L	ND	1.9	06/24/24 14:33	
NEtFOSA	ng/L	ND	1.9	06/24/24 14:33	
NEtFOSAA	ng/L	ND	1.9	06/24/24 14:33	
NEtFOSE	ng/L	ND	1.9	06/24/24 14:33	
NMeFOSA	ng/L	ND	1.9	06/24/24 14:33	
NMeFOSAA	ng/L	ND	1.9	06/24/24 14:33	
NMeFOSE	ng/L	ND	1.9	06/24/24 14:33	
PFBA	ng/L	ND	1.9	06/24/24 14:33	
PFBS	ng/L	ND	1.7	06/24/24 14:33	
PFDA	ng/L	ND	1.9	06/24/24 14:33	
PFDoA	ng/L	ND	1.9	06/24/24 14:33	
PFDoS	ng/L	ND	1.9	06/24/24 14:33	
PFDS	ng/L	ND	1.9	06/24/24 14:33	
PFHpA	ng/L	ND	1.9	06/24/24 14:33	
PFHpS	ng/L	ND	1.8	06/24/24 14:33	
PFHxA	ng/L	ND	1.9	06/24/24 14:33	
PFHxS	ng/L	ND	1.8	06/24/24 14:33	
PFNA	ng/L	ND	1.9	06/24/24 14:33	
PFNS	ng/L	ND	1.9	06/24/24 14:33	
PFOA	ng/L	ND	1.9	06/24/24 14:33	
PFOS	ng/L	ND	1.8	06/24/24 14:33	
PFOSA	ng/L	ND	1.9	06/24/24 14:33	
PFPeA	ng/L	ND	1.9	06/24/24 14:33	
PFPeS	ng/L	ND	1.8	06/24/24 14:33	
PFTeDA	ng/L	ND	1.9	06/24/24 14:33	
PFTrDA	ng/L	ND	1.9	06/24/24 14:33	
PFUnA	ng/L	ND	1.9	06/24/24 14:33	
13C2-PFDoA (S)	%.	122	25-150	06/24/24 14:33	
13C2-PFTA (S)	%.	93	25-150	06/24/24 14:33	
13C24:2FTS (S)	%.	130	25-150	06/24/24 14:33	
13C26:2FTS (S)	%.	112	25-150	06/24/24 14:33	
13C28:2FTS (S)	%.	141	25-150	06/24/24 14:33	
13C2PFHxDA (S)	%.	23	25-150	06/24/24 14:33	S0
13C3-PFBS (S)	%.	121	25-150	06/24/24 14:33	

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REPORT OF LABORATORY ANALYSIS

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

METHOD BLANK: 4975499 Matrix: Water
Associated Lab Samples: 10694182010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C3-PFHxS (S)	%.	124	25-150	06/24/24 14:33	
13C3HFPO-DA (S)	%.	116	25-150	06/24/24 14:33	
13C4-PFBA (S)	%.	138	25-150	06/24/24 14:33	
13C4-PFHpA (S)	%.	128	25-150	06/24/24 14:33	
13C5-PFHxA (S)	%.	141	25-150	06/24/24 14:33	
13C5-PFPeA (S)	%.	136	25-150	06/24/24 14:33	
13C6-PFDA (S)	%.	139	25-150	06/24/24 14:33	
13C7-PFUdA (S)	%.	131	25-150	06/24/24 14:33	
13C8-PFOA (S)	%.	137	25-150	06/24/24 14:33	
13C8-PFOS (S)	%.	118	25-150	06/24/24 14:33	
13C8-PFOSA (S)	%.	81	25-150	06/24/24 14:33	
13C9-PFNA (S)	%.	136	25-150	06/24/24 14:33	
d3-MeFOSAA (S)	%.	127	25-150	06/24/24 14:33	
d3-NMeFOSA (S)	%.	2	20-150	06/24/24 14:33	S0
d5-EtFOSAA (S)	%.	136	25-150	06/24/24 14:33	
d5-NEtFOSA (S)	%.	1	20-150	06/24/24 14:33	S0
d7-NMeFOSE (S)	%.	21	20-150	06/24/24 14:33	
d9-NEtFOSE (S)	%.	16	20-150	06/24/24 14:33	S0

LABORATORY CONTROL SAMPLE & LCSD: 4975500 4975501

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
11Cl-PF3OUdS	ng/L	3.7	3.7	3.6	101	97	50-150	4	30	
4:2 FTS	ng/L	3.6	3.4	3.6	93	99	50-150	6	30	
6:2 FTS	ng/L	3.7	3.4	4.1	92	112	50-150	19	30	
8:2 FTS	ng/L	3.7	4.0	4.3	109	116	50-150	6	30	
9Cl-PF3ONS	ng/L	3.6	3.6	3.7	100	102	50-150	2	30	
ADONA	ng/L	3.7	3.2	3.3	88	90	50-150	3	30	
HFPO-DA	ng/L	3.9	3.6	3.9	93	100	50-150	7	30	
NEtFOSA	ng/L	3.9	2.8	ND	74	0	50-150		30	L2
NEtFOSAA	ng/L	3.9	3.4	3.7	89	95	50-150	7	30	
NEtFOSE	ng/L	3.9	3.2	4.3	83	111	50-150	28	30	
NMeFOSA	ng/L	3.9	4.4	2.8	114	72	50-150	45	30	R1
NMeFOSAA	ng/L	3.9	3.3	3.6	85	92	50-150	8	30	
NMeFOSE	ng/L	3.9	3.3	3.5	85	90	50-150	6	30	
PFBA	ng/L	3.9	3.3	3.4	84	89	50-150	5	30	
PFBS	ng/L	3.4	3.0	3.2	87	93	50-150	7	30	
PFDA	ng/L	3.9	3.5	3.6	90	94	50-150	4	30	
PFDoA	ng/L	3.9	3.4	3.5	87	89	50-150	3	30	
PFDoS	ng/L	3.8	3.1	3.0	83	80	50-150	4	30	
PFDS	ng/L	3.7	2.9	3.4	77	91	50-150	17	30	
PFHpA	ng/L	3.9	3.4	3.5	88	91	50-150	3	30	
PFHpS	ng/L	3.7	3.2	3.3	87	90	50-150	3	30	
PFHxA	ng/L	3.9	3.4	3.7	89	95	50-150	6	30	

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REPORT OF LABORATORY ANALYSIS

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(612)607-1700

QUALITY CONTROL DATA

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

LABORATORY CONTROL SAMPLE & LCSD: 4975500 4975501

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PFHxS	ng/L	3.5	3.0	3.2	83	90	50-150	7	30	
PFNA	ng/L	3.9	3.2	3.4	82	88	50-150	6	30	
PFNS	ng/L	3.7	3.4	3.3	92	89	50-150	3	30	
PFOA	ng/L	3.9	3.5	3.6	91	92	50-150	2	30	
PFOS	ng/L	3.6	3.5	3.2	98	90	50-150	9	30	
PFOSA	ng/L	3.9	3.6	3.9	92	102	50-150	10	30	
PFPeA	ng/L	3.9	3.4	3.6	89	94	50-150	5	30	
PFPeS	ng/L	3.6	3.1	3.2	86	89	50-150	3	30	
PFTeDA	ng/L	3.9	3.3	3.5	86	90	50-150	4	30	
PFTrDA	ng/L	3.9	3.3	3.4	86	88	50-150	2	30	
PFUnA	ng/L	3.9	3.3	3.7	86	96	50-150	11	30	
13C2-PFDoA (S)	%.				126	129	25-150			
13C2-PFTA (S)	%.				122	106	25-150			
13C24:2FTS (S)	%.				137	182	25-150			S0
13C26:2FTS (S)	%.				140	170	25-150			S0
13C28:2FTS (S)	%.				125	158	25-150			S0
13C2PFHxDA (S)	%.				73	47	25-150			
13C3-PFBS (S)	%.				121	123	25-150			
13C3-PFHxS (S)	%.				123	121	25-150			
13C3HFPO-DA (S)	%.				116	115	25-150			
13C4-PFBA (S)	%.				142	144	25-150			
13C4-PFHpA (S)	%.				140	141	25-150			
13C5-PFHxA (S)	%.				139	138	25-150			
13C5-PFPeA (S)	%.				138	142	25-150			
13C6-PFDA (S)	%.				133	136	25-150			
13C7-PFUdA (S)	%.				137	132	25-150			
13C8-PFOA (S)	%.				141	140	25-150			
13C8-PFOS (S)	%.				115	115	25-150			
13C8-PFOSA (S)	%.				89	56	25-150			
13C9-PFNA (S)	%.				140	138	25-150			
d3-MeFOSAA (S)	%.				133	130	25-150			
d3-NMeFOSA (S)	%.				2	0	20-150			S0
d5-EtFOSAA (S)	%.				135	126	25-150			
d5-NEtFOSA (S)	%.				1	0	20-150			S0
d7-NMeFOSE (S)	%.				45	15	20-150			S0
d9-NEtFOSE (S)	%.				42	11	20-150			S0

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Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 10694182

[1] The quality system for Pace Analytical Services, LLC in Minneapolis, MN (Pace-MN) has been audited and was found to be in conformance with ISO/IEC 17025:2017 by an independent assessment (A2LA Certificate # 2926). The PFAS test results in non-drinking water for this project are not covered by this accreditation.

Pace-MN maintains accreditation with the state of Wisconsin for their isotope dilution analysis as defined in ENV-SOP-MIN4-0178 under certificate number999407970. All of the test results for this project are covered by the Wisconsin accreditation.

SAMPLE QUALIFIERS

Sample: 10694182010

[1] RX at 25 mls

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

ANALYTE QUALIFIERS

1M	All narrated results associated with this sample confirmed through secondary analysis.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

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(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: E24-0277 3M Menomonie GW PFAS-Revised Report
Pace Project No.: 10694182

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10694182001	**MEWI-GW-MW3-0-240522**	ENV-SOP-MIN4-0178	947068	ENV-SOP-MIN4-0178	948794
10694182002	**MEWI-GW-MW3-DB-240522**	ENV-SOP-MIN4-0178	947068	ENV-SOP-MIN4-0178	948794
10694182003	**MEWI-GW-MW5-0-240523**	ENV-SOP-MIN4-0178	947068	ENV-SOP-MIN4-0178	948794
10694182004	**MEWI-GW-MW8-0-240523**	ENV-SOP-MIN4-0178	947068	ENV-SOP-MIN4-0178	948794
10694182005	**MEWI-GW-MW9-0-240522**	ENV-SOP-MIN4-0178	950057	ENV-SOP-MIN4-0178	951395
10694182006	**MEWI-GW-MW10-0-240523**	ENV-SOP-MIN4-0178	950057	ENV-SOP-MIN4-0178	951395
10694182007	**MEWI-GW-MW11-0-240523**	ENV-SOP-MIN4-0178	950057	ENV-SOP-MIN4-0178	951395
10694182008	**MEWI-GW-MW12-0-240522**	ENV-SOP-MIN4-0178	950057	ENV-SOP-MIN4-0178	951395
10694182009	**MEWI-GW-MW4D-0-240522**	ENV-SOP-MIN4-0178	950057	ENV-SOP-MIN4-0178	951395
10694182010	**MEWI-GW-MW5D-0-240523**	ENV-SOP-MIN4-0178	951340	ENV-SOP-MIN4-0178	952961
10694182011	**MEWI-GW-MW9D-0-240522**	ENV-SOP-MIN4-0178	950057	ENV-SOP-MIN4-0178	951395
10694182012	**MEWI-GW-MW12D-0-240522**	ENV-SOP-MIN4-0178	950057	ENV-SOP-MIN4-0178	951395
10694182013	**MEWI-GW-PZ1-0-240523**	ENV-SOP-MIN4-0178	950057	ENV-SOP-MIN4-0178	951395
10694182014	**MEWI-GW-PZ2-0-240523**	ENV-SOP-MIN4-0178	950057	ENV-SOP-MIN4-0178	951395
10694182015	**MEWI-GW-PZ3-0-240523**	ENV-SOP-MIN4-0178	950057	ENV-SOP-MIN4-0178	951395
10694182016	**MEWI-GW-PZ3-DB-240523**	ENV-SOP-MIN4-0178	950057	ENV-SOP-MIN4-0178	951395
10694182017	**MEWI-GW-PZ4-0-240523**	ENV-SOP-MIN4-0178	950057	ENV-SOP-MIN4-0178	951395
10694182018	**MEWI-GW-PZ5-0-240523**	ENV-SOP-MIN4-0178	950057	ENV-SOP-MIN4-0178	951395
10694182019	**MEWI-GW-PZ6-0-240523**	ENV-SOP-MIN4-0178	950057	ENV-SOP-MIN4-0178	951395
10694182020	**MEWI-GW-PZ7-0-240523**	ENV-SOP-MIN4-0178	950057	ENV-SOP-MIN4-0178	951395
10694182021	**MEWI-GW-PZ8-0-240523**	ENV-SOP-MIN4-0178	950057	ENV-SOP-MIN4-0178	951395
10694182022	**MEWI-GW-PZ9-0-240523**	ENV-SOP-MIN4-0178	950057	ENV-SOP-MIN4-0178	951395
10694182023	**MEWI-SW-CREEK01-0-240523**	ENV-SOP-MIN4-0178	950057	ENV-SOP-MIN4-0178	951395
10694182024	**MEWI-SW-CREEK03-DB-240523**	ENV-SOP-MIN4-0178	950057	ENV-SOP-MIN4-0178	951395
10694182025	**MEWI-SW-CREEK02-0-240523**	ENV-SOP-MIN4-0178	950058	ENV-SOP-MIN4-0178	951402
10694182026	**MEWI-SW-CREEK03-0-240523**	ENV-SOP-MIN4-0178	950058	ENV-SOP-MIN4-0178	951402
10694182027	**MEWI-SW-CREEK04-0-240523**	ENV-SOP-MIN4-0178	950058	ENV-SOP-MIN4-0178	951402
10694182028	**MEWI-GW-PZ0-0-240523**	ENV-SOP-MIN4-0178	950058	ENV-SOP-MIN4-0178	951402
10694182029	**MEWI-GW-PZ10-0-240523**	ENV-SOP-MIN4-0178	950058	ENV-SOP-MIN4-0178	951402
10694182030	**MEWI-W-FB1-FB-240523**	ENV-SOP-MIN4-0178	950058	ENV-SOP-MIN4-0178	951402
10694182031	**MEWI-W-EB1-EB-240523**	ENV-SOP-MIN4-0178	950058	ENV-SOP-MIN4-0178	951402
10694182032	**MEWI-W-TB1-TB-240523**	ENV-SOP-MIN4-0178	950058	ENV-SOP-MIN4-0178	951402

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Pace® Location Requested (City/State):
Pace Analytical Minnesota
1700 Elm Street, Suite 200
Minneapolis, MN 55414

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 10694182

10694182

Company Name:	3M Environmental	Contact/Report To:	Amanda Albrecht
Street Address:	3M Center, 260-05-N-17, Saint Paul, MN 551441000	Phone #:	651-736-9414
		E-Mail:	aalbrecht2@mmm.com
		Cc E-Mail:	
Customer Project #:	117-001312-24002.03		
Project Name:	E24-0277 3M Menomonie GW PFAS Investigation	Invoice To:	Amanda Albrecht
		Invoice E-Mail:	aalbrecht2@mmm.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET		County / State origin of sample(s):	Minnesota

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other

DW PWSID # or WW Permit # as applicable:

Date Results Requested: standard

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Container Size **: 3

Identify Container Preservative Type***: 1

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Carolynne Trout; AcctNum / Client ID:; Table #:; Profile / Template: 44134; Prelog / Bottle Ord. ID: EZ 3110613

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	Equipment Blank - WI ID NPW	Field Blank - WI ID NPW	Trip Blank - WI ID NPW	WI ID NPW	Sample Comment	Preservation non-conformance identified for sample.
MEWI-GW-MW3-0-240522	WT	G	5/22/24	14:50	→		2						X	001	
MEWI-GW-MW3-DB-240522	WT	↓			5/22/24	14:55	2						X	002	
MEWI-GW-MW5-0-240523	WT				5/23/24	8:05	2						X	003	
MEWI-GW-MW8-0-240523	WT		5/23/24	10:00	→		2						X	004	
MEWI-GW-MW9-0-240522	WT				5/22/24	12:45	2						X	005	
MEWI-GW-MW10-0-240523	WT				5/23/24	13:25	2						X	006	
MEWI-GW-MW11-0-240523	WT				5/23/24	11:20	2						X	007	
MEWI-GW-MW12-0-240522	WT				5/22/24	10:20	2						X	008	
MEWI-GW-MW4D-0-240522	WT				5/22/24	16:15	2						X	009	
MEWI-GW-MW5D-0-240523	WT	↓			5/23/24	8:15	2						X	010	

Additional Instructions from Pace®:

Collected By: (Printed Name) Connor Lawson

Signature: Connor Lawson

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Kallie Rees / Eltrator	5/23/24	[illegible]	5/23/24 1800

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: 1 of 4

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3.0 (B) 12.2 (B)

Pace® Location Requested (City/State):
Pace Analytical Minnesota
1700 Elm Street, Suite 200
Minneapolis, MN 55414

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	3M Environmental	Contact/Report To:	Amanda Albrecht
Street Address:	3M Center, 260-05-N-17, Saint Paul, MN 551441000	Phone #:	651-736-9414
		E-Mail:	aalbrecht2@mmm.com
		Cc E-Mail:	
Customer Project #:	117-001312-24002.03		
Project Name:	E24-0277 3M Menomonie GW PFAS Investigation	Invoice To:	Amanda Albrecht
		Invoice E-Mail:	aalbrecht2@mmm.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Minnesota

Specify Container Size **: 3

Identify Container Preservative Type***: 1

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other

DW PWSID # or WW Permit # as applicable:

Date Results Requested: Standard

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

Lab Use Only: Proj. Mgr: Carolynne Trout; AcctNum / Client ID:; Table #:; Profile / Template: 44134; Prelog / Bottle Ord. ID: EZ 3110613

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	Equipment Blank - WI ID NPW	Field Blank - WI ID NPW	Trip Blank - WI ID NPW	WI ID NPW	Sample Comment	Preservation non-conformance identified for sample.
MEWI-GW-MW9D-0-240522	WT	G			5/22/24	12:40	2						X	CM	
MEWI-GW-MW12D-0-240522	WT	↓			5/22/24	10:30	2						X	CM	
MEWI-GW-PZ1-0-240523	WT				5/23/24	0940	2						X	CM3	
MEWI-GW-PZ2-0-240523	WT				↓	1255	2						X	CM4	
MEWI-GW-PZ3-0-240523	WT					1310	2						X	CM	
MEWI-GW-PZ3-DB-240523	WT					1310	2						X	CM6	
MEWI-GW-PZ4-0-240523	WT					1335	2						X	CM7	
MEWI-GW-PZ5-0-240523	WT					1350	2						X	CM8	
MEWI-GW-PZ6-0-240523	WT					1400	2						X	CM9	
MEWI-GW-PZ7-0-240523	WT	↓				1415	2						X	CM0	

Additional Instructions from Pace®:

Collected By: (Printed Name) Craig Wiemann
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Kallie Ross / Tetra tech	5/23/24	[signature]	5/23/24 1800

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: 2 of 4

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Pace® Location Requested (City/State):
Pace Analytical Minnesota
1700 Elm Street, Suite 200
Minneapolis, MN 55414

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	3M Environmental	Contact/Report To:	Amanda Albrecht
Street Address:	3M Center, 260-05-N-17, Saint Paul, MN 551441000	Phone #:	651-736-9414
		E-Mail:	aalbrecht2@mmm.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	E24-0277 3M Menomonie GW PFAS Investigation	Invoice To:	Amanda Albrecht
		Invoice E-Mail:	aalbrecht2@mmm.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Minnesota

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **: 3

Identify Container Preservative Type***: 1

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Carolynne Trout; AcctNum / Client ID:; Table #:; Profile / Template: 44134; Prelog / Bottle Ord. ID: EZ 3110613

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	Equipment Blank - WI ID NPW	Field Blank - WI ID NPW	Trip Blank - WI ID NPW	WI ID NPW	Sample Comment	Preservation non-conformance identified for sample.
MEWI-GW-PZ8-0-240523	WT	G			5/23/24	1515	1						X	021	
MEWI-GW-PZ9-0-240523	WT	G			5/23/24	1525	1						X	022	
MEWI-SW-CREEK01-0-240523	WT	G			5/23/24	14:10	2						X	023	
MEWI-SW-CREEK03-DB-240523	WT	G			5/23/24	15:05	2						X	024	
MEWI-SW-CREEK02-0-240523	WT	G			5/23/24	14:25							X	025	
MEWI-SW-CREEK03-0-240523	WT	G			5/23/24	15:00							X	026	
MEWI-SW-CREEK04-0-240523	WT	G			5/23/24	14:45							X	027	
MEWI-GW-PZ0-0-240523		G	5/23/24		5/23/24	0925	1						X	028	
MEWI-GW-PZ-10-0-240523		G			5/23/24	1430	1						X	029	
~~MEWI-W-FB1-FB~~	WT				—						X			5/23/24 020	

Additional Instructions from Pace®:

Collected By: (Printed Name) Craig Wiemann

Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Katie Pers / Tetratech	5/23/24 6:00pm	[signature]	5/23/24 1800

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: 3 of 4

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Pace® Location Requested (City/State):
Pace Analytical Minnesota
1700 Elm Street, Suite 200
Minneapolis, MN 55414

CHAIN-OF-CUSTODY Analytical Request Document

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Scan QR Code for instructions

Company Name:	3M Environmental	Contact/Report To:	Amanda Albrecht
Street Address:	3M Center, 260-05-N-17, Saint Paul, MN 551441000	Phone #:	651-736-9414
		E-Mail:	aalbrecht2@mmm.com
		Cc E-Mail:	
Customer Project #:	117-001312-24002,03		
Project Name:	E24-0277 3M Menomonie GW PFAS Investigation	Invoice To:	Amanda Albrecht
		Invoice E-Mail:	aalbrecht2@mmm.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Minnesota

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other _____

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested: Standard

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **: 3 | 3 | 3 | ~~3~~

Identify Container Preservative Type***: 1 | 1 | 1 | ~~1~~

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Carolynne Trout; AcctNum / Client ID: ; Table #: ; Profile / Template: 44134; Prelog / Bottle Ord. ID: EZ 3110613

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	Equipment Blank - WI ID NPW	Field Blank - WI ID NPW	Trip Blank - WI ID NPW	WI ID NPW	Sample Comment	Preservation non-conformance identified for sample.
MEWI-W-FB1-FB-240523	WT	G			5/23/24	9:25	1				X			030	
MEWI-W-EB1-EB-240523	WT	G			5/23/24	9:20	1			X				031	
MEWI-W-TB1-TB-240523	WT	—			5/23/24	—						X		032	

Additional Instructions from Pace®:

Collected By: (Printed Name) Connor Lawson

Signature: Connor Lawson

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Kalie Ross / Tetra tech	5/23/24 6:00	[signature]	5/23/24 1800

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: 4 of 4

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

ENV-FRM-MIN4-0150 v17_Sample Condition Upon Receipt

CLIENT NAME: 3M **PROJECT #:**

WO#: 10694182
PM: CT1 **Due Date: 06/17/24**
CLIENT: 3M ENV

COURIER: ☒ Client ☐ Commercial ☐ FedEx ☐ Pace ☐ SpeeDee ☐ UPS ☐ USPS

TRACKING NUMBER: _____ ☐ See Exceptions form ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present: ☐ YES ☒ NO **Seals Intact:** ☐ YES ☒ NO **Biological Tissue Frozen:** ☐ YES ☐ NO ☒ N/A

Packing Material: ☐ Bubble Bags ☒ Bubble Wrap ☐ None ☐ Other **Temp Blank:** ☒ YES ☐ NO **Type of Ice:** ☐ Blue ☐ Dry ☒ Wet ☐ Melted ☐ None

Thermometer: ☐ T1 (0461) ☐ T2 (0436) ☐ T3 (0459) ☐ T4 (0402) ☐ T5 (0178) ☐ T6 (0235) ☒ T7 (0042) ☐ T8 (0775) ☐ T9 (0727) ☐ 01339252 (1710)

Did Samples Originate in West Virginia: ☐ YES ☒ NO	**Were All Container Temps taken:** ☐ YES ☐ NO ☒ N/A
Correction Factor: -0.3 **Cooler Temp Read w/Temp Blank:** 3.3/2.5 °C **Cooler Temp Corrected w/Temp Blank:** 3.0/2.2 °C	**Average Corrected Temp (no Temp Blank Only):** _____ °C
NOTE: Temp should be above freezing to 6°C.	☐ See Exceptions Form ENV-FRM-MIN4-0142 ☐ 1 Container
USDA Regulated Soil: ☒ N/A – Water Sample/Other (describe): _____	**Initials & Date of Person Examining Contents:** MHZ 5/23/24
Did Samples originate from one of the following states (check maps) – AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: ☐ YES ☐ NO	Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☐ NO

NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

LOCATION (check one): ☐ DULUTH ☒ MINNEAPOLIS ☐ VIRGINIA	YES	NO	N/A	COMMENT(S)
Chain of Custody Present and Filled Out?	☒	☐		1.
Chain of Custody Relinquished?	☒	☐		2.
Sampler Name and/or Signature on COC?	☒	☐	☐	3.
Samples Arrived within Hold Time?	☒	☐		4. If Fecal: ☐ <8 hrs ☐ >8 hr, <24 hr ☐ No
Short Hold Time Analysis (<72 hr)?	☐	☒		5. ☐ BOD / cBOD ☐ Fecal coliform ☐ Hex Chrom ☐ HPC ☐ Nitrate ☐ Nitrite ☐ Ortho Phos ☐ Total coliform/*E. coli* ☐ Other: _____
Rush Turn Around Time Requested?	☐	☒		6.
Sufficient Sample Volume?	☒	☐		7.
Correct Containers Used?	☒	☐	☐	8.
– Pace Containers Used?	☒	☐		
Containers Intact?	☒	☐		9.
Field Filtered Volume Received for Dissolved Tests?	☐	☐	☒	10. Is sediment visible in the dissolved container: ☐ YES ☐ NO
Is sufficient information available to reconcile the samples to the COC? **NOTE:** If ID/Date/Time don't match fill out section 11. Matrix: ☐ Oil ☐ Soil ☒ Water ☐ Other	☒	☐		11. **If NO, write ID/Date/Time of container below:** ☐ See Exceptions form ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☐	☐	☒	12. Sample #:
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide)	☐	☐	☒	☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS	☐	☐	☒	Positive for Residual Chlorine: ☐ YES ☐ NO
NOTE: If adding preservation to the container, **verify with the PM first.** Clients may require adding preservative to the field and equipment blanks when this occurs.				**pH Paper Lot #** Residual Chlorine: ____ 0-6 Roll: ____ 0-6 Strip: ____ 0-14 Strip: ____ ☐ See Exceptions form ENV-FRM-MIN4-0142
Headspace in Methyl Mercury Container?	☐	☐	☒	13.
Extra labels present on soil VOA or WIDRO containers?	☐	☐	☒	14.
Headspace in VOA Vials (greater than 6mm)?	☐	☐	☒	☐ See Exceptions form ENV-FRM-MIN4-0140
Trip Blanks Present?	☐	☐	☒	15.
Trip Blank Custody Seals Present?	☐	☐	☒	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION / RESOLUTION **FIELD DATA REQUIRED:** ☐ YES ☐ NO

Person Contacted: _____ Date & Time: _____

Comments / Resolution: _____

Project Manager Review: Carolynne Trout **Date:** 5/24/24

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: MHZ **Line:** 1