

June 13, 2023

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

RE: Project: E23-0254 Menomonie  
Pace Project No.: 10652482

Dear Amanda Albrecht:

Enclosed are the analytical results for sample(s) received by the laboratory on May 09, 2023. 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

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

Sincerely,



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

Enclosures

cc: 3M Environmental Laboratory, 3M Environmental



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: E23-0254 Menomonie

Pace Project No.: 10652482

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### **Pace Analytical Services, LLC - Minneapolis MN**

1700 Elm Street SE, Minneapolis, MN 55414

A2LA Certification #: 2926.01

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

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

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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: E23-0254 Menomonie

Pace Project No.: 10652482

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10652482001	MEWI-GW-MW1-0-230508	Water	05/08/23 12:00	05/09/23 11:54
10652482002	MEWI-GW-MW2-0-230509	Water	05/09/23 07:50	05/09/23 11:54
10652482003	MEWI-GW-MW3-0-230508	Water	05/08/23 17:10	05/09/23 11:54
10652482004	MEWI-GW-DB-0-230508	Water	05/08/23 00:00	05/09/23 11:54
10652482005	MEWI-GW-MW4-0-230508	Water	05/08/23 16:10	05/09/23 11:54
10652482006	MEWI-GW-MW5-0-230508	Water	05/08/23 15:10	05/09/23 11:54
10652482007	MEWI-GW-MW6-0-230508	Water	05/08/23 14:25	05/09/23 11:54
10652482008	MEWI-GW-MW7-0-230508	Water	05/08/23 13:30	05/09/23 11:54
10652482009	MEWI-GW-FB1-FB-230508	Water	05/08/23 16:00	05/09/23 11:54
10652482010	MEWI-GW-EB1--EB-230509	Water	05/09/23 09:00	05/09/23 11:54

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: E23-0254 Menomonie

Pace Project No.: 10652482

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10652482001	MEWI-GW-MW1-0-230508	ENV-SOP-MIN4-0178	NBH	57	PASI-M
10652482002	MEWI-GW-MW2-0-230509	ENV-SOP-MIN4-0178	NBH	57	PASI-M
10652482003	MEWI-GW-MW3-0-230508	ENV-SOP-MIN4-0178	NBH	57	PASI-M
10652482004	MEWI-GW-DB-0-230508	ENV-SOP-MIN4-0178	NBH	57	PASI-M
10652482005	MEWI-GW-MW4-0-230508	ENV-SOP-MIN4-0178	NBH	57	PASI-M
10652482006	MEWI-GW-MW5-0-230508	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10652482007	MEWI-GW-MW6-0-230508	ENV-SOP-MIN4-0178	NBH	58	PASI-M
10652482008	MEWI-GW-MW7-0-230508	ENV-SOP-MIN4-0178	NBH	57	PASI-M
10652482009	MEWI-GW-FB1-FB-230508	ENV-SOP-MIN4-0178	NBH	57	PASI-M
10652482010	MEWI-GW-EB1--EB-230509	ENV-SOP-MIN4-0178	NBH	57	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: E23-0254 Menomonie

Pace Project No.: 10652482

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>10652482001</b>	<b>MEWI-GW-MW1-0-230508</b>					
ENV-SOP-MIN4-0178	PFBA	0.0052	ug/L	0.0020	05/26/23 15:29	N2
<b>10652482002</b>	<b>MEWI-GW-MW2-0-230509</b>					
ENV-SOP-MIN4-0178	PFHpS	0.022	ug/L	0.019	05/19/23 16:00	N2
ENV-SOP-MIN4-0178	Perfluorohexanesulfonic acid	0.23	ug/L	0.018	05/19/23 16:00	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	0.20	ug/L	0.018	05/19/23 16:00	N2
<b>10652482003</b>	<b>MEWI-GW-MW3-0-230508</b>					
ENV-SOP-MIN4-0178	Perfluorobutanesulfonic acid	0.017	ug/L	0.017	05/19/23 16:15	N2
ENV-SOP-MIN4-0178	Perfluorohexanoic acid	0.069	ug/L	0.020	05/19/23 16:15	N2
ENV-SOP-MIN4-0178	PFHpS	0.12	ug/L	0.019	05/19/23 16:15	N2
ENV-SOP-MIN4-0178	PFPeS	0.042	ug/L	0.018	05/19/23 16:15	N2
ENV-SOP-MIN4-0178	Perfluorohexanesulfonic acid	1.8	ug/L	0.018	05/19/23 16:15	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	1.5	ug/L	0.018	05/19/23 16:15	N2
ENV-SOP-MIN4-0178	Perfluorooctanoic acid	0.73	ug/L	0.020	05/19/23 16:15	N2
<b>10652482004</b>	<b>MEWI-GW-DB-0-230508</b>					
ENV-SOP-MIN4-0178	Perfluorobutanesulfonic acid	0.021	ug/L	0.017	05/19/23 16:22	N2
ENV-SOP-MIN4-0178	Perfluorohexanoic acid	0.083	ug/L	0.019	05/19/23 16:22	N2
ENV-SOP-MIN4-0178	PFHpS	0.14	ug/L	0.018	05/19/23 16:22	N2
ENV-SOP-MIN4-0178	PFPeS	0.052	ug/L	0.018	05/19/23 16:22	N2
ENV-SOP-MIN4-0178	Perfluoroheptanoic acid	0.021	ug/L	0.019	05/19/23 16:22	N2
ENV-SOP-MIN4-0178	Perfluorohexanesulfonic acid	2.5	ug/L	0.18	05/26/23 15:58	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	1.8	ug/L	0.18	05/26/23 15:58	N2
ENV-SOP-MIN4-0178	Perfluorooctanoic acid	0.89	ug/L	0.019	05/19/23 16:22	N2
<b>10652482005</b>	<b>MEWI-GW-MW4-0-230508</b>					
ENV-SOP-MIN4-0178	Perfluorohexanoic acid	0.094	ug/L	0.019	05/19/23 16:29	N2
ENV-SOP-MIN4-0178	PFPeS	0.052	ug/L	0.018	05/19/23 16:29	N2
ENV-SOP-MIN4-0178	Perfluorohexanesulfonic acid	0.76	ug/L	0.018	05/19/23 16:29	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	1.2	ug/L	0.018	05/19/23 16:29	N2
ENV-SOP-MIN4-0178	Perfluorooctanoic acid	0.075	ug/L	0.019	05/19/23 16:29	N2
<b>10652482006</b>	<b>MEWI-GW-MW5-0-230508</b>					
ENV-SOP-MIN4-0178	PFBA	0.022	ug/L	0.020	06/07/23 02:01	M1, N2
ENV-SOP-MIN4-0178	Perfluorohexanesulfonic acid	0.080	ug/L	0.018	06/07/23 02:01	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	0.35	ug/L	0.018	06/07/23 02:01	M1, N2
<b>10652482007</b>	<b>MEWI-GW-MW6-0-230508</b>					
ENV-SOP-MIN4-0178	Perfluorobutanesulfonic acid	0.0082	ug/L	0.0017	06/09/23 11:45	N2
ENV-SOP-MIN4-0178	Perfluorohexanoic acid	0.0057	ug/L	0.0020	06/09/23 11:45	N2
ENV-SOP-MIN4-0178	PFBA	0.016	ug/L	0.0020	06/09/23 11:45	N2
ENV-SOP-MIN4-0178	PFPeA	0.0024	ug/L	0.0020	06/09/23 11:45	N2
ENV-SOP-MIN4-0178	PFPeS	0.0084	ug/L	0.0018	06/09/23 11:45	N2
ENV-SOP-MIN4-0178	Perfluoroheptanoic acid	0.0036	ug/L	0.0020	06/09/23 11:45	N2
ENV-SOP-MIN4-0178	Perfluorohexanesulfonic acid	0.26	ug/L	0.018	06/07/23 02:16	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	0.015	ug/L	0.0018	06/09/23 11:45	N2
ENV-SOP-MIN4-0178	Perfluorooctanoic acid	0.056	ug/L	0.0020	06/09/23 11:45	N2

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: E23-0254 Menomonie

Pace Project No.: 10652482

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>10652482008</b>	<b>MEWI-GW-MW7-0-230508</b>					
ENV-SOP-MIN4-0178	Perfluorobutanesulfonic acid	0.0047	ug/L	0.0017	05/26/23 15:44	N2
ENV-SOP-MIN4-0178	Perfluorohexanoic acid	0.0043	ug/L	0.0020	05/26/23 15:44	N2
ENV-SOP-MIN4-0178	PFBA	0.0076	ug/L	0.0020	05/26/23 15:44	N2
ENV-SOP-MIN4-0178	PFPeA	0.0023	ug/L	0.0020	05/26/23 15:44	N2
ENV-SOP-MIN4-0178	Perfluorohexanesulfonic acid	0.023	ug/L	0.0018	05/26/23 15:44	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	0.024	ug/L	0.0018	05/26/23 15:44	N2

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: E23-0254 Menomonie

Pace Project No.: 10652482

Sample: MEWI-GW-MW1-0-230508 Lab ID: 10652482001 Collected: 05/08/23 12:00 Received: 05/09/23 11:54 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>WI ID NPW</b> Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis									
11CI-PF3OUdS	ND	ug/L	0.0018	0.00055	1	05/16/23 13:50	05/26/23 15:29	763051-92-9	N2
4:2 FTS	ND	ug/L	0.0018	0.00046	1	05/16/23 13:50	05/26/23 15:29	757124-72-4	N2
6:2 FTS	ND	ug/L	0.0019	0.00066	1	05/16/23 13:50	05/26/23 15:29	27619-97-2	N2
8:2 FTS	ND	ug/L	0.0019	0.00049	1	05/16/23 13:50	05/26/23 15:29	39108-34-4	N2
9CI-PF3ONS	ND	ug/L	0.0018	0.00046	1	05/16/23 13:50	05/26/23 15:29	756426-58-1	N2
ADONA	ND	ug/L	0.0019	0.00090	1	05/16/23 13:50	05/26/23 15:29	919005-14-4	N2
HFPO-DA	ND	ug/L	0.0020	0.00048	1	05/16/23 13:50	05/26/23 15:29	13252-13-6	N2
NEtFOSAA	ND	ug/L	0.0020	0.00080	1	05/16/23 13:50	05/26/23 15:29	2991-50-6	N2
NEtFOSA	ND	ug/L	0.0020	0.00056	1	05/16/23 13:50	05/26/23 15:29	4151-50-2	N2
NEtFOSE	ND	ug/L	0.0020	0.00087	1	05/16/23 13:50	05/26/23 15:29	1691-99-2	N2
NMeFOSAA	ND	ug/L	0.0020	0.00068	1	05/16/23 13:50	05/26/23 15:29	2355-31-9	N2
NMeFOSA	ND	ug/L	0.0020	0.00054	1	05/16/23 13:50	05/26/23 15:29	31506-32-8	N2
NMeFOSE	ND	ug/L	0.0020	0.00051	1	05/16/23 13:50	05/26/23 15:29	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/L	0.0017	0.00048	1	05/16/23 13:50	05/26/23 15:29	375-73-5	N2
Perfluorodecanoic acid	ND	ug/L	0.0020	0.00060	1	05/16/23 13:50	05/26/23 15:29	335-76-2	N2
Perfluorohexanoic acid	ND	ug/L	0.0020	0.00089	1	05/16/23 13:50	05/26/23 15:29	307-24-4	N2
PFBA	<b>0.0052</b>	ug/L	0.0020	0.00049	1	05/16/23 13:50	05/26/23 15:29	375-22-4	N2
PFDS	ND	ug/L	0.0019	0.00063	1	05/16/23 13:50	05/26/23 15:29	335-77-3	N2
PFDoS	ND	ug/L	0.0019	0.00058	1	05/16/23 13:50	05/26/23 15:29	79780-39-5	N2
PFHpS	ND	ug/L	0.0019	0.00066	1	05/16/23 13:50	05/26/23 15:29	375-92-8	N2
PFNS	ND	ug/L	0.0019	0.00058	1	05/16/23 13:50	05/26/23 15:29	68259-12-1	N2
PFOSA	ND	ug/L	0.0020	0.00070	1	05/16/23 13:50	05/26/23 15:29	754-91-6	N2
PFPeA	ND	ug/L	0.0020	0.00081	1	05/16/23 13:50	05/26/23 15:29	2706-90-3	N2
PFPeS	ND	ug/L	0.0018	0.00059	1	05/16/23 13:50	05/26/23 15:29	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/L	0.0020	0.00047	1	05/16/23 13:50	05/26/23 15:29	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/L	0.0020	0.00068	1	05/16/23 13:50	05/26/23 15:29	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/L	0.0018	0.00052	1	05/16/23 13:50	05/26/23 15:29	355-46-4	N2
Perfluorononanoic acid	ND	ug/L	0.0020	0.00078	1	05/16/23 13:50	05/26/23 15:29	375-95-1	N2
Perfluorooctanesulfonic acid	ND	ug/L	0.0018	0.00065	1	05/16/23 13:50	05/26/23 15:29	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/L	0.0020	0.00084	1	05/16/23 13:50	05/26/23 15:29	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/L	0.0020	0.00059	1	05/16/23 13:50	05/26/23 15:29	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/L	0.0020	0.00061	1	05/16/23 13:50	05/26/23 15:29	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/L	0.0020	0.00048	1	05/16/23 13:50	05/26/23 15:29	2058-94-8	N2
<b>Surrogates</b>									
13C4-PFBA (S)	88	%	25-150		1	05/16/23 13:50	05/26/23 15:29	375-22-4	
13C5-PFPeA (S)	109	%	25-150		1	05/16/23 13:50	05/26/23 15:29	2706-90-3	
13C3-PFBS (S)	111	%	25-150		1	05/16/23 13:50	05/26/23 15:29	375-73-5	
13C24:2FTS (S)	120	%	25-150		1	05/16/23 13:50	05/26/23 15:29		
13C3HFPO-DA (S)	111	%	25-150		1	05/16/23 13:50	05/26/23 15:29		
13C4-PFHpA (S)	117	%	25-150		1	05/16/23 13:50	05/26/23 15:29	375-85-9	
13C3-PFHxS (S)	113	%	25-150		1	05/16/23 13:50	05/26/23 15:29	355-46-4	
13C26:2FTS (S)	152	%	25-150		1	05/16/23 13:50	05/26/23 15:29		S0
13C8-PFOA (S)	119	%	25-150		1	05/16/23 13:50	05/26/23 15:29	335-67-1	
13C8-PFOS (S)	113	%	25-150		1	05/16/23 13:50	05/26/23 15:29	1763-23-1	
13C9-PFNA (S)	122	%	25-150		1	05/16/23 13:50	05/26/23 15:29	375-95-1	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: E23-0254 Menomonie

Pace Project No.: 10652482

**Sample: MEWI-GW-MW1-0-230508**    **Lab ID: 10652482001**    Collected: 05/08/23 12:00    Received: 05/09/23 11:54    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**WI ID NPW**

Analytical Method: ENV-SOP-MIN4-0178    Preparation Method: ENV-SOP-MIN4-0178  
Pace Analytical Services - Minneapolis

**Surrogates**

13C6-PFDA (S)	124	%	25-150		1	05/16/23 13:50	05/26/23 15:29	335-76-2	
13C28:2FTS (S)	152	%	25-150		1	05/16/23 13:50	05/26/23 15:29		S0
d3-MeFOSAA (S)	103	%	25-150		1	05/16/23 13:50	05/26/23 15:29	2355-31-9	
13C7-PFUdA (S)	115	%	25-150		1	05/16/23 13:50	05/26/23 15:29	2058-94-8	
13C8-PFOSA (S)	85	%	25-150		1	05/16/23 13:50	05/26/23 15:29	754-91-6	
d5-EtFOSAA (S)	103	%	25-150		1	05/16/23 13:50	05/26/23 15:29	2991-50-6	
13C2-PFDoA (S)	128	%	25-150		1	05/16/23 13:50	05/26/23 15:29		
d3-NMeFOSA (S)	54	%	10-150		1	05/16/23 13:50	05/26/23 15:29	31506-32-8	
d7-NMeFOSE (S)	78	%	10-150		1	05/16/23 13:50	05/26/23 15:29	24448-09-7	
13C2-PFTA (S)	108	%	25-150		1	05/16/23 13:50	05/26/23 15:29		
d9-NEtFOSE (S)	79	%	10-150		1	05/16/23 13:50	05/26/23 15:29	1691-99-2	
d5-NEtFOSA (S)	52	%	10-150		1	05/16/23 13:50	05/26/23 15:29	4151-50-2	
13C5-PFHxA (S)	111	%	25-150		1	05/16/23 13:50	05/26/23 15:29	307-24-4	

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## ANALYTICAL RESULTS

Project: E23-0254 Menomonie

Pace Project No.: 10652482

Sample: MEWI-GW-MW2-0-230509 Lab ID: 10652482002 Collected: 05/09/23 07:50 Received: 05/09/23 11:54 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>WI ID NPW</b>									
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178									
Pace Analytical Services - Minneapolis									
11CI-PF3OUdS	ND	ug/L	0.019	0.0055	10	05/16/23 13:50	05/19/23 16:00	763051-92-9	N2
4:2 FTS	ND	ug/L	0.018	0.0046	10	05/16/23 13:50	05/19/23 16:00	757124-72-4	N2
6:2 FTS	ND	ug/L	0.019	0.0067	10	05/16/23 13:50	05/19/23 16:00	27619-97-2	N2
8:2 FTS	ND	ug/L	0.019	0.0050	10	05/16/23 13:50	05/19/23 16:00	39108-34-4	N2
9CI-PF3ONS	ND	ug/L	0.018	0.0046	10	05/16/23 13:50	05/19/23 16:00	756426-58-1	N2
ADONA	ND	ug/L	0.019	0.0091	10	05/16/23 13:50	05/19/23 16:00	919005-14-4	N2
HFPO-DA	ND	ug/L	0.020	0.0049	10	05/16/23 13:50	05/19/23 16:00	13252-13-6	N2
NEtFOSAA	ND	ug/L	0.020	0.0081	10	05/16/23 13:50	05/19/23 16:00	2991-50-6	N2
NEtFOSA	ND	ug/L	0.020	0.0057	10	05/16/23 13:50	05/19/23 16:00	4151-50-2	N2
NEtFOSE	ND	ug/L	0.020	0.0088	10	05/16/23 13:50	05/19/23 16:00	1691-99-2	N2
NMeFOSAA	ND	ug/L	0.020	0.0068	10	05/16/23 13:50	05/19/23 16:00	2355-31-9	N2
NMeFOSA	ND	ug/L	0.020	0.0054	10	05/16/23 13:50	05/19/23 16:00	31506-32-8	N2
NMeFOSE	ND	ug/L	0.020	0.0051	10	05/16/23 13:50	05/19/23 16:00	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/L	0.017	0.0048	10	05/16/23 13:50	05/19/23 16:00	375-73-5	N2
Perfluorodecanoic acid	ND	ug/L	0.020	0.0060	10	05/16/23 13:50	05/19/23 16:00	335-76-2	N2
Perfluorohexanoic acid	ND	ug/L	0.020	0.0090	10	05/16/23 13:50	05/19/23 16:00	307-24-4	N2
PFBA	ND	ug/L	0.020	0.0049	10	05/16/23 13:50	05/19/23 16:00	375-22-4	N2
PFDS	ND	ug/L	0.019	0.0063	10	05/16/23 13:50	05/19/23 16:00	335-77-3	N2
PFDoS	ND	ug/L	0.019	0.0058	10	05/16/23 13:50	05/19/23 16:00	79780-39-5	N2
PFHpS	<b>0.022</b>	ug/L	0.019	0.0066	10	05/16/23 13:50	05/19/23 16:00	375-92-8	N2
PFNS	ND	ug/L	0.019	0.0058	10	05/16/23 13:50	05/19/23 16:00	68259-12-1	N2
PFOSA	ND	ug/L	0.020	0.0071	10	05/16/23 13:50	05/19/23 16:00	754-91-6	N2
PFPeA	ND	ug/L	0.020	0.0081	10	05/16/23 13:50	05/19/23 16:00	2706-90-3	N2
PFPeS	ND	ug/L	0.019	0.0059	10	05/16/23 13:50	05/19/23 16:00	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/L	0.020	0.0047	10	05/16/23 13:50	05/19/23 16:00	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/L	0.020	0.0068	10	05/16/23 13:50	05/19/23 16:00	375-85-9	N2
Perfluorohexanesulfonic acid	<b>0.23</b>	ug/L	0.018	0.0052	10	05/16/23 13:50	05/19/23 16:00	355-46-4	N2
Perfluorononanoic acid	ND	ug/L	0.020	0.0078	10	05/16/23 13:50	05/19/23 16:00	375-95-1	N2
Perfluorooctanesulfonic acid	<b>0.20</b>	ug/L	0.018	0.0066	10	05/16/23 13:50	05/19/23 16:00	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/L	0.020	0.0085	10	05/16/23 13:50	05/19/23 16:00	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/L	0.020	0.0059	10	05/16/23 13:50	05/19/23 16:00	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/L	0.020	0.0061	10	05/16/23 13:50	05/19/23 16:00	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/L	0.020	0.0048	10	05/16/23 13:50	05/19/23 16:00	2058-94-8	N2
<b>Surrogates</b>									
13C4-PFBA (S)	74	%	25-150		10	05/16/23 13:50	05/19/23 16:00	375-22-4	
13C5-PFPeA (S)	77	%	25-150		10	05/16/23 13:50	05/19/23 16:00	2706-90-3	
13C3-PFBS (S)	83	%	25-150		10	05/16/23 13:50	05/19/23 16:00	375-73-5	
13C24:2FTS (S)	84	%	25-150		10	05/16/23 13:50	05/19/23 16:00		
13C3HFPO-DA (S)	88	%	25-150		10	05/16/23 13:50	05/19/23 16:00		
13C4-PFHpA (S)	82	%	25-150		10	05/16/23 13:50	05/19/23 16:00	375-85-9	
13C3-PFHxS (S)	80	%	25-150		10	05/16/23 13:50	05/19/23 16:00	355-46-4	
13C26:2FTS (S)	71	%	25-150		10	05/16/23 13:50	05/19/23 16:00		
13C8-PFOA (S)	81	%	25-150		10	05/16/23 13:50	05/19/23 16:00	335-67-1	
13C8-PFOS (S)	79	%	25-150		10	05/16/23 13:50	05/19/23 16:00	1763-23-1	
13C9-PFNA (S)	80	%	25-150		10	05/16/23 13:50	05/19/23 16:00	375-95-1	

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## ANALYTICAL RESULTS

Project: E23-0254 Menomonie

Pace Project No.: 10652482

**Sample: MEWI-GW-MW2-0-230509**    **Lab ID: 10652482002**    Collected: 05/09/23 07:50    Received: 05/09/23 11:54    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**WI ID NPW**

Analytical Method: ENV-SOP-MIN4-0178    Preparation Method: ENV-SOP-MIN4-0178  
Pace Analytical Services - Minneapolis

**Surrogates**

13C6-PFDA (S)	86	%	25-150		10	05/16/23 13:50	05/19/23 16:00	335-76-2	
13C28:2FTS (S)	81	%	25-150		10	05/16/23 13:50	05/19/23 16:00		
d3-MeFOSAA (S)	70	%	25-150		10	05/16/23 13:50	05/19/23 16:00	2355-31-9	
13C7-PFUdA (S)	78	%	25-150		10	05/16/23 13:50	05/19/23 16:00	2058-94-8	
13C8-PFOSA (S)	46	%	25-150		10	05/16/23 13:50	05/19/23 16:00	754-91-6	
d5-EtFOSAA (S)	74	%	25-150		10	05/16/23 13:50	05/19/23 16:00	2991-50-6	
13C2-PFDoA (S)	79	%	25-150		10	05/16/23 13:50	05/19/23 16:00		
d3-NMeFOSA (S)	2	%	10-150		10	05/16/23 13:50	05/19/23 16:00	31506-32-8	S4
d7-NMeFOSE (S)	24	%	10-150		10	05/16/23 13:50	05/19/23 16:00	24448-09-7	
13C2-PFTA (S)	67	%	25-150		10	05/16/23 13:50	05/19/23 16:00		
d9-NEtFOSE (S)	26	%	10-150		10	05/16/23 13:50	05/19/23 16:00	1691-99-2	
d5-NEtFOSA (S)	2	%	10-150		10	05/16/23 13:50	05/19/23 16:00	4151-50-2	S4
13C5-PFHxA (S)	78	%	25-150		10	05/16/23 13:50	05/19/23 16:00	307-24-4	

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## ANALYTICAL RESULTS

Project: E23-0254 Menomonie

Pace Project No.: 10652482

Sample: **MEWI-GW-MW3-0-230508** Lab ID: **10652482003** Collected: 05/08/23 17:10 Received: 05/09/23 11:54 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>WI ID NPW</b>									
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178									
Pace Analytical Services - Minneapolis									
11CI-PF3OUdS	ND	ug/L	0.018	0.0054	10	05/16/23 13:50	05/19/23 16:15	763051-92-9	N2
4:2 FTS	ND	ug/L	0.018	0.0046	10	05/16/23 13:50	05/19/23 16:15	757124-72-4	N2
6:2 FTS	ND	ug/L	0.019	0.0066	10	05/16/23 13:50	05/19/23 16:15	27619-97-2	N2
8:2 FTS	ND	ug/L	0.019	0.0049	10	05/16/23 13:50	05/19/23 16:15	39108-34-4	N2
9CI-PF3ONS	ND	ug/L	0.018	0.0046	10	05/16/23 13:50	05/19/23 16:15	756426-58-1	N2
ADONA	ND	ug/L	0.019	0.0090	10	05/16/23 13:50	05/19/23 16:15	919005-14-4	N2
HFPO-DA	ND	ug/L	0.020	0.0048	10	05/16/23 13:50	05/19/23 16:15	13252-13-6	N2
NEtFOSAA	ND	ug/L	0.020	0.0080	10	05/16/23 13:50	05/19/23 16:15	2991-50-6	N2
NEtFOSA	ND	ug/L	0.020	0.0056	10	05/16/23 13:50	05/19/23 16:15	4151-50-2	N2
NEtFOSE	ND	ug/L	0.020	0.0087	10	05/16/23 13:50	05/19/23 16:15	1691-99-2	N2
NMeFOSAA	ND	ug/L	0.020	0.0068	10	05/16/23 13:50	05/19/23 16:15	2355-31-9	N2
NMeFOSA	ND	ug/L	0.020	0.0054	10	05/16/23 13:50	05/19/23 16:15	31506-32-8	N2
NMeFOSE	ND	ug/L	0.020	0.0051	10	05/16/23 13:50	05/19/23 16:15	24448-09-7	N2
Perfluorobutanesulfonic acid	<b>0.017</b>	ug/L	0.017	0.0048	10	05/16/23 13:50	05/19/23 16:15	375-73-5	N2
Perfluorodecanoic acid	ND	ug/L	0.020	0.0060	10	05/16/23 13:50	05/19/23 16:15	335-76-2	N2
Perfluorohexanoic acid	<b>0.069</b>	ug/L	0.020	0.0089	10	05/16/23 13:50	05/19/23 16:15	307-24-4	N2
PFBA	ND	ug/L	0.020	0.0049	10	05/16/23 13:50	05/19/23 16:15	375-22-4	N2
PFDS	ND	ug/L	0.019	0.0063	10	05/16/23 13:50	05/19/23 16:15	335-77-3	N2
PFDoS	ND	ug/L	0.019	0.0058	10	05/16/23 13:50	05/19/23 16:15	79780-39-5	N2
PFHpS	<b>0.12</b>	ug/L	0.019	0.0065	10	05/16/23 13:50	05/19/23 16:15	375-92-8	N2
PFNS	ND	ug/L	0.019	0.0057	10	05/16/23 13:50	05/19/23 16:15	68259-12-1	N2
PFOSA	ND	ug/L	0.020	0.0070	10	05/16/23 13:50	05/19/23 16:15	754-91-6	N2
PFPeA	ND	ug/L	0.020	0.0080	10	05/16/23 13:50	05/19/23 16:15	2706-90-3	N2
PFPeS	<b>0.042</b>	ug/L	0.018	0.0059	10	05/16/23 13:50	05/19/23 16:15	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/L	0.020	0.0047	10	05/16/23 13:50	05/19/23 16:15	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/L	0.020	0.0068	10	05/16/23 13:50	05/19/23 16:15	375-85-9	N2
Perfluorohexanesulfonic acid	<b>1.8</b>	ug/L	0.018	0.0052	10	05/16/23 13:50	05/19/23 16:15	355-46-4	N2
Perfluorononanoic acid	ND	ug/L	0.020	0.0078	10	05/16/23 13:50	05/19/23 16:15	375-95-1	N2
Perfluorooctanesulfonic acid	<b>1.5</b>	ug/L	0.018	0.0065	10	05/16/23 13:50	05/19/23 16:15	1763-23-1	N2
Perfluorooctanoic acid	<b>0.73</b>	ug/L	0.020	0.0084	10	05/16/23 13:50	05/19/23 16:15	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/L	0.020	0.0059	10	05/16/23 13:50	05/19/23 16:15	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/L	0.020	0.0061	10	05/16/23 13:50	05/19/23 16:15	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/L	0.020	0.0048	10	05/16/23 13:50	05/19/23 16:15	2058-94-8	N2
<b>Surrogates</b>									
13C4-PFBA (S)	74	%	25-150		10	05/16/23 13:50	05/19/23 16:15	375-22-4	
13C5-PFPeA (S)	75	%	25-150		10	05/16/23 13:50	05/19/23 16:15	2706-90-3	
13C3-PFBS (S)	82	%	25-150		10	05/16/23 13:50	05/19/23 16:15	375-73-5	
13C24:2FTS (S)	84	%	25-150		10	05/16/23 13:50	05/19/23 16:15		
13C3HFPO-DA (S)	81	%	25-150		10	05/16/23 13:50	05/19/23 16:15		
13C4-PFHpA (S)	76	%	25-150		10	05/16/23 13:50	05/19/23 16:15	375-85-9	
13C3-PFHxS (S)	80	%	25-150		10	05/16/23 13:50	05/19/23 16:15	355-46-4	
13C26:2FTS (S)	95	%	25-150		10	05/16/23 13:50	05/19/23 16:15		
13C8-PFOA (S)	82	%	25-150		10	05/16/23 13:50	05/19/23 16:15	335-67-1	
13C8-PFOS (S)	79	%	25-150		10	05/16/23 13:50	05/19/23 16:15	1763-23-1	
13C9-PFNA (S)	80	%	25-150		10	05/16/23 13:50	05/19/23 16:15	375-95-1	

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## ANALYTICAL RESULTS

Project: E23-0254 Menomonie

Pace Project No.: 10652482

**Sample: MEWI-GW-MW3-0-230508**    **Lab ID: 10652482003**    Collected: 05/08/23 17:10    Received: 05/09/23 11:54    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>WI ID NPW</b>									
Analytical Method: ENV-SOP-MIN4-0178    Preparation Method: ENV-SOP-MIN4-0178									
Pace Analytical Services - Minneapolis									
<b>Surrogates</b>									
13C6-PFDA (S)	80	%	25-150		10	05/16/23 13:50	05/19/23 16:15	335-76-2	
13C28:2FTS (S)	67	%	25-150		10	05/16/23 13:50	05/19/23 16:15		
d3-MeFOSAA (S)	70	%	25-150		10	05/16/23 13:50	05/19/23 16:15	2355-31-9	
13C7-PFUdA (S)	75	%	25-150		10	05/16/23 13:50	05/19/23 16:15	2058-94-8	
13C8-PFOSA (S)	51	%	25-150		10	05/16/23 13:50	05/19/23 16:15	754-91-6	
d5-EtFOSAA (S)	64	%	25-150		10	05/16/23 13:50	05/19/23 16:15	2991-50-6	
13C2-PFDoA (S)	67	%	25-150		10	05/16/23 13:50	05/19/23 16:15		
d3-NMeFOSA (S)	0	%	10-150		10	05/16/23 13:50	05/19/23 16:15	31506-32-8	S4
d7-NMeFOSE (S)	31	%	10-150		10	05/16/23 13:50	05/19/23 16:15	24448-09-7	
13C2-PFTA (S)	64	%	25-150		10	05/16/23 13:50	05/19/23 16:15		
d9-NEtFOSE (S)	25	%	10-150		10	05/16/23 13:50	05/19/23 16:15	1691-99-2	
d5-NEtFOSA (S)	0	%	10-150		10	05/16/23 13:50	05/19/23 16:15	4151-50-2	S4
13C5-PFHxA (S)	77	%	25-150		10	05/16/23 13:50	05/19/23 16:15	307-24-4	

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### ANALYTICAL RESULTS

Project: E23-0254 Menomonie

Pace Project No.: 10652482

Sample: MEWI-GW-DB-0-230508 Lab ID: 10652482004 Collected: 05/08/23 00:00 Received: 05/09/23 11:54 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>WI ID NPW</b>									
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178									
Pace Analytical Services - Minneapolis									
11CI-PF3OUdS	ND	ug/L	0.018	0.0054	10	05/16/23 13:50	05/19/23 16:22	763051-92-9	N2
4:2 FTS	ND	ug/L	0.018	0.0045	10	05/16/23 13:50	05/19/23 16:22	757124-72-4	N2
6:2 FTS	ND	ug/L	0.018	0.0066	10	05/16/23 13:50	05/19/23 16:22	27619-97-2	N2
8:2 FTS	ND	ug/L	0.019	0.0049	10	05/16/23 13:50	05/19/23 16:22	39108-34-4	N2
9CI-PF3ONS	ND	ug/L	0.018	0.0046	10	05/16/23 13:50	05/19/23 16:22	756426-58-1	N2
ADONA	ND	ug/L	0.018	0.0089	10	05/16/23 13:50	05/19/23 16:22	919005-14-4	N2
HFPO-DA	ND	ug/L	0.019	0.0048	10	05/16/23 13:50	05/19/23 16:22	13252-13-6	N2
NEtFOSAA	ND	ug/L	0.019	0.0079	10	05/16/23 13:50	05/19/23 16:22	2991-50-6	N2
NEtFOSA	ND	ug/L	0.019	0.0056	10	05/16/23 13:50	05/19/23 16:22	4151-50-2	N2
NEtFOSE	ND	ug/L	0.019	0.0087	10	05/16/23 13:50	05/19/23 16:22	1691-99-2	N2
NMeFOSAA	ND	ug/L	0.019	0.0068	10	05/16/23 13:50	05/19/23 16:22	2355-31-9	N2
NMeFOSA	ND	ug/L	0.019	0.0054	10	05/16/23 13:50	05/19/23 16:22	31506-32-8	N2
NMeFOSE	ND	ug/L	0.019	0.0051	10	05/16/23 13:50	05/19/23 16:22	24448-09-7	N2
Perfluorobutanesulfonic acid	0.021	ug/L	0.017	0.0047	10	05/16/23 13:50	05/19/23 16:22	375-73-5	N2
Perfluorodecanoic acid	ND	ug/L	0.019	0.0059	10	05/16/23 13:50	05/19/23 16:22	335-76-2	N2
Perfluorohexanoic acid	0.083	ug/L	0.019	0.0089	10	05/16/23 13:50	05/19/23 16:22	307-24-4	N2
PFBA	ND	ug/L	0.019	0.0048	10	05/16/23 13:50	05/19/23 16:22	375-22-4	N2
PFDS	ND	ug/L	0.019	0.0062	10	05/16/23 13:50	05/19/23 16:22	335-77-3	N2
PFDoS	ND	ug/L	0.019	0.0058	10	05/16/23 13:50	05/19/23 16:22	79780-39-5	N2
PFHpS	0.14	ug/L	0.018	0.0065	10	05/16/23 13:50	05/19/23 16:22	375-92-8	N2
PFNS	ND	ug/L	0.019	0.0057	10	05/16/23 13:50	05/19/23 16:22	68259-12-1	N2
PFOSA	ND	ug/L	0.019	0.0070	10	05/16/23 13:50	05/19/23 16:22	754-91-6	N2
PFPeA	ND	ug/L	0.019	0.0080	10	05/16/23 13:50	05/19/23 16:22	2706-90-3	N2
PFPeS	0.052	ug/L	0.018	0.0059	10	05/16/23 13:50	05/19/23 16:22	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/L	0.019	0.0047	10	05/16/23 13:50	05/19/23 16:22	307-55-1	N2
Perfluoroheptanoic acid	0.021	ug/L	0.019	0.0067	10	05/16/23 13:50	05/19/23 16:22	375-85-9	N2
Perfluorohexanesulfonic acid	2.5	ug/L	0.18	0.052	100	05/16/23 13:50	05/26/23 15:58	355-46-4	N2
Perfluorononanoic acid	ND	ug/L	0.019	0.0077	10	05/16/23 13:50	05/19/23 16:22	375-95-1	N2
Perfluorooctanesulfonic acid	1.8	ug/L	0.18	0.065	100	05/16/23 13:50	05/26/23 15:58	1763-23-1	N2
Perfluorooctanoic acid	0.89	ug/L	0.019	0.0084	10	05/16/23 13:50	05/19/23 16:22	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/L	0.019	0.0058	10	05/16/23 13:50	05/19/23 16:22	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/L	0.019	0.0061	10	05/16/23 13:50	05/19/23 16:22	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/L	0.019	0.0047	10	05/16/23 13:50	05/19/23 16:22	2058-94-8	N2
<b>Surrogates</b>									
13C4-PFBA (S)	80	%	25-150		10	05/16/23 13:50	05/19/23 16:22	375-22-4	
13C5-PFPeA (S)	81	%	25-150		10	05/16/23 13:50	05/19/23 16:22	2706-90-3	
13C3-PFBS (S)	89	%	25-150		10	05/16/23 13:50	05/19/23 16:22	375-73-5	
13C24:2FTS (S)	100	%	25-150		10	05/16/23 13:50	05/19/23 16:22		
13C3HFPO-DA (S)	87	%	25-150		10	05/16/23 13:50	05/19/23 16:22		
13C4-PFHpA (S)	89	%	25-150		10	05/16/23 13:50	05/19/23 16:22	375-85-9	
13C3-PFHxS (S)	85	%	25-150		10	05/16/23 13:50	05/19/23 16:22	355-46-4	
13C26:2FTS (S)	102	%	25-150		10	05/16/23 13:50	05/19/23 16:22		
13C8-PFOA (S)	88	%	25-150		10	05/16/23 13:50	05/19/23 16:22	335-67-1	
13C8-PFOS (S)	81	%	25-150		10	05/16/23 13:50	05/19/23 16:22	1763-23-1	
13C9-PFNA (S)	85	%	25-150		10	05/16/23 13:50	05/19/23 16:22	375-95-1	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: E23-0254 Menomonie

Pace Project No.: 10652482

**Sample: MEWI-GW-DB-0-230508**      **Lab ID: 10652482004**      Collected: 05/08/23 00:00      Received: 05/09/23 11:54      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>WI ID NPW</b>									
Analytical Method: ENV-SOP-MIN4-0178    Preparation Method: ENV-SOP-MIN4-0178									
Pace Analytical Services - Minneapolis									
<b>Surrogates</b>									
13C6-PFDA (S)	91	%	25-150		10	05/16/23 13:50	05/19/23 16:22	335-76-2	
13C28:2FTS (S)	91	%	25-150		10	05/16/23 13:50	05/19/23 16:22		
d3-MeFOSAA (S)	77	%	25-150		10	05/16/23 13:50	05/19/23 16:22	2355-31-9	
13C7-PFUdA (S)	79	%	25-150		10	05/16/23 13:50	05/19/23 16:22	2058-94-8	
13C8-PFOSA (S)	61	%	25-150		10	05/16/23 13:50	05/19/23 16:22	754-91-6	
d5-EtFOSAA (S)	85	%	25-150		10	05/16/23 13:50	05/19/23 16:22	2991-50-6	
13C2-PFDoA (S)	78	%	25-150		10	05/16/23 13:50	05/19/23 16:22		
d3-NMeFOSA (S)	0	%	10-150		10	05/16/23 13:50	05/19/23 16:22	31506-32-8	S4
d7-NMeFOSE (S)	35	%	10-150		10	05/16/23 13:50	05/19/23 16:22	24448-09-7	
13C2-PFTA (S)	75	%	25-150		10	05/16/23 13:50	05/19/23 16:22		
d9-NEtFOSE (S)	28	%	10-150		10	05/16/23 13:50	05/19/23 16:22	1691-99-2	
d5-NEtFOSA (S)	0	%	10-150		10	05/16/23 13:50	05/19/23 16:22	4151-50-2	S4
13C5-PFHxA (S)	84	%	25-150		10	05/16/23 13:50	05/19/23 16:22	307-24-4	

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## ANALYTICAL RESULTS

Project: E23-0254 Menomonie

Pace Project No.: 10652482

Sample: **MEWI-GW-MW4-0-230508** Lab ID: **10652482005** Collected: 05/08/23 16:10 Received: 05/09/23 11:54 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>WI ID NPW</b>									
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178									
Pace Analytical Services - Minneapolis									
11CI-PF3OUdS	ND	ug/L	0.018	0.0054	10	05/16/23 13:50	05/19/23 16:29	763051-92-9	N2
4:2 FTS	ND	ug/L	0.018	0.0045	10	05/16/23 13:50	05/19/23 16:29	757124-72-4	N2
6:2 FTS	ND	ug/L	0.019	0.0066	10	05/16/23 13:50	05/19/23 16:29	27619-97-2	N2
8:2 FTS	ND	ug/L	0.019	0.0049	10	05/16/23 13:50	05/19/23 16:29	39108-34-4	N2
9CI-PF3ONS	ND	ug/L	0.018	0.0046	10	05/16/23 13:50	05/19/23 16:29	756426-58-1	N2
ADONA	ND	ug/L	0.018	0.0089	10	05/16/23 13:50	05/19/23 16:29	919005-14-4	N2
HFPO-DA	ND	ug/L	0.019	0.0048	10	05/16/23 13:50	05/19/23 16:29	13252-13-6	N2
NEtFOSAA	ND	ug/L	0.019	0.0079	10	05/16/23 13:50	05/19/23 16:29	2991-50-6	N2
NEtFOSA	ND	ug/L	0.019	0.0056	10	05/16/23 13:50	05/19/23 16:29	4151-50-2	N2
NEtFOSE	ND	ug/L	0.019	0.0087	10	05/16/23 13:50	05/19/23 16:29	1691-99-2	N2
NMeFOSAA	ND	ug/L	0.019	0.0068	10	05/16/23 13:50	05/19/23 16:29	2355-31-9	N2
NMeFOSA	ND	ug/L	0.019	0.0054	10	05/16/23 13:50	05/19/23 16:29	31506-32-8	N2
NMeFOSE	ND	ug/L	0.019	0.0051	10	05/16/23 13:50	05/19/23 16:29	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/L	0.017	0.0047	10	05/16/23 13:50	05/19/23 16:29	375-73-5	N2
Perfluorodecanoic acid	ND	ug/L	0.019	0.0059	10	05/16/23 13:50	05/19/23 16:29	335-76-2	N2
Perfluorohexanoic acid	<b>0.094</b>	ug/L	0.019	0.0089	10	05/16/23 13:50	05/19/23 16:29	307-24-4	N2
PFBA	ND	ug/L	0.019	0.0049	10	05/16/23 13:50	05/19/23 16:29	375-22-4	N2
PFDS	ND	ug/L	0.019	0.0062	10	05/16/23 13:50	05/19/23 16:29	335-77-3	N2
PFDoS	ND	ug/L	0.019	0.0058	10	05/16/23 13:50	05/19/23 16:29	79780-39-5	N2
PFHpS	ND	ug/L	0.019	0.0065	10	05/16/23 13:50	05/19/23 16:29	375-92-8	N2
PFNS	ND	ug/L	0.019	0.0057	10	05/16/23 13:50	05/19/23 16:29	68259-12-1	N2
PFOSA	ND	ug/L	0.019	0.0070	10	05/16/23 13:50	05/19/23 16:29	754-91-6	N2
PFPeA	ND	ug/L	0.019	0.0080	10	05/16/23 13:50	05/19/23 16:29	2706-90-3	N2
PFPeS	<b>0.052</b>	ug/L	0.018	0.0059	10	05/16/23 13:50	05/19/23 16:29	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/L	0.019	0.0047	10	05/16/23 13:50	05/19/23 16:29	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/L	0.019	0.0067	10	05/16/23 13:50	05/19/23 16:29	375-85-9	N2
Perfluorohexanesulfonic acid	<b>0.76</b>	ug/L	0.018	0.0052	10	05/16/23 13:50	05/19/23 16:29	355-46-4	N2
Perfluorononanoic acid	ND	ug/L	0.019	0.0077	10	05/16/23 13:50	05/19/23 16:29	375-95-1	N2
Perfluorooctanesulfonic acid	<b>1.2</b>	ug/L	0.018	0.0065	10	05/16/23 13:50	05/19/23 16:29	1763-23-1	N2
Perfluorooctanoic acid	<b>0.075</b>	ug/L	0.019	0.0084	10	05/16/23 13:50	05/19/23 16:29	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/L	0.019	0.0058	10	05/16/23 13:50	05/19/23 16:29	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/L	0.019	0.0061	10	05/16/23 13:50	05/19/23 16:29	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/L	0.019	0.0047	10	05/16/23 13:50	05/19/23 16:29	2058-94-8	N2
<b>Surrogates</b>									
13C4-PFBA (S)	81	%	25-150		10	05/16/23 13:50	05/19/23 16:29	375-22-4	
13C5-PFPeA (S)	83	%	25-150		10	05/16/23 13:50	05/19/23 16:29	2706-90-3	
13C3-PFBS (S)	89	%	25-150		10	05/16/23 13:50	05/19/23 16:29	375-73-5	
13C24:2FTS (S)	68	%	25-150		10	05/16/23 13:50	05/19/23 16:29		
13C3HFPO-DA (S)	91	%	25-150		10	05/16/23 13:50	05/19/23 16:29		
13C4-PFHpA (S)	86	%	25-150		10	05/16/23 13:50	05/19/23 16:29	375-85-9	
13C3-PFHxS (S)	86	%	25-150		10	05/16/23 13:50	05/19/23 16:29	355-46-4	
13C26:2FTS (S)	82	%	25-150		10	05/16/23 13:50	05/19/23 16:29		
13C8-PFOA (S)	92	%	25-150		10	05/16/23 13:50	05/19/23 16:29	335-67-1	
13C8-PFOS (S)	78	%	25-150		10	05/16/23 13:50	05/19/23 16:29	1763-23-1	
13C9-PFNA (S)	82	%	25-150		10	05/16/23 13:50	05/19/23 16:29	375-95-1	

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## ANALYTICAL RESULTS

Project: E23-0254 Menomonie

Pace Project No.: 10652482

**Sample: MEWI-GW-MW4-0-230508**    **Lab ID: 10652482005**    Collected: 05/08/23 16:10    Received: 05/09/23 11:54    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>WI ID NPW</b>									
Analytical Method: ENV-SOP-MIN4-0178    Preparation Method: ENV-SOP-MIN4-0178									
Pace Analytical Services - Minneapolis									
<b>Surrogates</b>									
13C6-PFDA (S)	90	%	25-150		10	05/16/23 13:50	05/19/23 16:29	335-76-2	
13C28:2FTS (S)	93	%	25-150		10	05/16/23 13:50	05/19/23 16:29		
d3-MeFOSAA (S)	69	%	25-150		10	05/16/23 13:50	05/19/23 16:29	2355-31-9	
13C7-PFUdA (S)	89	%	25-150		10	05/16/23 13:50	05/19/23 16:29	2058-94-8	
13C8-PFOSA (S)	67	%	25-150		10	05/16/23 13:50	05/19/23 16:29	754-91-6	
d5-EtFOSAA (S)	69	%	25-150		10	05/16/23 13:50	05/19/23 16:29	2991-50-6	
13C2-PFDoA (S)	82	%	25-150		10	05/16/23 13:50	05/19/23 16:29		
d3-NMeFOSA (S)	6	%	10-150		10	05/16/23 13:50	05/19/23 16:29	31506-32-8	S4
d7-NMeFOSE (S)	61	%	10-150		10	05/16/23 13:50	05/19/23 16:29	24448-09-7	
13C2-PFTA (S)	81	%	25-150		10	05/16/23 13:50	05/19/23 16:29		
d9-NEtFOSE (S)	60	%	10-150		10	05/16/23 13:50	05/19/23 16:29	1691-99-2	
d5-NEtFOSA (S)	9	%	10-150		10	05/16/23 13:50	05/19/23 16:29	4151-50-2	S4
13C5-PFHxA (S)	84	%	25-150		10	05/16/23 13:50	05/19/23 16:29	307-24-4	

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### ANALYTICAL RESULTS

Project: E23-0254 Menomonie

Pace Project No.: 10652482

Sample: MEWI-GW-MW5-0-230508 Lab ID: 10652482006 Collected: 05/08/23 15:10 Received: 05/09/23 11:54 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>WI ID NPW</b>									
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178									
Pace Analytical Services - Minneapolis									
11CI-PF3OUdS	ND	ug/L	0.018	0.0054	10	05/25/23 16:52	06/07/23 02:01	763051-92-9	N2
4:2 FTS	ND	ug/L	0.018	0.0046	10	05/25/23 16:52	06/07/23 02:01	757124-72-4	N2
6:2 FTS	ND	ug/L	0.019	0.0066	10	05/25/23 16:52	06/07/23 02:01	27619-97-2	N2
8:2 FTS	ND	ug/L	0.019	0.0049	10	05/25/23 16:52	06/07/23 02:01	39108-34-4	N2
9CI-PF3ONS	ND	ug/L	0.018	0.0046	10	05/25/23 16:52	06/07/23 02:01	756426-58-1	N2
ADONA	ND	ug/L	0.018	0.0090	10	05/25/23 16:52	06/07/23 02:01	919005-14-4	N2
HFPO-DA	ND	ug/L	0.020	0.0048	10	05/25/23 16:52	06/07/23 02:01	13252-13-6	N2
NEtFOSAA	ND	ug/L	0.020	0.0080	10	05/25/23 16:52	06/07/23 02:01	2991-50-6	N2
NEtFOSA	ND	ug/L	0.020	0.0056	10	05/25/23 16:52	06/07/23 02:01	4151-50-2	M1,N2
NEtFOSE	ND	ug/L	0.020	0.0087	10	05/25/23 16:52	06/07/23 02:01	1691-99-2	N2
NMeFOSAA	ND	ug/L	0.020	0.0068	10	05/25/23 16:52	06/07/23 02:01	2355-31-9	N2
NMeFOSA	ND	ug/L	0.020	0.0054	10	05/25/23 16:52	06/07/23 02:01	31506-32-8	N2
NMeFOSE	ND	ug/L	0.020	0.0051	10	05/25/23 16:52	06/07/23 02:01	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/L	0.017	0.0047	10	05/25/23 16:52	06/07/23 02:01	375-73-5	N2
Perfluorodecanoic acid	ND	ug/L	0.020	0.0059	10	05/25/23 16:52	06/07/23 02:01	335-76-2	N2
Perfluorohexanoic acid	ND	ug/L	0.020	0.0089	10	05/25/23 16:52	06/07/23 02:01	307-24-4	N2
PFBA	<b>0.022</b>	ug/L	0.020	0.0049	10	05/25/23 16:52	06/07/23 02:01	375-22-4	M1,N2
PFDS	ND	ug/L	0.019	0.0063	10	05/25/23 16:52	06/07/23 02:01	335-77-3	N2
PFDoS	ND	ug/L	0.019	0.0058	10	05/25/23 16:52	06/07/23 02:01	79780-39-5	N2
PFHpS	ND	ug/L	0.019	0.0065	10	05/25/23 16:52	06/07/23 02:01	375-92-8	N2
PFNS	ND	ug/L	0.019	0.0057	10	05/25/23 16:52	06/07/23 02:01	68259-12-1	N2
PFOSA	ND	ug/L	0.020	0.0070	10	05/25/23 16:52	06/07/23 02:01	754-91-6	N2
PFPeA	ND	ug/L	0.020	0.0080	10	05/25/23 16:52	06/07/23 02:01	2706-90-3	N2
PFPeS	ND	ug/L	0.018	0.0059	10	05/25/23 16:52	06/07/23 02:01	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/L	0.020	0.0047	10	05/25/23 16:52	06/07/23 02:01	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/L	0.020	0.0067	10	05/25/23 16:52	06/07/23 02:01	375-85-9	N2
Perfluorohexanesulfonic acid	<b>0.080</b>	ug/L	0.018	0.0052	10	05/25/23 16:52	06/07/23 02:01	355-46-4	N2
Perfluorononanoic acid	ND	ug/L	0.020	0.0078	10	05/25/23 16:52	06/07/23 02:01	375-95-1	N2
Perfluorooctanesulfonic acid	<b>0.35</b>	ug/L	0.018	0.0065	10	05/25/23 16:52	06/07/23 02:01	1763-23-1	M1,N2
Perfluorooctanoic acid	ND	ug/L	0.020	0.0084	10	05/25/23 16:52	06/07/23 02:01	335-67-1	M1,N2
Perfluorotetradecanoic acid	ND	ug/L	0.020	0.0059	10	05/25/23 16:52	06/07/23 02:01	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/L	0.020	0.0061	10	05/25/23 16:52	06/07/23 02:01	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/L	0.020	0.0047	10	05/25/23 16:52	06/07/23 02:01	2058-94-8	N2
<b>Surrogates</b>									
13C4-PFBA (S)	65	%	25-150		10	05/25/23 16:52	06/07/23 02:01	375-22-4	
13C5-PFPeA (S)	71	%	25-150		10	05/25/23 16:52	06/07/23 02:01	2706-90-3	
13C3-PFBS (S)	73	%	25-150		10	05/25/23 16:52	06/07/23 02:01	375-73-5	
13C24:2FTS (S)	77	%	25-150		10	05/25/23 16:52	06/07/23 02:01		
13C3HFPO-DA (S)	79	%	25-150		10	05/25/23 16:52	06/07/23 02:01		
13C4-PFHpA (S)	72	%	25-150		10	05/25/23 16:52	06/07/23 02:01	375-85-9	
13C3-PFHxS (S)	75	%	25-150		10	05/25/23 16:52	06/07/23 02:01	355-46-4	
13C26:2FTS (S)	76	%	25-150		10	05/25/23 16:52	06/07/23 02:01		
13C8-PFOA (S)	73	%	25-150		10	05/25/23 16:52	06/07/23 02:01	335-67-1	
13C8-PFOS (S)	77	%	25-150		10	05/25/23 16:52	06/07/23 02:01	1763-23-1	
13C9-PFNA (S)	69	%	25-150		10	05/25/23 16:52	06/07/23 02:01	375-95-1	

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## ANALYTICAL RESULTS

Project: E23-0254 Menomonie

Pace Project No.: 10652482

**Sample: MEWI-GW-MW5-0-230508**    **Lab ID: 10652482006**    Collected: 05/08/23 15:10    Received: 05/09/23 11:54    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**WI ID NPW**

Analytical Method: ENV-SOP-MIN4-0178    Preparation Method: ENV-SOP-MIN4-0178  
Pace Analytical Services - Minneapolis

**Surrogates**

13C6-PFDA (S)	73	%	25-150		10	05/25/23 16:52	06/07/23 02:01	335-76-2	
13C28:2FTS (S)	53	%	25-150		10	05/25/23 16:52	06/07/23 02:01		
d3-MeFOSAA (S)	61	%	25-150		10	05/25/23 16:52	06/07/23 02:01	2355-31-9	
13C7-PFUdA (S)	64	%	25-150		10	05/25/23 16:52	06/07/23 02:01	2058-94-8	
13C8-PFOSA (S)	65	%	25-150		10	05/25/23 16:52	06/07/23 02:01	754-91-6	
d5-EtFOSAA (S)	69	%	25-150		10	05/25/23 16:52	06/07/23 02:01	2991-50-6	
13C2-PFDoA (S)	64	%	25-150		10	05/25/23 16:52	06/07/23 02:01		
d3-NMeFOSA (S)	27	%	10-150		10	05/25/23 16:52	06/07/23 02:01	31506-32-8	
d7-NMeFOSE (S)	60	%	10-150		10	05/25/23 16:52	06/07/23 02:01	24448-09-7	
13C2-PFTA (S)	64	%	25-150		10	05/25/23 16:52	06/07/23 02:01		
d9-NEtFOSE (S)	52	%	10-150		10	05/25/23 16:52	06/07/23 02:01	1691-99-2	
d5-NEtFOSA (S)	25	%	10-150		10	05/25/23 16:52	06/07/23 02:01	4151-50-2	
13C2PFHxDA (S)	64	%	25-150		10	05/25/23 16:52	06/07/23 02:01		
13C5-PFHxA (S)	77	%	25-150		10	05/25/23 16:52	06/07/23 02:01	307-24-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: E23-0254 Menomonie

Pace Project No.: 10652482

Sample: **MEWI-GW-MW6-0-230508** Lab ID: **10652482007** Collected: 05/08/23 14:25 Received: 05/09/23 11:54 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>WI ID NPW</b>									
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178									
Pace Analytical Services - Minneapolis									
11CI-PF3OUdS	ND	ug/L	0.0018	0.00054	1	05/25/23 16:52	06/09/23 11:45	763051-92-9	N2
4:2 FTS	ND	ug/L	0.0018	0.00045	1	05/25/23 16:52	06/09/23 11:45	757124-72-4	N2
6:2 FTS	ND	ug/L	0.0019	0.00066	1	05/25/23 16:52	06/09/23 11:45	27619-97-2	N2
8:2 FTS	ND	ug/L	0.0019	0.00049	1	05/25/23 16:52	06/09/23 11:45	39108-34-4	N2
9CI-PF3ONS	ND	ug/L	0.0018	0.00046	1	05/25/23 16:52	06/09/23 11:45	756426-58-1	N2
ADONA	ND	ug/L	0.0018	0.00090	1	05/25/23 16:52	06/09/23 11:45	919005-14-4	N2
HFPO-DA	ND	ug/L	0.0020	0.00048	1	05/25/23 16:52	06/09/23 11:45	13252-13-6	N2
NEtFOSAA	ND	ug/L	0.0020	0.00080	1	05/25/23 16:52	06/09/23 11:45	2991-50-6	N2
NEtFOSA	ND	ug/L	0.0020	0.00056	1	05/25/23 16:52	06/09/23 11:45	4151-50-2	N2
NEtFOSE	ND	ug/L	0.0020	0.00087	1	05/25/23 16:52	06/09/23 11:45	1691-99-2	N2
NMeFOSAA	ND	ug/L	0.0020	0.00068	1	05/25/23 16:52	06/09/23 11:45	2355-31-9	N2
NMeFOSA	ND	ug/L	0.0020	0.00054	1	05/25/23 16:52	06/09/23 11:45	31506-32-8	N2
NMeFOSE	ND	ug/L	0.0020	0.00051	1	05/25/23 16:52	06/09/23 11:45	24448-09-7	N2
Perfluorobutanesulfonic acid	<b>0.0082</b>	ug/L	0.0017	0.00047	1	05/25/23 16:52	06/09/23 11:45	375-73-5	N2
Perfluorodecanoic acid	ND	ug/L	0.0020	0.00059	1	05/25/23 16:52	06/09/23 11:45	335-76-2	N2
Perfluorohexanoic acid	<b>0.0057</b>	ug/L	0.0020	0.00089	1	05/25/23 16:52	06/09/23 11:45	307-24-4	N2
PFBA	<b>0.016</b>	ug/L	0.0020	0.00049	1	05/25/23 16:52	06/09/23 11:45	375-22-4	N2
PFDS	ND	ug/L	0.0019	0.00063	1	05/25/23 16:52	06/09/23 11:45	335-77-3	N2
PFDoS	ND	ug/L	0.0019	0.00058	1	05/25/23 16:52	06/09/23 11:45	79780-39-5	N2
PFHpS	ND	ug/L	0.0019	0.00065	1	05/25/23 16:52	06/09/23 11:45	375-92-8	N2
PFNS	ND	ug/L	0.0019	0.00057	1	05/25/23 16:52	06/09/23 11:45	68259-12-1	N2
PFOSA	ND	ug/L	0.0020	0.00070	1	05/25/23 16:52	06/09/23 11:45	754-91-6	N2
PFPeA	<b>0.0024</b>	ug/L	0.0020	0.00080	1	05/25/23 16:52	06/09/23 11:45	2706-90-3	N2
PFPeS	<b>0.0084</b>	ug/L	0.0018	0.00059	1	05/25/23 16:52	06/09/23 11:45	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/L	0.0020	0.00047	1	05/25/23 16:52	06/09/23 11:45	307-55-1	N2
Perfluoroheptanoic acid	<b>0.0036</b>	ug/L	0.0020	0.00067	1	05/25/23 16:52	06/09/23 11:45	375-85-9	N2
Perfluorohexanesulfonic acid	<b>0.26</b>	ug/L	0.018	0.0052	10	05/25/23 16:52	06/07/23 02:16	355-46-4	N2
Perfluorononanoic acid	ND	ug/L	0.0020	0.00077	1	05/25/23 16:52	06/09/23 11:45	375-95-1	N2
Perfluorooctanesulfonic acid	<b>0.015</b>	ug/L	0.0018	0.00065	1	05/25/23 16:52	06/09/23 11:45	1763-23-1	N2
Perfluorooctanoic acid	<b>0.056</b>	ug/L	0.0020	0.00084	1	05/25/23 16:52	06/09/23 11:45	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/L	0.0020	0.00059	1	05/25/23 16:52	06/09/23 11:45	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/L	0.0020	0.00061	1	05/25/23 16:52	06/09/23 11:45	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/L	0.0020	0.00047	1	05/25/23 16:52	06/09/23 11:45	2058-94-8	N2
<b>Surrogates</b>									
13C4-PFBA (S)	60	%	25-150		1	05/25/23 16:52	06/09/23 11:45	375-22-4	
13C5-PFPeA (S)	67	%	25-150		1	05/25/23 16:52	06/09/23 11:45	2706-90-3	
13C3-PFBS (S)	67	%	25-150		1	05/25/23 16:52	06/09/23 11:45	375-73-5	
13C24:2FTS (S)	71	%	25-150		1	05/25/23 16:52	06/09/23 11:45		
13C3HFPO-DA (S)	63	%	25-150		1	05/25/23 16:52	06/09/23 11:45		
13C4-PFHpA (S)	67	%	25-150		1	05/25/23 16:52	06/09/23 11:45	375-85-9	
13C3-PFHxS (S)	65	%	25-150		1	05/25/23 16:52	06/09/23 11:45	355-46-4	
13C26:2FTS (S)	73	%	25-150		1	05/25/23 16:52	06/09/23 11:45		
13C8-PFOA (S)	67	%	25-150		1	05/25/23 16:52	06/09/23 11:45	335-67-1	
13C8-PFOS (S)	67	%	25-150		1	05/25/23 16:52	06/09/23 11:45	1763-23-1	
13C9-PFNA (S)	72	%	25-150		1	05/25/23 16:52	06/09/23 11:45	375-95-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: E23-0254 Menomonie

Pace Project No.: 10652482

**Sample: MEWI-GW-MW6-0-230508**    **Lab ID: 10652482007**    Collected: 05/08/23 14:25    Received: 05/09/23 11:54    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>WI ID NPW</b>									
Analytical Method: ENV-SOP-MIN4-0178    Preparation Method: ENV-SOP-MIN4-0178									
Pace Analytical Services - Minneapolis									
<b>Surrogates</b>									
13C6-PFDA (S)	63	%	25-150		1	05/25/23 16:52	06/09/23 11:45	335-76-2	
13C28:2FTS (S)	79	%	25-150		1	05/25/23 16:52	06/09/23 11:45		
d3-MeFOSAA (S)	52	%	25-150		1	05/25/23 16:52	06/09/23 11:45	2355-31-9	
13C7-PFUdA (S)	57	%	25-150		1	05/25/23 16:52	06/09/23 11:45	2058-94-8	
13C8-PFOSA (S)	55	%	25-150		1	05/25/23 16:52	06/09/23 11:45	754-91-6	
d5-EtFOSAA (S)	53	%	25-150		1	05/25/23 16:52	06/09/23 11:45	2991-50-6	
13C2-PFDoA (S)	62	%	25-150		1	05/25/23 16:52	06/09/23 11:45		
d3-NMeFOSA (S)	20	%	10-150		1	05/25/23 16:52	06/09/23 11:45	31506-32-8	
d7-NMeFOSE (S)	49	%	10-150		1	05/25/23 16:52	06/09/23 11:45	24448-09-7	
13C2-PFTA (S)	62	%	25-150		1	05/25/23 16:52	06/09/23 11:45		
d9-NEtFOSE (S)	47	%	10-150		1	05/25/23 16:52	06/09/23 11:45	1691-99-2	
d5-NEtFOSA (S)	17	%	10-150		1	05/25/23 16:52	06/09/23 11:45	4151-50-2	
13C2PFHxDA (S)	58	%	25-150		1	05/25/23 16:52	06/09/23 11:45		
13C5-PFHxA (S)	65	%	25-150		1	05/25/23 16:52	06/09/23 11:45	307-24-4	

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### ANALYTICAL RESULTS

Project: E23-0254 Menomonie

Pace Project No.: 10652482

Sample: **MEWI-GW-MW7-0-230508** Lab ID: **10652482008** Collected: 05/08/23 13:30 Received: 05/09/23 11:54 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>WI ID NPW</b>									
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178									
Pace Analytical Services - Minneapolis									
11CI-PF3OUdS	ND	ug/L	0.0019	0.00055	1	05/16/23 13:50	05/26/23 15:44	763051-92-9	N2
4:2 FTS	ND	ug/L	0.0018	0.00046	1	05/16/23 13:50	05/26/23 15:44	757124-72-4	N2
6:2 FTS	ND	ug/L	0.0019	0.00067	1	05/16/23 13:50	05/26/23 15:44	27619-97-2	N2
8:2 FTS	ND	ug/L	0.0019	0.00050	1	05/16/23 13:50	05/26/23 15:44	39108-34-4	N2
9CI-PF3ONS	ND	ug/L	0.0018	0.00046	1	05/16/23 13:50	05/26/23 15:44	756426-58-1	N2
ADONA	ND	ug/L	0.0019	0.00090	1	05/16/23 13:50	05/26/23 15:44	919005-14-4	N2
HFPO-DA	ND	ug/L	0.0020	0.00049	1	05/16/23 13:50	05/26/23 15:44	13252-13-6	N2
NEtFOSAA	ND	ug/L	0.0020	0.00080	1	05/16/23 13:50	05/26/23 15:44	2991-50-6	N2
NEtFOSA	ND	ug/L	0.0020	0.00057	1	05/16/23 13:50	05/26/23 15:44	4151-50-2	N2
NEtFOSE	ND	ug/L	0.0020	0.00088	1	05/16/23 13:50	05/26/23 15:44	1691-99-2	N2
NMeFOSAA	ND	ug/L	0.0020	0.00068	1	05/16/23 13:50	05/26/23 15:44	2355-31-9	N2
NMeFOSA	ND	ug/L	0.0020	0.00054	1	05/16/23 13:50	05/26/23 15:44	31506-32-8	N2
NMeFOSE	ND	ug/L	0.0020	0.00051	1	05/16/23 13:50	05/26/23 15:44	24448-09-7	N2
Perfluorobutanesulfonic acid	<b>0.0047</b>	ug/L	0.0017	0.00048	1	05/16/23 13:50	05/26/23 15:44	375-73-5	N2
Perfluorodecanoic acid	ND	ug/L	0.0020	0.00060	1	05/16/23 13:50	05/26/23 15:44	335-76-2	N2
Perfluorohexanoic acid	<b>0.0043</b>	ug/L	0.0020	0.00090	1	05/16/23 13:50	05/26/23 15:44	307-24-4	N2
PFBA	<b>0.0076</b>	ug/L	0.0020	0.00049	1	05/16/23 13:50	05/26/23 15:44	375-22-4	N2
PFDS	ND	ug/L	0.0019	0.00063	1	05/16/23 13:50	05/26/23 15:44	335-77-3	N2
PFDoS	ND	ug/L	0.0019	0.00058	1	05/16/23 13:50	05/26/23 15:44	79780-39-5	N2
PFHpS	ND	ug/L	0.0019	0.00066	1	05/16/23 13:50	05/26/23 15:44	375-92-8	N2
PFNS	ND	ug/L	0.0019	0.00058	1	05/16/23 13:50	05/26/23 15:44	68259-12-1	N2
PFOSA	ND	ug/L	0.0020	0.00071	1	05/16/23 13:50	05/26/23 15:44	754-91-6	N2
PFPeA	<b>0.0023</b>	ug/L	0.0020	0.00081	1	05/16/23 13:50	05/26/23 15:44	2706-90-3	N2
PFPeS	ND	ug/L	0.0019	0.00059	1	05/16/23 13:50	05/26/23 15:44	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/L	0.0020	0.00047	1	05/16/23 13:50	05/26/23 15:44	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/L	0.0020	0.00068	1	05/16/23 13:50	05/26/23 15:44	375-85-9	N2
Perfluorohexanesulfonic acid	<b>0.023</b>	ug/L	0.0018	0.00052	1	05/16/23 13:50	05/26/23 15:44	355-46-4	N2
Perfluorononanoic acid	ND	ug/L	0.0020	0.00078	1	05/16/23 13:50	05/26/23 15:44	375-95-1	N2
Perfluorooctanesulfonic acid	<b>0.024</b>	ug/L	0.0018	0.00066	1	05/16/23 13:50	05/26/23 15:44	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/L	0.0020	0.00085	1	05/16/23 13:50	05/26/23 15:44	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/L	0.0020	0.00059	1	05/16/23 13:50	05/26/23 15:44	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/L	0.0020	0.00061	1	05/16/23 13:50	05/26/23 15:44	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/L	0.0020	0.00048	1	05/16/23 13:50	05/26/23 15:44	2058-94-8	N2
<b>Surrogates</b>									
13C4-PFBA (S)	97	%	25-150		1	05/16/23 13:50	05/26/23 15:44	375-22-4	
13C5-PFPeA (S)	105	%	25-150		1	05/16/23 13:50	05/26/23 15:44	2706-90-3	
13C3-PFBS (S)	104	%	25-150		1	05/16/23 13:50	05/26/23 15:44	375-73-5	
13C24:2FTS (S)	100	%	25-150		1	05/16/23 13:50	05/26/23 15:44		
13C3HFPO-DA (S)	109	%	25-150		1	05/16/23 13:50	05/26/23 15:44		
13C4-PFHpA (S)	110	%	25-150		1	05/16/23 13:50	05/26/23 15:44	375-85-9	
13C3-PFHxS (S)	110	%	25-150		1	05/16/23 13:50	05/26/23 15:44	355-46-4	
13C26:2FTS (S)	110	%	25-150		1	05/16/23 13:50	05/26/23 15:44		
13C8-PFOA (S)	117	%	25-150		1	05/16/23 13:50	05/26/23 15:44	335-67-1	
13C8-PFOS (S)	114	%	25-150		1	05/16/23 13:50	05/26/23 15:44	1763-23-1	
13C9-PFNA (S)	116	%	25-150		1	05/16/23 13:50	05/26/23 15:44	375-95-1	

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## ANALYTICAL RESULTS

Project: E23-0254 Menomonie

Pace Project No.: 10652482

**Sample: MEWI-GW-MW7-0-230508**    **Lab ID: 10652482008**    Collected: 05/08/23 13:30    Received: 05/09/23 11:54    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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**WI ID NPW**

Analytical Method: ENV-SOP-MIN4-0178    Preparation Method: ENV-SOP-MIN4-0178  
Pace Analytical Services - Minneapolis

**Surrogates**

13C6-PFDA (S)	119	%	25-150		1	05/16/23 13:50	05/26/23 15:44	335-76-2	
13C28:2FTS (S)	133	%	25-150		1	05/16/23 13:50	05/26/23 15:44		
d3-MeFOSAA (S)	105	%	25-150		1	05/16/23 13:50	05/26/23 15:44	2355-31-9	
13C7-PFUdA (S)	112	%	25-150		1	05/16/23 13:50	05/26/23 15:44	2058-94-8	
13C8-PFOSA (S)	68	%	25-150		1	05/16/23 13:50	05/26/23 15:44	754-91-6	
d5-EtFOSAA (S)	99	%	25-150		1	05/16/23 13:50	05/26/23 15:44	2991-50-6	
13C2-PFDoA (S)	112	%	25-150		1	05/16/23 13:50	05/26/23 15:44		
d3-NMeFOSA (S)	1	%	10-150		1	05/16/23 13:50	05/26/23 15:44	31506-32-8	S0
d7-NMeFOSE (S)	34	%	10-150		1	05/16/23 13:50	05/26/23 15:44	24448-09-7	
13C2-PFTA (S)	99	%	25-150		1	05/16/23 13:50	05/26/23 15:44		
d9-NEtFOSE (S)	32	%	10-150		1	05/16/23 13:50	05/26/23 15:44	1691-99-2	
d5-NEtFOSA (S)	1	%	10-150		1	05/16/23 13:50	05/26/23 15:44	4151-50-2	S0
13C5-PFHxA (S)	105	%	25-150		1	05/16/23 13:50	05/26/23 15:44	307-24-4	

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## ANALYTICAL RESULTS

Project: E23-0254 Menomonie

Pace Project No.: 10652482

Sample: MEWI-GW-FB1-FB-230508 Lab ID: 10652482009 Collected: 05/08/23 16:00 Received: 05/09/23 11:54 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>WI ID NPW</b>									
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis									
11CI-PF3OUdS	ND	ug/L	0.0018	0.00053	1	05/16/23 13:50	05/19/23 16:43	763051-92-9	N2
4:2 FTS	ND	ug/L	0.0018	0.00045	1	05/16/23 13:50	05/19/23 16:43	757124-72-4	N2
6:2 FTS	ND	ug/L	0.0018	0.00065	1	05/16/23 13:50	05/19/23 16:43	27619-97-2	N2
8:2 FTS	ND	ug/L	0.0019	0.00048	1	05/16/23 13:50	05/19/23 16:43	39108-34-4	N2
9CI-PF3ONS	ND	ug/L	0.0018	0.00045	1	05/16/23 13:50	05/19/23 16:43	756426-58-1	N2
ADONA	ND	ug/L	0.0018	0.00088	1	05/16/23 13:50	05/19/23 16:43	919005-14-4	N2
HFPO-DA	ND	ug/L	0.0019	0.00047	1	05/16/23 13:50	05/19/23 16:43	13252-13-6	N2
NEtFOSAA	ND	ug/L	0.0019	0.00078	1	05/16/23 13:50	05/19/23 16:43	2991-50-6	N2
NEtFOSA	ND	ug/L	0.0019	0.00055	1	05/16/23 13:50	05/19/23 16:43	4151-50-2	N2
NEtFOSE	ND	ug/L	0.0019	0.00085	1	05/16/23 13:50	05/19/23 16:43	1691-99-2	N2
NMeFOSAA	ND	ug/L	0.0019	0.00067	1	05/16/23 13:50	05/19/23 16:43	2355-31-9	N2
NMeFOSA	ND	ug/L	0.0019	0.00053	1	05/16/23 13:50	05/19/23 16:43	31506-32-8	N2
NMeFOSE	ND	ug/L	0.0019	0.00050	1	05/16/23 13:50	05/19/23 16:43	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/L	0.0017	0.00047	1	05/16/23 13:50	05/19/23 16:43	375-73-5	N2
Perfluorodecanoic acid	ND	ug/L	0.0019	0.00058	1	05/16/23 13:50	05/19/23 16:43	335-76-2	N2
Perfluorohexanoic acid	ND	ug/L	0.0019	0.00087	1	05/16/23 13:50	05/19/23 16:43	307-24-4	N2
PFBA	ND	ug/L	0.0019	0.00048	1	05/16/23 13:50	05/19/23 16:43	375-22-4	N2
PFDS	ND	ug/L	0.0019	0.00062	1	05/16/23 13:50	05/19/23 16:43	335-77-3	N2
PFDoS	ND	ug/L	0.0019	0.00057	1	05/16/23 13:50	05/19/23 16:43	79780-39-5	N2
PFHpS	ND	ug/L	0.0018	0.00064	1	05/16/23 13:50	05/19/23 16:43	375-92-8	N2
PFNS	ND	ug/L	0.0018	0.00056	1	05/16/23 13:50	05/19/23 16:43	68259-12-1	N2
PFOSA	ND	ug/L	0.0019	0.00069	1	05/16/23 13:50	05/19/23 16:43	754-91-6	N2
PFPeA	ND	ug/L	0.0019	0.00079	1	05/16/23 13:50	05/19/23 16:43	2706-90-3	N2
PFPeS	ND	ug/L	0.0018	0.00058	1	05/16/23 13:50	05/19/23 16:43	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/L	0.0019	0.00046	1	05/16/23 13:50	05/19/23 16:43	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/L	0.0019	0.00066	1	05/16/23 13:50	05/19/23 16:43	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/L	0.0017	0.00051	1	05/16/23 13:50	05/19/23 16:43	355-46-4	N2
Perfluorononanoic acid	ND	ug/L	0.0019	0.00076	1	05/16/23 13:50	05/19/23 16:43	375-95-1	N2
Perfluorooctanesulfonic acid	ND	ug/L	0.0018	0.00064	1	05/16/23 13:50	05/19/23 16:43	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/L	0.0019	0.00083	1	05/16/23 13:50	05/19/23 16:43	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/L	0.0019	0.00058	1	05/16/23 13:50	05/19/23 16:43	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/L	0.0019	0.00060	1	05/16/23 13:50	05/19/23 16:43	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/L	0.0019	0.00047	1	05/16/23 13:50	05/19/23 16:43	2058-94-8	N2
<b>Surrogates</b>									
13C4-PFBA (S)	92	%	25-150		1	05/16/23 13:50	05/19/23 16:43	375-22-4	
13C5-PFPeA (S)	100	%	25-150		1	05/16/23 13:50	05/19/23 16:43	2706-90-3	
13C3-PFBS (S)	102	%	25-150		1	05/16/23 13:50	05/19/23 16:43	375-73-5	
13C24:2FTS (S)	102	%	25-150		1	05/16/23 13:50	05/19/23 16:43		
13C3HFPO-DA (S)	106	%	25-150		1	05/16/23 13:50	05/19/23 16:43		
13C4-PFHpA (S)	102	%	25-150		1	05/16/23 13:50	05/19/23 16:43	375-85-9	
13C3-PFHxS (S)	101	%	25-150		1	05/16/23 13:50	05/19/23 16:43	355-46-4	
13C26:2FTS (S)	98	%	25-150		1	05/16/23 13:50	05/19/23 16:43		
13C8-PFOA (S)	100	%	25-150		1	05/16/23 13:50	05/19/23 16:43	335-67-1	
13C8-PFOS (S)	96	%	25-150		1	05/16/23 13:50	05/19/23 16:43	1763-23-1	
13C9-PFNA (S)	101	%	25-150		1	05/16/23 13:50	05/19/23 16:43	375-95-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: E23-0254 Menomonie

Pace Project No.: 10652482

**Sample: MEWI-GW-FB1-FB-230508**    **Lab ID: 10652482009**    Collected: 05/08/23 16:00    Received: 05/09/23 11:54    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>WI ID NPW</b>									
Analytical Method: ENV-SOP-MIN4-0178    Preparation Method: ENV-SOP-MIN4-0178									
Pace Analytical Services - Minneapolis									
<b>Surrogates</b>									
13C6-PFDA (S)	106	%	25-150		1	05/16/23 13:50	05/19/23 16:43	335-76-2	
13C28:2FTS (S)	169	%	25-150		1	05/16/23 13:50	05/19/23 16:43		S3
d3-MeFOSAA (S)	77	%	25-150		1	05/16/23 13:50	05/19/23 16:43	2355-31-9	
13C7-PFUdA (S)	93	%	25-150		1	05/16/23 13:50	05/19/23 16:43	2058-94-8	
13C8-PFOSA (S)	70	%	25-150		1	05/16/23 13:50	05/19/23 16:43	754-91-6	
d5-EtFOSAA (S)	80	%	25-150		1	05/16/23 13:50	05/19/23 16:43	2991-50-6	
13C2-PFDoA (S)	90	%	25-150		1	05/16/23 13:50	05/19/23 16:43		
d3-NMeFOSA (S)	0	%	10-150		1	05/16/23 13:50	05/19/23 16:43	31506-32-8	S0
d7-NMeFOSE (S)	35	%	10-150		1	05/16/23 13:50	05/19/23 16:43	24448-09-7	
13C2-PFTA (S)	84	%	25-150		1	05/16/23 13:50	05/19/23 16:43		
d9-NEtFOSE (S)	27	%	10-150		1	05/16/23 13:50	05/19/23 16:43	1691-99-2	
d5-NEtFOSA (S)	0	%	10-150		1	05/16/23 13:50	05/19/23 16:43	4151-50-2	S0
13C5-PFHxA (S)	99	%	25-150		1	05/16/23 13:50	05/19/23 16:43	307-24-4	

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### ANALYTICAL RESULTS

Project: E23-0254 Menomonie

Pace Project No.: 10652482

Sample: MEWI-GW-EB1--EB-230509 Lab ID: 10652482010 Collected: 05/09/23 09:00 Received: 05/09/23 11:54 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>WI ID NPW</b>									
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178									
Pace Analytical Services - Minneapolis									
11CI-PF3OUdS	ND	ug/L	0.0019	0.00055	1	05/16/23 13:50	05/19/23 16:51	763051-92-9	N2
4:2 FTS	ND	ug/L	0.0018	0.00046	1	05/16/23 13:50	05/19/23 16:51	757124-72-4	N2
6:2 FTS	ND	ug/L	0.0019	0.00066	1	05/16/23 13:50	05/19/23 16:51	27619-97-2	N2
8:2 FTS	ND	ug/L	0.0019	0.00050	1	05/16/23 13:50	05/19/23 16:51	39108-34-4	N2
9CI-PF3ONS	ND	ug/L	0.0018	0.00046	1	05/16/23 13:50	05/19/23 16:51	756426-58-1	N2
ADONA	ND	ug/L	0.0019	0.00090	1	05/16/23 13:50	05/19/23 16:51	919005-14-4	N2
HFPO-DA	ND	ug/L	0.0020	0.00049	1	05/16/23 13:50	05/19/23 16:51	13252-13-6	N2
NEtFOSAA	ND	ug/L	0.0020	0.00080	1	05/16/23 13:50	05/19/23 16:51	2991-50-6	N2
NEtFOSA	ND	ug/L	0.0020	0.00056	1	05/16/23 13:50	05/19/23 16:51	4151-50-2	N2
NEtFOSE	ND	ug/L	0.0020	0.00087	1	05/16/23 13:50	05/19/23 16:51	1691-99-2	N2
NMeFOSAA	ND	ug/L	0.0020	0.00068	1	05/16/23 13:50	05/19/23 16:51	2355-31-9	N2
NMeFOSA	ND	ug/L	0.0020	0.00054	1	05/16/23 13:50	05/19/23 16:51	31506-32-8	N2
NMeFOSE	ND	ug/L	0.0020	0.00051	1	05/16/23 13:50	05/19/23 16:51	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/L	0.0017	0.00048	1	05/16/23 13:50	05/19/23 16:51	375-73-5	N2
Perfluorodecanoic acid	ND	ug/L	0.0020	0.00060	1	05/16/23 13:50	05/19/23 16:51	335-76-2	N2
Perfluorohexanoic acid	ND	ug/L	0.0020	0.00090	1	05/16/23 13:50	05/19/23 16:51	307-24-4	N2
PFBA	ND	ug/L	0.0020	0.00049	1	05/16/23 13:50	05/19/23 16:51	375-22-4	N2
PFDS	ND	ug/L	0.0019	0.00063	1	05/16/23 13:50	05/19/23 16:51	335-77-3	N2
PFDoS	ND	ug/L	0.0019	0.00058	1	05/16/23 13:50	05/19/23 16:51	79780-39-5	N2
PFHpS	ND	ug/L	0.0019	0.00066	1	05/16/23 13:50	05/19/23 16:51	375-92-8	N2
PFNS	ND	ug/L	0.0019	0.00058	1	05/16/23 13:50	05/19/23 16:51	68259-12-1	N2
PFOSA	ND	ug/L	0.0020	0.00071	1	05/16/23 13:50	05/19/23 16:51	754-91-6	N2
PFPeA	ND	ug/L	0.0020	0.00081	1	05/16/23 13:50	05/19/23 16:51	2706-90-3	N2
PFPeS	ND	ug/L	0.0019	0.00059	1	05/16/23 13:50	05/19/23 16:51	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/L	0.0020	0.00047	1	05/16/23 13:50	05/19/23 16:51	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/L	0.0020	0.00068	1	05/16/23 13:50	05/19/23 16:51	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/L	0.0018	0.00052	1	05/16/23 13:50	05/19/23 16:51	355-46-4	N2
Perfluorononanoic acid	ND	ug/L	0.0020	0.00078	1	05/16/23 13:50	05/19/23 16:51	375-95-1	N2
Perfluorooctanesulfonic acid	ND	ug/L	0.0018	0.00066	1	05/16/23 13:50	05/19/23 16:51	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/L	0.0020	0.00085	1	05/16/23 13:50	05/19/23 16:51	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/L	0.0020	0.00059	1	05/16/23 13:50	05/19/23 16:51	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/L	0.0020	0.00061	1	05/16/23 13:50	05/19/23 16:51	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/L	0.0020	0.00048	1	05/16/23 13:50	05/19/23 16:51	2058-94-8	N2
<b>Surrogates</b>									
13C4-PFBA (S)	92	%	25-150		1	05/16/23 13:50	05/19/23 16:51	375-22-4	
13C5-PFPeA (S)	98	%	25-150		1	05/16/23 13:50	05/19/23 16:51	2706-90-3	
13C3-PFBS (S)	101	%	25-150		1	05/16/23 13:50	05/19/23 16:51	375-73-5	
13C24:2FTS (S)	101	%	25-150		1	05/16/23 13:50	05/19/23 16:51		
13C3HFPO-DA (S)	104	%	25-150		1	05/16/23 13:50	05/19/23 16:51		
13C4-PFHpA (S)	100	%	25-150		1	05/16/23 13:50	05/19/23 16:51	375-85-9	
13C3-PFHxS (S)	98	%	25-150		1	05/16/23 13:50	05/19/23 16:51	355-46-4	
13C26:2FTS (S)	104	%	25-150		1	05/16/23 13:50	05/19/23 16:51		
13C8-PFOA (S)	102	%	25-150		1	05/16/23 13:50	05/19/23 16:51	335-67-1	
13C8-PFOS (S)	99	%	25-150		1	05/16/23 13:50	05/19/23 16:51	1763-23-1	
13C9-PFNA (S)	101	%	25-150		1	05/16/23 13:50	05/19/23 16:51	375-95-1	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: E23-0254 Menomonie

Pace Project No.: 10652482

**Sample: MEWI-GW-EB1--EB-230509**    **Lab ID: 10652482010**    Collected: 05/09/23 09:00    Received: 05/09/23 11:54    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>WI ID NPW</b>									
Analytical Method: ENV-SOP-MIN4-0178    Preparation Method: ENV-SOP-MIN4-0178									
Pace Analytical Services - Minneapolis									
<b>Surrogates</b>									
13C6-PFDA (S)	110	%	25-150		1	05/16/23 13:50	05/19/23 16:51	335-76-2	
13C28:2FTS (S)	156	%	25-150		1	05/16/23 13:50	05/19/23 16:51		S3
d3-MeFOSAA (S)	48	%	25-150		1	05/16/23 13:50	05/19/23 16:51	2355-31-9	
13C7-PFUdA (S)	106	%	25-150		1	05/16/23 13:50	05/19/23 16:51	2058-94-8	
13C8-PFOSA (S)	23	%	25-150		1	05/16/23 13:50	05/19/23 16:51	754-91-6	S0
d5-EtFOSAA (S)	94	%	25-150		1	05/16/23 13:50	05/19/23 16:51	2991-50-6	
13C2-PFDoA (S)	91	%	25-150		1	05/16/23 13:50	05/19/23 16:51		
d3-NMeFOSA (S)	37	%	10-150		1	05/16/23 13:50	05/19/23 16:51	31506-32-8	
d7-NMeFOSE (S)	79	%	10-150		1	05/16/23 13:50	05/19/23 16:51	24448-09-7	
13C2-PFTA (S)	98	%	25-150		1	05/16/23 13:50	05/19/23 16:51		
d9-NEtFOSE (S)	75	%	10-150		1	05/16/23 13:50	05/19/23 16:51	1691-99-2	
d5-NEtFOSA (S)	35	%	10-150		1	05/16/23 13:50	05/19/23 16:51	4151-50-2	
13C5-PFHxA (S)	99	%	25-150		1	05/16/23 13:50	05/19/23 16:51	307-24-4	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: E23-0254 Menomonie  
Pace Project No.: 10652482

QC Batch: 880080 Analysis Method: ENV-SOP-MIN4-0178  
QC Batch Method: ENV-SOP-MIN4-0178 Analysis Description: WI ID NPW  
Laboratory: Pace Analytical Services - Minneapolis  
Associated Lab Samples: 10652482001, 10652482002, 10652482003, 10652482004, 10652482005, 10652482008, 10652482009, 10652482010

METHOD BLANK: 4638791 Matrix: Water  
Associated Lab Samples: 10652482001, 10652482002, 10652482003, 10652482004, 10652482005, 10652482008, 10652482009, 10652482010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ug/L	ND	0.0018	05/19/23 13:50	N2
4:2 FTS	ug/L	ND	0.0018	05/19/23 13:50	N2
6:2 FTS	ug/L	ND	0.0018	05/19/23 13:50	N2
8:2 FTS	ug/L	ND	0.0019	05/19/23 13:50	N2
9Cl-PF3ONS	ug/L	ND	0.0018	05/19/23 13:50	N2
ADONA	ug/L	ND	0.0018	05/19/23 13:50	N2
HFPO-DA	ug/L	ND	0.0019	05/19/23 13:50	N2
NEtFOSA	ug/L	ND	0.0019	05/19/23 13:50	N2
NEtFOSAA	ug/L	ND	0.0019	05/19/23 13:50	N2
NEtFOSE	ug/L	ND	0.0019	05/19/23 13:50	N2
NMeFOSA	ug/L	ND	0.0019	05/19/23 13:50	N2
NMeFOSAA	ug/L	ND	0.0019	05/19/23 13:50	N2
NMeFOSE	ug/L	ND	0.0019	05/19/23 13:50	N2
Perfluorobutanesulfonic acid	ug/L	ND	0.0017	05/19/23 13:50	N2
Perfluorodecanoic acid	ug/L	ND	0.0019	05/19/23 13:50	N2
Perfluorododecanoic acid	ug/L	ND	0.0019	05/19/23 13:50	N2
Perfluoroheptanoic acid	ug/L	ND	0.0019	05/19/23 13:50	N2
Perfluorohexanesulfonic acid	ug/L	ND	0.0018	05/19/23 13:50	N2
Perfluorohexanoic acid	ug/L	ND	0.0019	05/19/23 13:50	N2
Perfluorononanoic acid	ug/L	ND	0.0019	05/19/23 13:50	N2
Perfluorooctanesulfonic acid	ug/L	ND	0.0018	05/19/23 13:50	N2
Perfluorooctanoic acid	ug/L	ND	0.0019	05/19/23 13:50	N2
Perfluorotetradecanoic acid	ug/L	ND	0.0019	05/19/23 13:50	N2
Perfluorotridecanoic acid	ug/L	ND	0.0019	05/19/23 13:50	N2
Perfluoroundecanoic acid	ug/L	ND	0.0019	05/19/23 13:50	N2
PFBA	ug/L	ND	0.0019	05/19/23 13:50	N2
PFDoS	ug/L	ND	0.0019	05/19/23 13:50	N2
PFDS	ug/L	ND	0.0019	05/19/23 13:50	N2
PFHpS	ug/L	ND	0.0018	05/19/23 13:50	N2
PFNS	ug/L	ND	0.0019	05/19/23 13:50	N2
PFOSA	ug/L	ND	0.0019	05/19/23 13:50	N2
PFPeA	ug/L	ND	0.0019	05/19/23 13:50	N2
PFPeS	ug/L	ND	0.0018	05/19/23 13:50	N2
13C2-PFDoA (S)	%	88	25-150	05/19/23 13:50	
13C2-PFTA (S)	%	83	25-150	05/19/23 13:50	
13C24:2FTS (S)	%	91	25-150	05/19/23 13:50	
13C26:2FTS (S)	%	94	25-150	05/19/23 13:50	
13C28:2FTS (S)	%	110	25-150	05/19/23 13:50	
13C3-PFBS (S)	%	93	25-150	05/19/23 13:50	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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### QUALITY CONTROL DATA

Project: E23-0254 Menomonie

Pace Project No.: 10652482

METHOD BLANK: 4638791

Matrix: Water

Associated Lab Samples: 10652482001, 10652482002, 10652482003, 10652482004, 10652482005, 10652482008, 10652482009, 10652482010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C3-PFHxS (S)	%	94	25-150	05/19/23 13:50	
13C3HFPO-DA (S)	%	94	25-150	05/19/23 13:50	
13C4-PFBA (S)	%	83	25-150	05/19/23 13:50	
13C4-PFHxA (S)	%	93	25-150	05/19/23 13:50	
13C5-PFHxA (S)	%	91	25-150	05/19/23 13:50	
13C5-PFPeA (S)	%	90	25-150	05/19/23 13:50	
13C6-PFDA (S)	%	95	25-150	05/19/23 13:50	
13C7-PFUdA (S)	%	91	25-150	05/19/23 13:50	
13C8-PFOA (S)	%	92	25-150	05/19/23 13:50	
13C8-PFOS (S)	%	91	25-150	05/19/23 13:50	
13C8-PFOSA (S)	%	74	25-150	05/19/23 13:50	
13C9-PFNA (S)	%	89	25-150	05/19/23 13:50	
d3-MeFOSAA (S)	%	76	25-150	05/19/23 13:50	
d3-NMeFOSA (S)	%	46	20-150	05/19/23 13:50	
d5-EtFOSAA (S)	%	77	25-150	05/19/23 13:50	
d5-NEtFOSA (S)	%	45	20-150	05/19/23 13:50	
d7-NMeFOSE (S)	%	67	20-150	05/19/23 13:50	
d9-NEtFOSE (S)	%	62	20-150	05/19/23 13:50	

LABORATORY CONTROL SAMPLE & LCSD: 4638792

4644210

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
11CI-PF3OUdS	ug/L	0.0038	0.0032	0.0035	84	93	50-150	10	30	N2
4:2 FTS	ug/L	0.0037	0.0032	0.0033	86	90	50-150	4	30	N2
6:2 FTS	ug/L	0.0038	0.0036	0.0032	96	85	50-150	12	30	N2
8:2 FTS	ug/L	0.0038	0.0029	0.0033	76	87	50-150	13	30	N2
9CI-PF3ONS	ug/L	0.0037	0.0033	0.0036	88	96	50-150	8	30	N2
ADONA	ug/L	0.0038	0.0034	0.0033	91	88	50-150	4	30	N2
HFPO-DA	ug/L	0.004	0.0034	0.0036	85	90	50-150	5	30	N2
NEtFOSA	ug/L	0.004	0.0034	0.0037	85	92	50-150	8	30	N2
NEtFOSAA	ug/L	0.004	0.0037	0.0037	94	94	50-150	1	30	N2
NEtFOSE	ug/L	0.004	0.0038	0.0035	95	88	50-150	8	30	N2
NMeFOSA	ug/L	0.004	0.0037	0.0040	94	102	50-150	7	30	N2
NMeFOSAA	ug/L	0.004	0.0039	0.0035	99	88	50-150	13	30	N2
NMeFOSE	ug/L	0.004	0.0034	0.0038	86	95	50-150	9	30	N2
Perfluorobutanesulfonic acid	ug/L	0.0035	0.0031	0.0033	89	93	50-150	3	30	N2
Perfluorodecanoic acid	ug/L	0.004	0.0035	0.0038	87	97	50-150	10	30	N2
Perfluorododecanoic acid	ug/L	0.004	0.0036	0.0035	90	89	50-150	2	30	N2
Perfluoroheptanoic acid	ug/L	0.004	0.0036	0.0036	90	90	50-150	0	30	N2
Perfluorohexanesulfonic acid	ug/L	0.0037	0.0032	0.0034	87	94	50-150	7	30	N2
Perfluorohexanoic acid	ug/L	0.004	0.0036	0.0036	90	91	50-150	1	30	N2
Perfluorononanoic acid	ug/L	0.004	0.0035	0.0036	87	92	50-150	5	30	N2
Perfluorooctanesulfonic acid	ug/L	0.0037	0.0034	0.0040	90	109	50-150	18	30	N2

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: E23-0254 Menomonie  
Pace Project No.: 10652482

LABORATORY CONTROL SAMPLE & LCSD:		4638792	4644210								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Perfluorooctanoic acid	ug/L	0.004	0.0038	0.0036	95	92	50-150	5	30	N2	
Perfluorotetradecanoic acid	ug/L	0.004	0.0037	0.0039	94	98	50-150	4	30	N2	
Perfluorotridecanoic acid	ug/L	0.004	0.0035	0.0039	89	98	50-150	9	30	N2	
Perfluoroundecanoic acid	ug/L	0.004	0.0039	0.0037	97	94	50-150	4	30	N2	
PFBA	ug/L	0.004	0.0035	0.0036	89	91	50-150	2	30	N2	
PFDoS	ug/L	0.0039	0.0033	0.0036	86	94	50-150	7	30	N2	
PFDS	ug/L	0.0038	0.0034	0.0035	88	91	50-150	2	30	N2	
PFHpS	ug/L	0.0038	0.0033	0.0036	87	96	50-150	9	30	N2	
PFNS	ug/L	0.0038	0.0033	0.0037	87	98	50-150	11	30	N2	
PFOSA	ug/L	0.004	0.0035	0.0036	89	91	50-150	2	30	N2	
PFPeA	ug/L	0.004	0.0035	0.0036	88	91	50-150	3	30	N2	
PFPeS	ug/L	0.0037	0.0032	0.0033	86	90	50-150	3	30	N2	
13C2-PFDoA (S)	%				92	95	25-150				
13C2-PFTA (S)	%				91	92	25-150				
13C24:2FTS (S)	%				96	99	25-150				
13C26:2FTS (S)	%				96	98	25-150				
13C28:2FTS (S)	%				140	113	25-150				
13C3-PFBS (S)	%				98	101	25-150				
13C3-PFHxS (S)	%				98	99	25-150				
13C3HFPO-DA (S)	%				103	103	25-150				
13C4-PFBA (S)	%				89	91	25-150				
13C4-PFHpA (S)	%				99	99	25-150				
13C5-PFHxA (S)	%				98	100	25-150				
13C5-PFPeA (S)	%				96	97	25-150				
13C6-PFDA (S)	%				105	102	25-150				
13C7-PFUdA (S)	%				91	95	25-150				
13C8-PFOA (S)	%				97	104	25-150				
13C8-PFOS (S)	%				95	92	25-150				
13C8-PFOSA (S)	%				82	86	25-150				
13C9-PFNA (S)	%				96	96	25-150				
d3-MeFOSAA (S)	%				78	89	25-150				
d3-NMeFOSA (S)	%				49	55	20-150				
d5-EtFOSAA (S)	%				83	86	25-150				
d5-NEtFOSA (S)	%				49	61	20-150				
d7-NMeFOSE (S)	%				74	78	20-150				
d9-NEtFOSE (S)	%				69	76	20-150				

MATRIX SPIKE SAMPLE:		4644211	10652482001	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers	
11CI-PF3OUdS	ug/L	ND	0.0037	0.0027	72	50-150	N2	
4:2 FTS	ug/L	ND	0.0037	0.0032	86	50-150	N2	
6:2 FTS	ug/L	ND	0.0038	0.0048	99	50-150	N2	
8:2 FTS	ug/L	ND	0.0038	0.0035	90	50-150	N2	
9CI-PF3ONS	ug/L	ND	0.0037	0.0028	76	50-150	N2	

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### QUALITY CONTROL DATA

Project: E23-0254 Menomonie

Pace Project No.: 10652482

MATRIX SPIKE SAMPLE: 4644211		10652482001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
ADONA	ug/L	ND	0.0037	0.0029	78	50-150	N2
HFPO-DA	ug/L	ND	0.004	0.0033	84	50-150	N2
NEtFOSA	ug/L	ND	0.004	0.0043	107	50-150	N2
NEtFOSAA	ug/L	ND	0.004	0.0039	98	50-150	N2
NEtFOSE	ug/L	ND	0.004	0.0033	84	50-150	N2
NMeFOSA	ug/L	ND	0.004	0.0036	89	50-150	N2
NMeFOSAA	ug/L	ND	0.004	0.0035	80	50-150	N2
NMeFOSE	ug/L	ND	0.004	0.0033	84	50-150	N2
Perfluorobutanesulfonic acid	ug/L	ND	0.0035	0.0039	86	50-150	N2
Perfluorodecanoic acid	ug/L	ND	0.004	0.0033	82	50-150	N2
Perfluorododecanoic acid	ug/L	ND	0.004	0.0034	86	50-150	N2
Perfluoroheptanoic acid	ug/L	ND	0.004	0.0034	85	50-150	N2
Perfluorohexanesulfonic acid	ug/L	ND	0.0036	0.0039	78	50-150	N2
Perfluorohexanoic acid	ug/L	ND	0.004	0.0034	87	50-150	N2
Perfluorononanoic acid	ug/L	ND	0.004	0.0034	86	50-150	N2
Perfluorooctanesulfonic acid	ug/L	ND	0.0037	0.0031	79	50-150	N2
Perfluorooctanoic acid	ug/L	ND	0.004	0.0035	81	50-150	N2
Perfluorotetradecanoic acid	ug/L	ND	0.004	0.0034	85	50-150	N2
Perfluorotridecanoic acid	ug/L	ND	0.004	0.0031	78	50-150	N2
Perfluoroundecanoic acid	ug/L	ND	0.004	0.0032	81	50-150	N2
PFBA	ug/L	0.0052	0.004	0.0088	91	50-150	N2
PFDoS	ug/L	ND	0.0038	0.0026	69	50-150	N2
PFDS	ug/L	ND	0.0038	0.0029	77	50-150	N2
PFHpS	ug/L	ND	0.0038	0.0031	80	50-150	N2
PFNS	ug/L	ND	0.0038	0.0031	80	50-150	N2
PFOSA	ug/L	ND	0.004	0.0030	75	50-150	N2
PFPeA	ug/L	ND	0.004	0.0043	90	50-150	N2
PFPeS	ug/L	ND	0.0037	0.0031	83	50-150	N2
13C2-PFDoS (S)	%				119	25-150	
13C2-PFTA (S)	%				100	25-150	
13C24:2FTS (S)	%				108	25-150	
13C26:2FTS (S)	%				115	25-150	
13C28:2FTS (S)	%				123	25-150	
13C3-PFBS (S)	%				105	25-150	
13C3-PFHxS (S)	%				110	25-150	
13C3HFPO-DA (S)	%				103	25-150	
13C4-PFBA (S)	%				88	25-150	
13C4-PFHpA (S)	%				112	25-150	
13C5-PFHxA (S)	%				107	25-150	
13C5-PFPeA (S)	%				106	25-150	
13C6-PFDA (S)	%				115	25-150	
13C7-PFUdA (S)	%				107	25-150	
13C8-PFOA (S)	%				116	25-150	
13C8-PFOS (S)	%				108	25-150	
13C8-PFOA (S)	%				81	25-150	
13C9-PFNA (S)	%				114	25-150	
d3-MeFOSAA (S)	%				103	25-150	

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### QUALITY CONTROL DATA

Project: E23-0254 Menomonie

Pace Project No.: 10652482

MATRIX SPIKE SAMPLE: 4644211		10652482001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
d3-NMeFOSA (S)	%				4	10-150	S0
d5-EtFOSAA (S)	%				88	25-150	
d5-NEtFOSA (S)	%				3	10-150	S0
d7-NMeFOSE (S)	%				50	10-150	
d9-NEtFOSE (S)	%				43	10-150	

SAMPLE DUPLICATE: 4644212

Parameter	Units	10652482002	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
11CI-PF3OUdS	ug/L	ND	ND		30	N2
4:2 FTS	ug/L	ND	ND		30	N2
6:2 FTS	ug/L	ND	ND		30	N2
8:2 FTS	ug/L	ND	ND		30	N2
9CI-PF3ONS	ug/L	ND	ND		30	N2
ADONA	ug/L	ND	ND		30	N2
HFPO-DA	ug/L	ND	ND		30	N2
NEtFOSA	ug/L	ND	ND		30	N2
NEtFOSAA	ug/L	ND	ND		30	N2
NEtFOSE	ug/L	ND	ND		30	N2
NMeFOSA	ug/L	ND	ND		30	N2
NMeFOSAA	ug/L	ND	ND		30	N2
NMeFOSE	ug/L	ND	ND		30	N2
Perfluorobutanesulfonic acid	ug/L	ND	ND		30	N2
Perfluorodecanoic acid	ug/L	ND	ND		30	N2
Perfluorododecanoic acid	ug/L	ND	ND		30	N2
Perfluoroheptanoic acid	ug/L	ND	ND		30	N2
Perfluorohexanesulfonic acid	ug/L	0.23	0.23	1	30	N2
Perfluorohexanoic acid	ug/L	ND	ND		30	N2
Perfluorononanoic acid	ug/L	ND	ND		30	N2
Perfluorooctanesulfonic acid	ug/L	0.20	0.22	10	30	N2
Perfluorooctanoic acid	ug/L	ND	0.020		30	N2
Perfluorotetradecanoic acid	ug/L	ND	ND		30	N2
Perfluorotridecanoic acid	ug/L	ND	ND		30	N2
Perfluoroundecanoic acid	ug/L	ND	ND		30	N2
PFBA	ug/L	ND	.0083J		30	N2
PFDoS	ug/L	ND	ND		30	N2
PFDS	ug/L	ND	ND		30	N2
PFHpS	ug/L	0.022	0.025	15	30	N2
PFNS	ug/L	ND	ND		30	N2
PFOSA	ug/L	ND	ND		30	N2
PFPeA	ug/L	ND	ND		30	N2
PFPeS	ug/L	ND	.0059J		30	N2
13C2-PFDoA (S)	%	79	71			
13C2-PFTA (S)	%	67	69			
13C24:2FTS (S)	%	84	83			

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### QUALITY CONTROL DATA

Project: E23-0254 Menomonie

Pace Project No.: 10652482

SAMPLE DUPLICATE: 4644212

Parameter	Units	10652482002 Result	Dup Result	RPD	Max RPD	Qualifiers
13C26:2FTS (S)	%.	71	79			
13C28:2FTS (S)	%.	81	93			
13C3-PFBS (S)	%.	83	75			
13C3-PFHxS (S)	%.	80	77			
13C3HFPO-DA (S)	%.	88	77			
13C4-PFBA (S)	%.	74	69			
13C4-PFHpA (S)	%.	82	74			
13C5-PFHxA (S)	%.	78	73			
13C5-PFPeA (S)	%.	77	72			
13C6-PFDA (S)	%.	86	74			
13C7-PFUdA (S)	%.	78	75			
13C8-PFOA (S)	%.	81	76			
13C8-PFOS (S)	%.	79	66			
13C8-PFOSA (S)	%.	46	50			
13C9-PFNA (S)	%.	80	75			
d3-MeFOSAA (S)	%.	70	69			
d3-NMeFOSA (S)	%.	2	2			S4
d5-EtFOSAA (S)	%.	74	62			
d5-NEtFOSA (S)	%.	2	2			S4
d7-NMeFOSE (S)	%.	24	37			
d9-NEtFOSE (S)	%.	26	25			

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### QUALITY CONTROL DATA

Project: E23-0254 Menomonie  
Pace Project No.: 10652482

QC Batch: 882967      Analysis Method: ENV-SOP-MIN4-0178  
QC Batch Method: ENV-SOP-MIN4-0178      Analysis Description: WI ID NPW  
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10652482006, 10652482007

METHOD BLANK: 4652494      Matrix: Water

Associated Lab Samples: 10652482006, 10652482007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11CI-PF3OUdS	ug/L	ND	0.0019	06/07/23 01:33	N2
4:2 FTS	ug/L	ND	0.0019	06/07/23 01:33	N2
6:2 FTS	ug/L	ND	0.0019	06/07/23 01:33	N2
8:2 FTS	ug/L	ND	0.0019	06/07/23 01:33	N2
9CI-PF3ONS	ug/L	ND	0.0019	06/07/23 01:33	N2
ADONA	ug/L	ND	0.0019	06/07/23 01:33	N2
HFPO-DA	ug/L	ND	0.0020	06/07/23 01:33	N2
NEtFOSA	ug/L	ND	0.0020	06/07/23 01:33	N2
NEtFOSAA	ug/L	ND	0.0020	06/07/23 01:33	N2
NEtFOSE	ug/L	ND	0.0020	06/07/23 01:33	N2
NMeFOSA	ug/L	ND	0.0020	06/07/23 01:33	N2
NMeFOSAA	ug/L	ND	0.0020	06/07/23 01:33	N2
NMeFOSE	ug/L	ND	0.0020	06/07/23 01:33	N2
Perfluorobutanesulfonic acid	ug/L	ND	0.0018	06/07/23 01:33	N2
Perfluorodecanoic acid	ug/L	ND	0.0020	06/07/23 01:33	N2
Perfluorododecanoic acid	ug/L	ND	0.0020	06/07/23 01:33	N2
Perfluoroheptanoic acid	ug/L	ND	0.0020	06/07/23 01:33	N2
Perfluorohexanesulfonic acid	ug/L	ND	0.0018	06/07/23 01:33	N2
Perfluorohexanoic acid	ug/L	ND	0.0020	06/07/23 01:33	N2
Perfluorononanoic acid	ug/L	ND	0.0020	06/07/23 01:33	N2
Perfluorooctanesulfonic acid	ug/L	ND	0.0019	06/07/23 01:33	N2
Perfluorooctanoic acid	ug/L	ND	0.0020	06/07/23 01:33	N2
Perfluorotetradecanoic acid	ug/L	ND	0.0020	06/07/23 01:33	N2
Perfluorotridecanoic acid	ug/L	ND	0.0020	06/07/23 01:33	N2
Perfluoroundecanoic acid	ug/L	ND	0.0020	06/07/23 01:33	N2
PFBA	ug/L	ND	0.0020	06/07/23 01:33	N2
PFDoS	ug/L	ND	0.0019	06/07/23 01:33	N2
PFDS	ug/L	ND	0.0019	06/07/23 01:33	N2
PFHpS	ug/L	ND	0.0019	06/07/23 01:33	N2
PFNS	ug/L	ND	0.0019	06/07/23 01:33	N2
PFOSA	ug/L	ND	0.0020	06/07/23 01:33	N2
PFPeA	ug/L	ND	0.0020	06/07/23 01:33	N2
PFPeS	ug/L	ND	0.0019	06/07/23 01:33	N2
13C2-PFDoA (S)	%	57	25-150	06/07/23 01:33	
13C2-PFTA (S)	%	50	25-150	06/07/23 01:33	
13C24:2FTS (S)	%	69	25-150	06/07/23 01:33	
13C26:2FTS (S)	%	59	25-150	06/07/23 01:33	
13C28:2FTS (S)	%	48	25-150	06/07/23 01:33	
13C2PFHxDA (S)	%	47	25-150	06/07/23 01:33	
13C3-PFBS (S)	%	63	25-150	06/07/23 01:33	

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### QUALITY CONTROL DATA

Project: E23-0254 Menomonie  
Pace Project No.: 10652482

METHOD BLANK: 4652494 Matrix: Water

Associated Lab Samples: 10652482006, 10652482007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C3-PFHxS (S)	%	62	25-150	06/07/23 01:33	
13C3HFPO-DA (S)	%	68	25-150	06/07/23 01:33	
13C4-PFBA (S)	%	57	25-150	06/07/23 01:33	
13C4-PFHpA (S)	%	59	25-150	06/07/23 01:33	
13C5-PFHxA (S)	%	64	25-150	06/07/23 01:33	
13C5-PFPeA (S)	%	62	25-150	06/07/23 01:33	
13C6-PFDA (S)	%	63	25-150	06/07/23 01:33	
13C7-PFUdA (S)	%	54	25-150	06/07/23 01:33	
13C8-PFOA (S)	%	59	25-150	06/07/23 01:33	
13C8-PFOS (S)	%	63	25-150	06/07/23 01:33	
13C8-PFOSA (S)	%	52	25-150	06/07/23 01:33	
13C9-PFNA (S)	%	59	25-150	06/07/23 01:33	
d3-MeFOSAA (S)	%	52	25-150	06/07/23 01:33	
d3-NMeFOSA (S)	%	18	20-150	06/07/23 01:33	S0
d5-EtFOSAA (S)	%	54	25-150	06/07/23 01:33	
d5-NEtFOSA (S)	%	18	20-150	06/07/23 01:33	S0
d7-NMeFOSE (S)	%	43	20-150	06/07/23 01:33	
d9-NEtFOSE (S)	%	40	20-150	06/07/23 01:33	

LABORATORY CONTROL SAMPLE & LCSD: 4652495

4653626

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
11CI-PF3OUdS	ug/L	0.0038	0.0034	0.0036	90	96	50-150	5	30	N2
4:2 FTS	ug/L	0.0038	0.0039	0.0037	103	101	50-150	4	30	N2
6:2 FTS	ug/L	0.0038	0.0031	0.0036	80	96	50-150	16	30	N2
8:2 FTS	ug/L	0.0039	0.0032	0.0035	83	93	50-150	9	30	N2
9CI-PF3ONS	ug/L	0.0038	0.0036	0.0036	95	97	50-150	0	30	N2
ADONA	ug/L	0.0038	0.0041	0.0042	107	111	50-150	2	30	N2
HFPO-DA	ug/L	0.004	0.0041	0.0039	102	98	50-150	6	30	N2
NEtFOSA	ug/L	0.004	0.0041	0.0040	102	100	50-150	3	30	N2
NEtFOSAA	ug/L	0.004	0.0034	0.0036	83	90	50-150	6	30	N2
NEtFOSE	ug/L	0.004	0.0040	0.0039	99	99	50-150	2	30	N2
NMeFOSA	ug/L	0.004	0.0039	0.0039	96	99	50-150	1	30	N2
NMeFOSAA	ug/L	0.004	0.0039	0.0036	97	90	50-150	10	30	N2
NMeFOSE	ug/L	0.004	0.0042	0.0039	104	98	50-150	8	30	N2
Perfluorobutanesulfonic acid	ug/L	0.0036	0.0036	0.0036	101	103	50-150	0	30	N2
Perfluorodecanoic acid	ug/L	0.004	0.0042	0.0042	104	104	50-150	1	30	N2
Perfluorododecanoic acid	ug/L	0.004	0.0040	0.0041	99	102	50-150	1	30	N2
Perfluoroheptanoic acid	ug/L	0.004	0.0042	0.0042	105	105	50-150	2	30	N2
Perfluorohexanesulfonic acid	ug/L	0.0037	0.0036	0.0035	98	97	50-150	2	30	N2
Perfluorohexanoic acid	ug/L	0.004	0.0038	0.0039	95	97	50-150	1	30	N2
Perfluorononanoic acid	ug/L	0.004	0.0040	0.0041	100	102	50-150	0	30	N2
Perfluorooctanesulfonic acid	ug/L	0.0038	0.0039	0.0036	103	98	50-150	6	30	N2
Perfluorooctanoic acid	ug/L	0.004	0.0041	0.0044	103	110	50-150	6	30	N2

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### QUALITY CONTROL DATA

Project: E23-0254 Menomonie  
Pace Project No.: 10652482

LABORATORY CONTROL SAMPLE & LCSD: 4652495		4653626									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Perfluorotetradecanoic acid	ug/L	0.004	0.0043	0.0040	106	102	50-150	5	30	N2	
Perfluorotridecanoic acid	ug/L	0.004	0.0040	0.0039	98	99	50-150	1	30	N2	
Perfluoroundecanoic acid	ug/L	0.004	0.0039	0.0039	97	98	50-150	1	30	N2	
PFBA	ug/L	0.004	0.0040	0.0040	100	101	50-150	0	30	N2	
PFDoS	ug/L	0.0039	0.0033	0.0035	85	91	50-150	4	30	N2	
PFDS	ug/L	0.0039	0.0037	0.0037	96	97	50-150	1	30	N2	
PFHpS	ug/L	0.0039	0.0031	0.0031	81	81	50-150	1	30	N2	
PFNS	ug/L	0.0039	0.0037	0.0034	95	89	50-150	9	30	N2	
PFOSA	ug/L	0.004	0.0040	0.0039	99	99	50-150	2	30	N2	
PFPeA	ug/L	0.004	0.0038	0.0038	94	95	50-150	1	30	N2	
PFPeS	ug/L	0.0038	0.0037	0.0037	97	99	50-150	0	30	N2	
13C2-PFDoA (S)	%				70	69	25-150				
13C2-PFTA (S)	%				66	66	25-150				
13C24:2FTS (S)	%				83	88	25-150				
13C26:2FTS (S)	%				81	78	25-150				
13C28:2FTS (S)	%				63	64	25-150				
13C2PFHxDA (S)	%				67	67	25-150				
13C3-PFBS (S)	%				78	78	25-150				
13C3-PFHxS (S)	%				80	80	25-150				
13C3HFPO-DA (S)	%				83	86	25-150				
13C4-PFBA (S)	%				71	72	25-150				
13C4-PFHpA (S)	%				74	73	25-150				
13C5-PFHxA (S)	%				80	80	25-150				
13C5-PFPeA (S)	%				78	78	25-150				
13C6-PFDA (S)	%				78	80	25-150				
13C7-PFUdA (S)	%				72	69	25-150				
13C8-PFOA (S)	%				73	72	25-150				
13C8-PFOS (S)	%				83	79	25-150				
13C8-PFOSA (S)	%				74	72	25-150				
13C9-PFNA (S)	%				73	76	25-150				
d3-MeFOSAA (S)	%				69	66	25-150				
d3-NMeFOSA (S)	%				61	61	20-150				
d5-EtFOSAA (S)	%				75	74	25-150				
d5-NEtFOSA (S)	%				61	66	20-150				
d7-NMeFOSE (S)	%				73	71	20-150				
d9-NEtFOSE (S)	%				65	70	20-150				

MATRIX SPIKE SAMPLE: 4653627		10652482006							
Parameter	Units	Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers		
11CI-PF3OUdS	ug/L	ND	0.0037	ND	86	50-150	N2		
4:2 FTS	ug/L	ND	0.0036	ND	100	50-150	N2		
6:2 FTS	ug/L	ND	0.0037	ND	117	50-150	N2		
8:2 FTS	ug/L	ND	0.0037	ND	106	50-150	N2		
9CI-PF3ONS	ug/L	ND	0.0036	ND	101	50-150	N2		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: E23-0254 Menomonie  
Pace Project No.: 10652482

MATRIX SPIKE SAMPLE: 4653627		10652482006	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
ADONA	ug/L	ND	0.0037	ND	112	50-150	N2
HFPO-DA	ug/L	ND	0.0039	ND	102	50-150	N2
NEtFOSA	ug/L	ND	0.0039	.0085J	194	50-150	M1,N2
NEtFOSAA	ug/L	ND	0.0039	ND	139	50-150	N2
NEtFOSE	ug/L	ND	0.0039	ND	71	50-150	N2
NMeFOSA	ug/L	ND	0.0039	ND	72	50-150	N2
NMeFOSAA	ug/L	ND	0.0039	ND	124	50-150	N2
NMeFOSE	ug/L	ND	0.0039	ND	99	50-150	N2
Perfluorobutanesulfonic acid	ug/L	ND	0.0034	.014J	103	50-150	N2
Perfluorodecanoic acid	ug/L	ND	0.0039	ND	105	50-150	N2
Perfluorododecanoic acid	ug/L	ND	0.0039	ND	102	50-150	N2
Perfluoroheptanoic acid	ug/L	ND	0.0039	ND	105	50-150	N2
Perfluorohexanesulfonic acid	ug/L	0.080	0.0035	0.085	144	50-150	N2
Perfluorohexanoic acid	ug/L	ND	0.0039	.0097J	105	50-150	N2
Perfluorononanoic acid	ug/L	ND	0.0039	ND	98	50-150	N2
Perfluorooctanesulfonic acid	ug/L	0.35	0.0036	0.37	607	50-150	M1,N2
Perfluorooctanoic acid	ug/L	ND	0.0039	.014J	164	50-150	M1,N2
Perfluorotetradecanoic acid	ug/L	ND	0.0039	ND	92	50-150	N2
Perfluorotridecanoic acid	ug/L	ND	0.0039	ND	92	50-150	N2
Perfluoroundecanoic acid	ug/L	ND	0.0039	ND	95	50-150	N2
PFBA	ug/L	0.022	0.0039	0.028	159	50-150	M1,N2
PFDoS	ug/L	ND	0.0038	ND	101	50-150	N2
PFDS	ug/L	ND	0.0037	ND	72	50-150	N2
PFHpS	ug/L	ND	0.0037	ND	106	50-150	N2
PFNS	ug/L	ND	0.0037	ND	112	50-150	N2
PFOSA	ug/L	ND	0.0039	ND	108	50-150	N2
PFPeA	ug/L	ND	0.0039	ND	108	50-150	N2
PFPeS	ug/L	ND	0.0036	.013J	120	50-150	N2
13C2-PFDoA (S)	%				60	25-150	
13C2-PFTA (S)	%				54	25-150	
13C24:2FTS (S)	%				74	25-150	
13C26:2FTS (S)	%				72	25-150	
13C28:2FTS (S)	%				44	25-150	
13C2PFHxDA (S)	%				53	25-150	
13C3-PFBS (S)	%				67	25-150	
13C3-PFHxS (S)	%				66	25-150	
13C3HFPO-DA (S)	%				69	25-150	
13C4-PFBA (S)	%				56	25-150	
13C4-PFHpA (S)	%				60	25-150	
13C5-PFHxA (S)	%				64	25-150	
13C5-PFPeA (S)	%				62	25-150	
13C6-PFDA (S)	%				69	25-150	
13C7-PFUdA (S)	%				59	25-150	
13C8-PFOA (S)	%				64	25-150	
13C8-PFOS (S)	%				65	25-150	
13C8-PFOSA (S)	%				55	25-150	
13C9-PFNA (S)	%				65	25-150	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: E23-0254 Menomonie

Pace Project No.: 10652482

MATRIX SPIKE SAMPLE: 4653627

Parameter	Units	10652482006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
d3-MeFOSAA (S)	%.				53	25-150	
d3-NMeFOSA (S)	%.				9	10-150	S4
d5-EtFOSAA (S)	%.				63	25-150	
d5-NEtFOSA (S)	%.				7	10-150	S4
d7-NMeFOSE (S)	%.				47	10-150	
d9-NEtFOSE (S)	%.				49	10-150	

SAMPLE DUPLICATE: 4653628

Parameter	Units	10652482007 Result	Dup Result	RPD	Max RPD	Qualifiers
11Cl-PF3OUdS	ug/L	ND	ND		30	N2
4:2 FTS	ug/L	ND	ND		30	N2
6:2 FTS	ug/L	ND	ND		30	N2
8:2 FTS	ug/L	ND	ND		30	N2
9Cl-PF3ONS	ug/L	ND	ND		30	N2
ADONA	ug/L	ND	ND		30	N2
HFPO-DA	ug/L	ND	ND		30	N2
NEtFOSA	ug/L	ND	ND		30	N2
NEtFOSAA	ug/L	ND	ND		30	N2
NEtFOSE	ug/L	ND	ND		30	N2
NMeFOSA	ug/L	ND	ND		30	N2
NMeFOSAA	ug/L	ND	ND		30	N2
NMeFOSE	ug/L	ND	ND		30	N2
Perfluorobutanesulfonic acid	ug/L	0.0082	0.0079	4	30	N2
Perfluorodecanoic acid	ug/L	ND	ND		30	N2
Perfluorododecanoic acid	ug/L	ND	ND		30	N2
Perfluoroheptanoic acid	ug/L	0.0036	0.0036	1	30	N2
Perfluorohexanesulfonic acid	ug/L	0.26	0.24	5	30	N2
Perfluorohexanoic acid	ug/L	0.0057	0.0056	1	30	N2
Perfluorononanoic acid	ug/L	ND	ND		30	N2
Perfluorooctanesulfonic acid	ug/L	0.015	0.015	1	30	N2
Perfluorooctanoic acid	ug/L	0.056	0.054	3	30	N2
Perfluorotetradecanoic acid	ug/L	ND	ND		30	N2
Perfluorotridecanoic acid	ug/L	ND	ND		30	N2
Perfluoroundecanoic acid	ug/L	ND	ND		30	N2
PFBA	ug/L	0.016	0.016	0	30	N2
PFDoS	ug/L	ND	ND		30	N2
PFDS	ug/L	ND	ND		30	N2
PFHpS	ug/L	ND	.00081J		30	N2
PFNS	ug/L	ND	ND		30	N2
PFOSA	ug/L	ND	ND		30	N2
PFPeA	ug/L	0.0024	0.0024	1	30	N2
PFPeS	ug/L	0.0084	0.0082	2	30	N2
13C2-PFDoA (S)	%.	62	64			
13C2-PFTA (S)	%.	62	62			

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### QUALITY CONTROL DATA

Project: E23-0254 Menomonie

Pace Project No.: 10652482

SAMPLE DUPLICATE: 4653628

Parameter	Units	10652482007 Result	Dup Result	RPD	Max RPD	Qualifiers
13C24:2FTS (S)	%.	71	85			
13C26:2FTS (S)	%.	73	82			
13C28:2FTS (S)	%.	79	85			
13C2PFHxDA (S)	%.		60			
13C3-PFBS (S)	%.	67	76			
13C3-PFHxS (S)	%.	65	77			
13C3HFPO-DA (S)	%.	63	79			
13C4-PFBA (S)	%.	60	68			
13C4-PFHpA (S)	%.	67	76			
13C5-PFHxA (S)	%.	65	74			
13C5-PFPeA (S)	%.	67	78			
13C6-PFDA (S)	%.	63	69			
13C7-PFUdA (S)	%.	57	57			
13C8-PFOA (S)	%.	67	76			
13C8-PFOS (S)	%.	67	80			
13C8-PFOSA (S)	%.	55	60			
13C9-PFNA (S)	%.	72	79			
d3-MeFOSAA (S)	%.	52	57			
d3-NMeFOSA (S)	%.	20	13			
d5-EtFOSAA (S)	%.	53	50			
d5-NEtFOSA (S)	%.	17	11			
d7-NMeFOSE (S)	%.	49	46			
d9-NEtFOSE (S)	%.	47	46			

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## QUALIFIERS

Project: E23-0254 Menomonie

Pace Project No.: 10652482

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### 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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

DL - Adjusted Method Detection Limit.

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 at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

- |    |   |
|----|---|
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.   |
| N2 | The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request. |
| S0 | Surrogate recovery outside laboratory control limits.   |
| S3 | Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.  |
| S4 | Surrogate recovery not evaluated against control limits due to sample dilution.   |

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: E23-0254 Menomonie

Pace Project No.: 10652482

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10652482001	MEWI-GW-MW1-0-230508	ENV-SOP-MIN4-0178	880080	ENV-SOP-MIN4-0178	883059
10652482002	MEWI-GW-MW2-0-230509	ENV-SOP-MIN4-0178	880080	ENV-SOP-MIN4-0178	883059
10652482003	MEWI-GW-MW3-0-230508	ENV-SOP-MIN4-0178	880080	ENV-SOP-MIN4-0178	883059
10652482004	MEWI-GW-DB-0-230508	ENV-SOP-MIN4-0178	880080	ENV-SOP-MIN4-0178	883059
10652482005	MEWI-GW-MW4-0-230508	ENV-SOP-MIN4-0178	880080	ENV-SOP-MIN4-0178	883059
10652482006	MEWI-GW-MW5-0-230508	ENV-SOP-MIN4-0178	882967	ENV-SOP-MIN4-0178	886345
10652482007	MEWI-GW-MW6-0-230508	ENV-SOP-MIN4-0178	882967	ENV-SOP-MIN4-0178	886345
10652482008	MEWI-GW-MW7-0-230508	ENV-SOP-MIN4-0178	880080	ENV-SOP-MIN4-0178	883059
10652482009	MEWI-GW-FB1-FB-230508	ENV-SOP-MIN4-0178	880080	ENV-SOP-MIN4-0178	883059
10652482010	MEWI-GW-EB1-EB-230509	ENV-SOP-MIN4-0178	880080	ENV-SOP-MIN4-0178	883059

## REPORT OF LABORATORY ANALYSIS

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**3M Global EHS Laboratory**

**Sample Shipping Address**  
 Pace Analytical Services, LLC - Minneapolis  
 1700 Elm St SE  
 Minneapolis, MN 55414  
 612-607-6451  
 Attn: Carolyne Trout

**Chain of Custody / Request for Analytical**

**Project Description:** 3M Menomonie Soil & Groundwater Investigation - 2023  
**Project Requester:** 3M Project Lead  
 Amanda Albrecht  
 Chambers, Britta (MAPLEWOOD-3MUS-MN 3M CENTER)  
 Department: 530711 Site Source: 01J9C020  
 Project Created: 4/20/2023

Project: E23-0254 (cont.)

Number of Containers

Item	3M Sample Number	Sample Description	Date/Time Sampled	Matrix	Type of Sample	Sample Comment	Record each container type/ preservative collected
33	<del>E23-0254-033</del>	MEWI-S-MW6 - FT-O-		<del>soil</del>	<input type="checkbox"/> Grab <input type="checkbox"/> Comp		
34	<del>E23-0254-034</del>	MEWI-S-MW7 - FT-O-		<del>soil</del>	<input type="checkbox"/> Grab <input type="checkbox"/> Comp		
35	<del>E23-0254-035</del>	MEWI-S-MW7 - FT-O-		<del>soil</del>	<input type="checkbox"/> Grab <input type="checkbox"/> Comp		
36	E23-0254-036	MEWI-GW-MW1-0-	5/8/23 12:00	WG	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp	20	001
37	E23-0254-037	MEWI-GW-MW2-0-	5/9/23 07:30	WG	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp	2	002
38	E23-0254-038	MEWI-GW-MW3-0-	5/8/23 17:10	WG	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp	2	003
39	E23-0254-039	MEWI-GW-MW3-DB-0-230508	5/8/23 -	WG	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp	2	004
40	E23-0254-040	MEWI-GW-MW4-0-	5/8/23 16:10	WG	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp	2	005
41	E23-0254-041	MEWI-GW-MW5-0-	5/8/23 15:00	WG	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp	2	006
42	E23-0254-042	MEWI-GW-MW6-0-	5/8/23 14:25	WG	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp	2	007
43	E23-0254-043	MEWI-GW-MW7-0-	5/8/23 13:30	WG	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp	2	008
44	<del>E23-0254-044</del>	MEWI-W-TB1-TB-		WQ	<input type="checkbox"/> Grab <input type="checkbox"/> Comp		
45	E23-0254-045	MEWI-W-TB2-TB-		WQ	<input type="checkbox"/> Grab <input type="checkbox"/> Comp		
46	E23-0254-046	MEWI-W-TB3-TB-		WQ	<input type="checkbox"/> Grab <input type="checkbox"/> Comp		
47	<del>E23-0254-047</del>	MEWI-W-TB4-TB-		WQ	<input type="checkbox"/> Grab <input type="checkbox"/> Comp		
48	E23-0254-048	MEWI-W-TB5-TB-		WQ	<input type="checkbox"/> Grab <input type="checkbox"/> Comp		

Collected by (Print): Craig A Wieman Collector's signature: [Signature]

Item	Relinquished by:	Date	Time	Shipped Via	Received by:	Date	Time
					no paper	5-9-23	11:54

Comments: WI ID3 (PFAS)

NO#: **10652482**

10652482

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**3M Global EHS Laboratory**

**Sample Shipping Address**  
 Pace Analytical Services, LLC - Minneapolis  
 1700 Elm St SE  
 Minneapolis, MN 55414  
 612-607-6451  
 Attn: Carolynne Trout

**Chain of Custody / Request for Analytical**

**Project Description:** 3M Menomonie Soil & Groundwater Investigation - 2023  
**Project Requester:** 3M Project Lead  
 Amanda Albrecht  
 Email Address: aalbrecht2@mmm.com  
 Phone Number: 651-736-9414  
 Chambers, Britta (MAPLEWOOD-3MUS-MN 3M CENTER)  
 Department: 530711 Site Source: 01J9C020  
 Project Created: 4/20/2023

Project: E23-0254 (cont.)

Number of Containers

Item	3M Sample Number	Sample Description	Date / Time Sampled	Matrix	Type of Sample	Sample Comment	Number of Containers
49	E23-0254-049	MEWI-W-FB1-FB-	05/08/23 16 <sup>00</sup>	WQ	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1
50	E23-0254-050	MEWI-W-FB2-FB-		WQ	<input type="checkbox"/> Grab <input type="checkbox"/> Comp		
51	E23-0254-051	MEWI-W-FB3-FB-		WQ	<input type="checkbox"/> Grab <input type="checkbox"/> Comp		
52	E23-0254-052	MEWI-W-FB4-FB-		WQ	<input type="checkbox"/> Grab <input type="checkbox"/> Comp		
53	E23-0254-053	MEWI-W-FB5-FB-		WQ	<input type="checkbox"/> Grab <input type="checkbox"/> Comp		
54	E23-0254-054	MEWI-W-EB1-EB- 230509	05/09/23 09 <sup>00</sup>	WQ	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		2
55	E23-0254-055	MEWI-W-EB2-EB-		WQ	<input type="checkbox"/> Grab <input type="checkbox"/> Comp		
56	E23-0254-056	MEWI-W-EB3-EB-		WQ	<input type="checkbox"/> Grab <input type="checkbox"/> Comp		
57	E23-0254-057	MEWI-W-EB4-EB-		WQ	<input type="checkbox"/> Grab <input type="checkbox"/> Comp		
58	E23-0254-058	MEWI-W-EB5-EB-		WQ	<input type="checkbox"/> Grab <input type="checkbox"/> Comp		
59	E23-0254-059	MEWI-SIDW-IDW1-		SOIL	<input type="checkbox"/> Grab <input type="checkbox"/> Comp		
60	E23-0254-060	MEWI-SIDW-IDW2-		SOIL	<input type="checkbox"/> Grab <input type="checkbox"/> Comp		
61	E23-0254-061	MEWI-SIDW-IDW3-		SOIL	<input type="checkbox"/> Grab <input type="checkbox"/> Comp		
62	E23-0254-062	MEWI-SIDW-IDW4-		SOIL	<input type="checkbox"/> Grab <input type="checkbox"/> Comp		
63	E23-0254-063	MEWI-SIDW-IDW5-		SOIL	<input type="checkbox"/> Grab <input type="checkbox"/> Comp		
64	E23-0254-064	MEWI-SIDW-IDW6-		SOIL	<input type="checkbox"/> Grab <input type="checkbox"/> Comp		

Collected by (print) <u>Craig A Wieman</u>		Collector's signature:		Comments			
Item	Relinquished by:	Date	Time	Shipped Via	Received by:	Date	Time
					<u>R. Paer</u>	5-9-23	1159

Contact EHS Lab project lead for requested tests and target analytes, if not specified.

Sample Condition Upon Receipt  
 Client Name: **3M GLOBAL**

Project #: **WO#: 10652482**  
 PM: CT1 Due Date: 07/03/23  
 CLIENT: 3M ENV

Courier:  FedEx  UPS  USPS  Client  
 Pace  SpeedDee  Commercial

See Exceptions  
 ENV-FRM-MIN4-0142

Tracking Number: \_\_\_\_\_  
 Custody Seal on Cooler/Box Present?  Yes  No  
 Seals Intact?  Yes  No  
 Biological Tissue Frozen?  Yes  No  N/A  
 Packing Material:  Bubble Wrap  Bubble Bags  None  Other  
 Temp Blank?  Yes  No  
 Thermometer:  T1 (0461)  T2 (0436)  T3 (0459)  T4 (0402)  T5 (0178)  
 T6 (0235)  T7 (0042)  T8 (0775)  T9(0727)  01339252/1710  
 Type of Ice:  Wet  Blue  Dry  None  
 Melted

Did Samples Originate in West Virginia?  Yes  No  
 Were All Container Temps Taken?  Yes  No  N/A  
 Temp should be above freezing to 6 °C  
 Cooler temp Read w/Temp Blank: 3.0 °C  
 Average Corrected Temp (no temp blank only): \_\_\_\_\_ °C  
 Correction Factor: TRUE Cooler Temp Corrected w/temp blank: 3.0 °C  
 See Exceptions ENV-FRM-MIN4-0142  1 Container

USDA Regulated Soil:  N/A (water/sample/other: \_\_\_\_\_)  
 Date/Initials of Person Examining Contents: 5.9.23 CM1  
 Did samples originate in a quarantine zone within the United States: AL, AR, AZ CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check maps)?  Yes  No  
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

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

Location (Check one): <input type="checkbox"/> Duluth <input type="checkbox"/> Minneapolis <input type="checkbox"/> Virginia	COMMENTS
Chain of Custody Present and Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 1.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 3.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 4. If fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 <input type="checkbox"/> No
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E.coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrom <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 6.
Sufficient Sample Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 7.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 8.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 9.
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A 10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is sufficient information available to reconcile the samples to the COC? Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other	11. If no, write ID/Date/Time of container below: <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 12. Sample # <input type="checkbox"/> NaOH <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> Zinc Acetate
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH >10 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxins/PFAS (*If adding preservative to a container, it must be added to associated field and equipment blanks--verify with PM first.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Positive for Residual Chlorine? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142 pH Paper Lot # Residual Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Headspace in Methyl Mercury Container?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 13.
Extra labels present on soil VOA or WIDRO containers?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 14. <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
3 Trip Blanks Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 15.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION  
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/Resolution: \_\_\_\_\_  
 Project Manager Review: Carolynne Trout Date: 5/11/23

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

Labeled By: CM7 Line: 2



DC#\_ Title: ENV-FRM-MIN4-0142 v02\_Sample Condition Upon Receipt (SCUR) Exception Form

Effective Date: 09/22/2022

Workorder #: \_\_\_\_\_

No Temp Blank		
Read Temp	Corrected Temp	Average temp
5.8	5.9	4.5
3.0	3.1	
5.7	5.8	
3.1	3.2	

PM Notified of Out of Temp Cooler? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, indicate who was contacted, date and time. If no, indicate reason why. _____
Multiple Cooler Project? <input type="checkbox"/> Yes <input type="checkbox"/> No

If anything is OVER 6.0° C, you **MUST** document containers in this section **HERE**



Tracking Number	Temperature

Out of Temp Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples										
Sample ID	Type Of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance After Addition?		Initials
								<input type="checkbox"/> Yes	<input type="checkbox"/> No	
								<input type="checkbox"/> Yes	<input type="checkbox"/> No	
								<input type="checkbox"/> Yes	<input type="checkbox"/> No	
								<input type="checkbox"/> Yes	<input type="checkbox"/> No	
								<input type="checkbox"/> Yes	<input type="checkbox"/> No	
								<input type="checkbox"/> Yes	<input type="checkbox"/> No	
								<input type="checkbox"/> Yes	<input type="checkbox"/> No	
								<input type="checkbox"/> Yes	<input type="checkbox"/> No	

Comments:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**3M Global EHS Laboratory**

**Sample Shipping Address**

Pace Analytical Services, LLC - Minneapolis  
 1700 Elm St SE  
 Minneapolis, MN 55414  
 612-607-6451  
 Attn: Carolynne Trout

**Chain of Custody / Request for Analytical**

**Project Description:** 3M Menomonie Soil & Groundwater Investigation - 2023

**Project Requester**

Chambers, Britta (MAPLEWOOD-3MUS-MN 3M CENTER)  
 Department: 530711 Site Source: 01J9C020  
 Project Created: 4/20/2023

**3M Project Lead**

Amanda Albrecht  
 Email Address: aalbrecht2@mmm.com  
 Phone Number: 651-736-9414

Project: E23-0254 (cont.)

Item	3M Sample Number	Sample Description	Date/Time Sampled	Matrix	Type of Sample	Sample Comment	Number of Containers		
							Record each container type/ preservative collected		
33	E23-0254-033	MEWI-S-MW6- - FT-0-		SOIL	<input type="checkbox"/> Grab <input type="checkbox"/> Comp				
34	E23-0254-034	MEWI-S-MW7- - FT-0-		SOIL	<input type="checkbox"/> Grab <input type="checkbox"/> Comp				
35	<del>E23-0254-035</del>	<del>MEWI-S-MW7- - FT-0-</del>		<del>SOIL</del>	<del><input type="checkbox"/> Grab <input type="checkbox"/> Comp</del>				
36	E23-0254-036	MEWI-GW-MW1-0- 230508	5/8/23 12 <sup>00</sup>	WG	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		2		001
37	E23-0254-037	MEWI-GW-MW2-0- 230509	5/9/23 07 <sup>30</sup>	WG	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		2		002
38	E23-0254-038	MEWI-GW-MW3-0- 230508	5/8/23 17 <sup>10</sup>	WG	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		2		003
39	E23-0254-039	MEWI-GW-MW3-DB- 0- 230508	5/8/23 —	WG	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		2		004
40	E23-0254-040	MEWI-GW-MW4-0- 230508	5/8/23 16 <sup>10</sup>	WG	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		2		005
41	E23-0254-041	MEWI-GW-MW5-0- 230508	5/8/23 15 <sup>10</sup>	WG	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		2		006
42	E23-0254-042	MEWI-GW-MW6-0- 230508	5/8/23 14 <sup>25</sup>	WG	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		2		007
43	E23-0254-043	MEWI-GW-MW7-0- 230508	5/8/23 13 <sup>30</sup>	WG	<input type="checkbox"/> Grab <input type="checkbox"/> Comp		2		008
44	E23-0254-044	MEWI-W-TB1-TB-		WQ	<input type="checkbox"/> Grab <input type="checkbox"/> Comp				
45	E23-0254-045	MEWI-W-TB2-TB-		WQ	<input type="checkbox"/> Grab <input type="checkbox"/> Comp				
46	E23-0254-046	MEWI-W-TB3-TB-		WQ	<input type="checkbox"/> Grab <input type="checkbox"/> Comp				
47	E23-0254-047	MEWI-W-TB4-TB-		WQ	<input type="checkbox"/> Grab <input type="checkbox"/> Comp				
48	E23-0254-048	MEWI-W-TB5-TB-		WQ	<input type="checkbox"/> Grab <input type="checkbox"/> Comp				

Collected by (print): Craig A Wieman Collector's signature: [Signature]

Item	Relinquished by:	Date		Shipped Via	Received by:	
		Date	Time		Date	Time

Comments:  
 WI ID3 (PFAS)  
 WO#: 10652482  
 Contain



**3M Global EHS Laboratory**

**Sample Shipping Address**

Pace Analytical Services, LLC - Minneapolis  
 1700 Elm St SE  
 Minneapolis, MN 55414  
 612-607-6451  
 Attn: Carolynne Trout

**Chain of Custody / Request for Analytical**

**Project: E23-0254 (cont.)**

**Project Description:** 3M Menomonie Soil & Groundwater Investigation - 2023

**Project Requester**

Chambers, Britta (MAPLEWOOD-3MUS-MN 3M CENTER)  
 Department: 530711 Site Source: 01J9C020  
 Project Created: 4/20/2023

**3M Project Lead**

Amanda Albrecht  
 Email Address: aalbrecht2@mmm.com  
 Phone Number: 651-736-9414

Item	3M Sample Number	Sample Description	Date/Time Sampled	Matrix	Type of Sample	Sample Comment	Number of Containers				
							Record each container type/ preservative collected				
49	E23-0254-049	MEWI-W-FB1-FB-230508	05/02/23 16 <sup>00</sup>	WQ	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1				009
50	E23-0254-050	MEWI-W-FB2-FB-		WQ	<input type="checkbox"/> Grab <input type="checkbox"/> Comp						
51	E23-0254-051	MEWI-W-FB3-FB-		WQ	<input type="checkbox"/> Grab <input type="checkbox"/> Comp						
52	E23-0254-052	MEWI-W-FB4-FB-		WQ	<input type="checkbox"/> Grab <input type="checkbox"/> Comp						
53	E23-0254-053	MEWI-W-FB5-FB-		WQ	<input type="checkbox"/> Grab <input type="checkbox"/> Comp						
54	E23-0254-054	MEWI-W-EB1-EB-230509	05/03/23 09 <sup>00</sup>	WQ	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		2				010
55	E23-0254-055	MEWI-W-EB2-EB-		WQ	<input type="checkbox"/> Grab <input type="checkbox"/> Comp						
56	E23-0254-056	MEWI-W-EB3-EB-		WQ	<input type="checkbox"/> Grab <input type="checkbox"/> Comp						
57	E23-0254-057	MEWI-W-EB4-EB-		WQ	<input type="checkbox"/> Grab <input type="checkbox"/> Comp						
58	E23-0254-058	MEWI-W-EB5-EB-		WQ	<input type="checkbox"/> Grab <input type="checkbox"/> Comp						
59	E23-0254-059	MEWI-SIDW-IDW1-		SOIL	<input type="checkbox"/> Grab <input type="checkbox"/> Comp						
60	<del>E23-0254-060</del>	MEWI-SIDW-IDW2-		SOIL	<input type="checkbox"/> Grab <input type="checkbox"/> Comp						
61	E23-0254-061	MEWI-SIDW-IDW3-		SOIL	<input type="checkbox"/> Grab <input type="checkbox"/> Comp						
62	E23-0254-062	MEWI-SIDW-IDW4-		SOIL	<input type="checkbox"/> Grab <input type="checkbox"/> Comp						
63	E23-0254-063	MEWI-SIDW-IDW5-		SOIL	<input type="checkbox"/> Grab <input type="checkbox"/> Comp						
64	E23-0254-064	MEWI-SIDW-IDW6-		SOIL	<input type="checkbox"/> Grab <input type="checkbox"/> Comp						

Collected by (print): Craig A Wieman Collector's signature: 

Item	Relinquished by:	Date	Time	Shipped Via	Received by:	Date	Time
					<u>W Paer</u>	<u>5-9-23</u>	<u>1154</u>

**Comments**

Contact EHS Lab project lead for requested tests and target analytes if not specified.