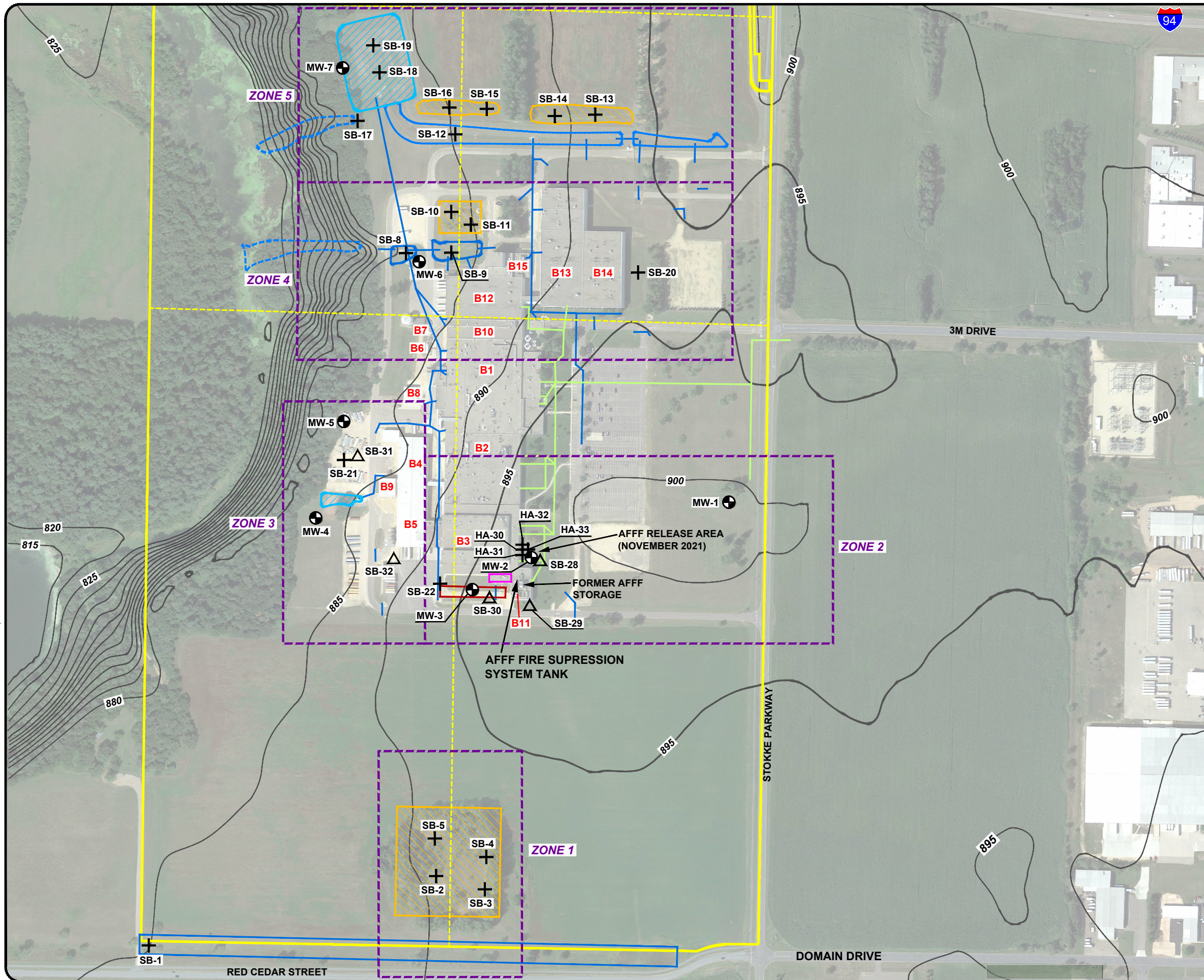


6/8/2023 2:09:43 PM - P:\ACAD\7383-011-MENOM\7383011007A.DWG - PAUGH, CHRISTINA



LEGEND

- Site Boundary
- Parcel Boundaries
- Building Number
- Berm / Fill Area
- Fire Training Area
- Red Label Room
- Stormwater Infiltration Pond
- Stormwater Drainage Feature
- Former Stormwater Drainage Ditch
- Sanitary Sewer
- Stormwater Conveyance
- 5-Foot Contour (USGS, 2018)
- Proposed Monitoring Well
- Location of Proposed Hand Auger Boring (Depth Approximately 2 Feet)
- Location of Proposed Soil Boring (Depth Approximately 10 Feet to 20 Feet)
- Detailed Figure Areas

NOTE:
SB-23 will be located approximately 1200 feet northwest of SB-19 and is intended as a background sample.

SOURCE:
AERIAL PHOTOGRAPH FROM GOOGLE EARTH PRO, DATED AUGUST 2021.

0 200 400 800
Feet

Bar Measures 1 inch

TETRA TECH
www.tetrattech.com
2001 KILLEBREW DRIVE, SUITE 141
BLOOMINGTON, MN 55425
PHONE: 612.643.2200

3M MEMOMONIE SOIL AND GROUNDWATER INVESTIGATION WORK PLAN
1425 STOKKE PARKWAY
MENOMONIE, WISCONSIN 54751

Project No.: 117-7383011
Designed By:
Drawn By: CP
Checked By: CL

SITE DETAILS

FIGURE #

CERTIFICATION

Hydrogeologist:

I hereby certify that I am a hydrogeologist as that term is defined in s. NR712.03(1), Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR700 to 726, Wis. Adm. Code.

A handwritten signature in black ink, appearing to read "Chris Bonniwell", with a long horizontal flourish extending to the right.

Chris Bonniwell, Ph.D., P.G. 1372-13
Midwest Principal Account Manager

Table 2 - Shallow Soil VOCs, SVOCs, PCBs, and RCRA Metals Analytical Results
 3M Menomonie Soil and Groundwater Investigation
 Menomonie, Wisconsin

Parameter	Units	Boring ID	SB-01	SB-02	SB-03	SB-04	SB-04 Dup	SB-05	SB-08	SB-08 Dup	SB-09	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-16	SB-17	SB-17 Dup	SB-18	SB-19	SB-23	
		Industrial DC RCL Not-To-Exceed D-C RCL	11/29/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/29/2022
Volatile Organic Compounds																								
Benzene	ug/kg	7,070	<13.7	<13.8	<14.2	<15.0	-	<12.6	<13.7	<13.9	<14.6	<13.5	<13.5	<12.7	<14.6	<13.6	<14.1	<13.7	<13.0	<13.3	<12.9	<12.8	-	-
Bromobenzene	ug/kg	679,000	<22.5	<22.6	<23.3	<24.6	-	<20.6	<22.4	<22.7	<24.0	<22.2	<22.2	<20.8	<24.0	<22.3	<23.1	<22.4	<21.3	<21.8	<21.1	<21.0	-	-
Bromochloromethane	ug/kg	906,000	<15.8	<15.9	<16.4	<17.3	-	<14.5	<15.7	<16.0	<16.8	<15.6	<15.6	<14.6	<16.8	<15.7	<16.2	<15.8	<15.0	<15.3	<14.8	<14.7	-	-
Bromodichloromethane	ug/kg	1,830	<13.7	<13.8	<14.2	<15.0	-	<12.6	<13.7	<13.9	<14.6	<13.5	<13.5	<12.7	<14.6	<13.6	<14.1	<13.7	<13.0	<13.3	<12.9	<12.8	-	-
Bromoform	ug/kg	113,000	<253	<256	<263	<277	-	<232	<253	<257	<270	<250	<250	<235	<270	<251	<261	<253	<241	<246	<238	<237	-	-
Bromomethane	ug/kg	43,000	<80.8	<81.4	<83.8	<88.3	-	<74.0	<80.5	<81.8	<86.1	<79.7	<79.8	<74.8	<86.1	<80.1	<83.1	<80.7	<76.7	<78.3	<75.9	<75.4	-	-
Carbon tetrachloride	ug/kg	4,030	<12.7	<12.8	<13.1	<13.9	-	<11.6	<12.6	<12.8	<13.5	<12.5	<12.5	<11.7	<13.5	<12.6	<13.0	<12.7	<12.0	<12.3	<11.9	<11.8	-	-
Chlorobenzene	ug/kg	761,000	<6.9	<7.0	<7.2	<7.5	-	<6.3	<6.9	<7.0	<7.4	<6.8	<6.8	<6.4	<7.4	<6.8	<7.1	<6.9	<6.6	<6.7	<6.5	<6.4	-	-
Chloroethane	ug/kg	--	<24.3	<24.5	<25.2	<26.6	-	<22.3	<24.2	<24.6	<25.9	<24.0	<24.0	<22.5	<25.9	<24.1	<25.0	<24.3	<23.1	<23.6	<22.8	<22.7	-	-
Chloroform	ug/kg	1,980	<41.2	<41.6	<42.8	<45.1	-	<37.8	<41.1	<41.8	<44.0	<40.7	<40.7	<38.2	<44.0	<40.9	<42.4	<41.2	<39.2	<40.0	<38.8	<38.5	-	-
Chloromethane	ug/kg	669,000	<21.9	<22.1	<22.7	<23.9	-	<20.0	<21.8	<22.2	<23.3	<21.6	<21.6	<20.3	<23.3	<21.7	<22.5	<21.9	<20.8	<21.2	<20.6	<20.4	-	-
2-Chlorotoluene	ug/kg	907,000	<18.7	<18.8	<19.4	<20.4	-	<17.1	<18.6	<18.9	<19.9	<18.4	<18.4	<17.3	<19.9	<18.5	<19.2	<18.6	<17.7	<18.1	<17.5	<17.4	-	-
4-Chlorotoluene	ug/kg	253,000	<21.9	<22.1	<22.7	<23.9	-	<20.0	<21.8	<22.2	<23.3	<21.6	<21.6	<20.3	<23.3	<21.7	<22.5	<21.9	<20.8	<21.2	<20.6	<20.4	-	-
cis-1,2-Dichloroethene	ug/kg	--	<12.3	<12.4	<12.8	<13.5	-	<11.3	<12.3	<12.5	<13.1	<12.2	<12.2	<11.4	<13.1	<12.2	<12.7	<12.3	<11.7	<11.9	<11.6	<11.5	-	-
cis-1,3-Dichloropropene	ug/kg	1,210,000	<38.0	<38.3	<39.4	<41.6	-	<34.8	<37.9	<38.5	<40.5	<37.5	<37.6	<35.2	<40.5	<37.7	<39.1	<38.0	<36.1	<36.8	<35.7	<35.5	-	-
1,2-Dibromo-3-Chloropropane	ug/kg	92	<44.7	<45.1	<46.4	<48.9	-	<40.9	<44.6	<45.3	<47.7	<44.1	<44.2	<41.4	<47.7	<44.3	<46.0	<44.7	<42.5	<43.3	<42.0	<41.8	-	-
1,2-Dibromoethane (EDB)	ug/kg	2,870	<15.8	<15.9	<16.4	<17.3	-	<14.5	<15.7	<16.0	<16.8	<15.6	<15.6	<14.6	<16.8	<15.7	<16.2	<15.8	<15.0	<15.3	<14.8	<14.7	-	-
Dibromomethane	ug/kg	143,000	<17.1	<17.2	<17.7	<18.6	-	<15.6	<17.0	<17.3	<18.2	<16.8	<16.8	<15.8	<18.2	<16.9	<17.5	<17.0	<16.2	<16.5	<16.0	<15.9	-	-
1,2-Dichlorobenzene	ug/kg	376,000	<17.9	<18.0	<18.5	<19.5	-	<16.4	<17.8	<18.1	<19.0	<17.6	<17.6	<16.5	<19.0	<17.7	<18.4	<17.8	<17.0	<17.3	<16.8	<16.7	-	-
1,3-Dichlorobenzene	ug/kg	297,000	<15.8	<15.9	<16.4	<17.3	-	<14.5	<15.7	<16.0	<16.8	<15.6	<15.6	<14.6	<16.8	<15.7	<16.2	<15.8	<15.0	<15.3	<14.8	<14.7	-	-
1,4-Dichlorobenzene	ug/kg	16,400	<15.8	<15.9	<16.4	<17.3	-	<14.5	<15.7	<16.0	<16.8	<15.6	<15.6	<14.6	<16.8	<15.7	<16.2	<15.8	<15.0	<15.3	<14.8	<14.7	-	-
Dibromochloromethane	ug/kg	38,900	<197	<198	<204	<215	-	<180	<196	<199	<210	<194	<195	<182	<210	<195	<203	<197	<187	<191	<185	<184	-	-
Dichlorodifluoromethane	ug/kg	530,000	<24.8	<25.0	<25.7	<27.1	-	<22.7	<24.7	<25.1	<26.4	<24.4	<24.5	<22.9	<26.4	<24.6	<25.5	<24.7	<23.5	<24.0	<23.3	<23.1	-	-
1,1-Dichloroethane	ug/kg	22,200	<14.7	<14.9	<15.3	<16.1	-	<13.5	<14.7	<14.9	<15.7	<14.5	<14.6	<13.7	<15.7	<14.6	<15.2	<14.7	<14.0	<14.3	<13.9	<13.8	-	-
1,2-Dichloroethane	ug/kg	2,870	<13.3	<13.4	<13.7	<14.5	-	<12.1	<13.2	<13.4	<14.1	<13.1	<13.1	<12.3	<14.1	<13.1	<13.6	<13.2	<12.6	<12.8	<12.5	<12.4	-	-
1,1-Dichloroethene	ug/kg	--	<19.1	<19.3	<19.8	<20.9	-	<17.5	<19.1	<19.4	<20.4	<18.9	<18.9	<17.7	<20.4	<19.0	<19.7	<19.1	<18.2	<18.5	<18.0	<17.9	-	-
1,2-Dichloropropane	ug/kg	15,000	<13.7	<13.8	<14.2	<15.0	-	<12.6	<13.7	<13.9	<14.6	<13.5	<13.5	<12.7	<14.6	<13.6	<14.1	<13.7	<13.0	<13.3	<12.9	<12.8	-	-
1,3-Dichloropropane	ug/kg	1,490,000	<12.6	<12.7	<13.0	<13.7	-	<11.5	<12.5	<12.7	<13.4	<12.4	<12.4	<11.6	<13.4	<12.5	<12.9	<12.5	<11.9	<12.2	<11.8	<11.7	-	-
2,2-Dichloropropane	ug/kg	191,000	<15.6	<15.7	<16.1	<17.0	-	<14.2	<15.5	<15.7	<16.6	<15.3	<15.4	<14.4	<16.6	<15.4	<16.0	<15.5	<14.8	<15.1	<14.6	<14.5	-	-
1,1-Dichloropropene	ug/kg	--	<18.7	<18.8	<19.4	<20.4	-	<17.1	<18.6	<18.9	<19.9	<18.4	<18.4	<17.3	<19.9	<18.5	<19.2	<18.6	<17.7	<18.1	<17.5	<17.4	-	-
Diisopropyl ether	ug/kg	2,260,000	<14.3	<14.4	<14.8	<15.6	-	<13.1	<14.2	<14.5	<15.2	<14.1	<14.1	<13.2	<15.2	<14.2	<14.7	<14.3	<13.6	<13.8	<13.4	<13.3	-	-
Ethylbenzene	ug/kg	35,400	<13.7	<13.8	<14.2	<15.0	-	<12.6	<13.7	<13.9	<14.6	<13.5	<13.5	<12.7	<14.6	<13.6	<14.1	<13.7	<13.0	<13.3	<12.9	<12.8	-	-
Hexachloro-1,3-butadiene	ug/kg	7,190	<115	<115	<119	<125	-	<105	<114	<116	<122	<113	<113	<106	<122	<114	<118	<114	<109	<111	<108	<107	-	-
Isopropylbenzene	ug/kg	--	<15.6	<15.7	<16.1	<17.0	-	<14.2	<15.5	<15.7	<16.6	<15.3	<15.4	<14.4	<16.6	<15.4	<16.0	<15.5	<14.8	<15.1	<14.6	<14.5	-	-
Methyl tert-butyl ether	ug/kg	282,000	<16.9	<17.1	<17.6	<18.5	-	<15.5	<16.9	<17.1	<18.1	<16.7	<16.7	<15.7	<18.1	<16.8	<17.4	<16.9	<16.1	<16.4	<15.9	<15.8	-	-
Methylene Chloride	ug/kg	1,150,000	<16.0	<16.1	<16.6	<17.5	-	<14.7	<16.0	<16.2	<17.1	<15.8	<15.8	<14.8	<17.1	<15.9	<16.5	<16.0	<15.2	<15.5	<15.0	<15.0	-	-
Naphthalene	ug/kg	24,100	<18.0	<1.8	<1.8	<1.8	-	<1.7	<1.8	<1.8	<1.8	<1.7	<1.7	<1.7	<1.7	<1.8	<1.8	<1.8	<1.7	<1.7	<1.6	<1.6	-	-
n-Butylbenzene	ug/kg	108,000	<26.4	<26.6	<27.4	<28.8	-	<24.2	<26.3	<26.7	<28.1	<26.0	<26.1	<24.4	<28.1	<26.2	<27.1	<26.4	<25.1	<25.6	<24.8	<24.6	-	-
n-Propylbenzene	ug/kg	264,000	<13.8	<13.9	<14.3	<15.1	-	<12.7	<13.8	<14.0	<14.7	<13.6	<13.7	<12.8	<14.7	<13.7	<14.2	<13.8	<13.1	<13.4	<13.0	<12.9	-	-
p-Isopropyltoluene	ug/kg	162,000	<17.5	<17.7	<18.2	<19.1	-	<16.0	<17.5	<17.7	<18.7	<17.3	<17.3	<16.2	<18.7	<17.4	<18.0	<17.5	<16.6	<17.0	<15.9	<16.4	-	-
sec-Butylbenzene	ug/kg	145,000	<14.1	<14.2	<14.6	<15.4	-	<12.9	<14.0	<14.2	<15.0	<13.9	<13.9	<13.0	<15.0	<13.9	<14.5	<14.0	<13.4	<13.6	<15.9	<13.1	-	

Table 2 - Shallow Soil VOCs, SVOCs, PCBs, and RCRA Metals Analytical Results
3M Menomonie Soil and Groundwater Investigation
Menomonie, Wisconsin

Parameter	Units	Boring ID	SB-01	SB-02	SB-03	SB-04	SB-04 Dup	SB-05	SB-08	SB-08 Dup	SB-09	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-16	SB-17	SB-17 Dup	SB-18	SB-19	SB-23		
		Industrial DC RCL Not-To-Exceed D-C RCL	11/29/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/29/2022	
1,2,4-Trimethylbenzene	ug/kg	219,000	<17.2	<17.3	<17.8	<18.8	-	<15.7	<17.1	<17.4	<18.3	<16.9	<17.0	<15.9	<18.3	<17.0	<17.7	<17.1	<16.3	<16.6	<16.1	<16.0	-		
1,3,5-Trimethylbenzene	ug/kg	182,000	<18.6	<18.7	<19.2	<20.3	-	<17.0	<18.5	<18.8	<19.8	<18.3	<18.3	<17.2	<19.8	<18.4	<19.1	<18.5	<17.6	<18.0	<17.4	<17.3	-		
Vinyl chloride	ug/kg	2,080	<11.6	<11.7	<12.1	<12.7	-	<10.7	<11.6	<11.8	<12.4	<11.5	<11.5	<10.8	<12.4	<11.5	<12.0	<11.6	<11.1	<11.3	<13.9	<10.9	-		
m&p-Xylene	ug/kg	388,000	<24.3	<24.5	<25.2	<26.6	-	<22.3	<24.2	<24.6	<25.9	<24.0	<24.0	<22.5	<25.9	<24.1	<25.0	<24.3	<23.1	<23.6	<22.8	<22.7	-		
o-Xylene	ug/kg	434,000	<17.3	<17.4	<17.9	<18.9	-	<15.8	<17.2	<17.5	<18.4	<17.0	<17.1	<16.0	<18.4	<17.1	<17.8	<17.3	<16.4	<16.7	<16.2	<16.1	-		
Semivolatile Organic Compounds																									
Acenaphthene	mg/kg	45,200	<2.3	<2.3	<2.4	<2.4	-	<2.2	<2.3	<2.3	<2.4	<2.3	<2.3	<2.2	<2.4	<2.3	<2.4	<2.3	<2.3	<2.3	<2.3	<2.3	<2.2	-	
Acenaphthylene	mg/kg	--	<2.3	<2.3	<2.3	<2.4	-	<2.2	<2.3	<2.3	<2.3	<2.3	<2.3	<2.2	<2.3	<2.3	<2.3	<2.3	<2.2	<2.2	<2.2	<2.2	<2.2	-	
Anthracene	mg/kg	100,000	<2.2	<2.2	<2.3	<2.3	-	<2.1	<2.2	<2.2	<2.3	<2.2	<2.2	<2.1	<2.3	<2.2	<2.3	<2.2	<2.2	<2.2	<2.2	<2.2	<2.1	-	
Benzo[a]anthracene	mg/kg	20.8	<2.3	<2.3	2.4 J	19.2	-	<2.2	<2.3	<2.3	<2.4	<2.3	<2.3	<2.2	3.7 J	<2.3	<2.4	<2.3	<2.3	<2.3	<2.2	<2.2	<2.2	-	
Benzo[a]pyrene	mg/kg	2.11	<2.0	<2.1	<2.1	17.2 J	-	<2.0	<2.0	<2.1	<2.1	<2.0	<2.0	<2.0	2.6 J	<2.0	<2.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	
Benzo[b]fluoranthene	mg/kg	21.1	<2.5	<2.5	<2.5	23.9	-	<2.4	<2.5	<2.5	<2.6	<2.5	<2.5	<2.4	4.8 J	<2.5	<2.5	<2.5	<2.4	<2.5	<2.4	<2.4	<2.4	-	
Benzo[g,h,i]perylene	mg/kg	--	<3.1	<3.2	<3.2	10.7 J	-	<3.0	<3.2	<3.2	<3.3	<3.1	<3.1	<3.0	<3.3	<3.1	<3.2	<3.2	<3.1	<3.1	<3.1	<3.0	<3.0	-	
Benzo[k]fluoranthene	mg/kg	211	<2.3	<2.3	<2.3	12.2 J	-	<2.2	<2.3	<2.3	<2.4	<2.3	<2.3	<2.2	<2.4	<2.3	<2.3	<2.3	<2.2	<2.3	<2.2	<2.2	<2.2	-	
Chrysene	mg/kg	2,110	<3.4	<3.4	<3.5	18.1 J	-	<3.2	<3.4	<3.4	<3.5	<3.4	<3.4	<3.3	3.7 J	<3.4	<3.4	<3.4	<3.3	<3.3	<3.3	<3.3	<3.3	-	
Dibenz[a,h]anthracene	mg/kg	0.176	<2.5	<2.5	<2.5	3.1 J	-	<2.4	<2.5	<2.5	<2.6	<2.5	<2.5	<2.4	<2.6	<2.5	<2.5	<2.5	<2.4	<2.4	<2.4	<2.4	<2.4	-	
Fluoranthene	mg/kg	30,100	<2.1	<2.1	<2.2	34.3	-	<2.0	<2.1	<2.1	<2.2	<2.1	<2.1	<2.0	5.0 J	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	-	
Fluorene	mg/kg	30,100	<2.2	<2.2	<2.2	<2.3	-	<2.1	<2.2	<2.2	<2.2	<2.1	<2.1	<2.1	<2.2	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	-	
Indeno[1,2,3-cd]pyrene	mg/kg	21.1	<3.7	<3.8	<3.8	9.3 J	-	<3.6	<3.7	<3.8	<3.9	<3.7	<3.7	<3.6	<3.9	<3.7	<3.8	<3.7	<3.6	<3.7	<3.6	<3.6	<3.6	-	
1-Methylnaphthalene	mg/kg	72.7	<2.6	<2.6	<2.7	<2.8	-	<2.5	<2.6	<2.6	<2.7	<2.6	<2.6	<2.5	<2.7	<2.6	<2.7	<2.6	<2.6	<2.6	<2.5	<2.5	<2.5	-	
2-Methylnaphthalene	mg/kg	3,010	<2.6	<2.6	<2.7	<2.8	-	<2.5	<2.6	<2.6	<2.7	<2.6	<2.6	<2.5	<2.7	<2.6	<2.7	<2.6	<2.6	<2.6	<2.5	<2.5	<2.5	-	
Naphthalene	mg/kg	24.1	<1.7	<18.1	<18.6	<19.6	-	<16.5	<17.9	<1.8	<19.2	<17.7	<17.8	<16.6	<1.8	<1.7	<1.8	<1.8	<1.7	<1.7	<1.7	<1.7	<1.7	-	
Phenanthrene	mg/kg	--	<2.1	<2.1	<2.1	3.7 J	-	<2.0	<2.1	<2.1	<2.1	<2.0	<2.0	<2.0	2.4 J	<2.1	<2.1	<2.1	<2.0	<2.0	<15.9	<2.0	<2.0	-	
Pyrene	mg/kg	22,600	<2.6	<2.7	<2.7	26.3	-	<2.5	<2.6	<2.7	<2.7	<2.6	<2.6	<2.5	4.8 J	<2.6	<2.7	<2.6	<2.6	<2.6	<15.9	<2.5	<2.5	-	
Polychlorinated Biphenyls (PCBs)																									
Aroclor 1016	ug/kg	28,000	-	-	-	-	<17.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<15.9	<15.8	-	
Aroclor 1221	ug/kg	883	-	-	-	-	<17.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<15.9	<15.8	-	
Aroclor 1232	ug/kg	792	-	-	-	-	<17.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<15.9	<15.8	-	
Aroclor 1242	ug/kg	972	-	-	-	-	<17.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<15.9	<15.8	-	
Aroclor 1248	ug/kg	975	-	-	-	-	<17.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<15.9	<15.8	-	
Aroclor 1254	ug/kg	988	-	-	-	-	<17.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<15.9	<15.8	-	
Aroclor 1260	ug/kg	1,000	-	-	-	-	<17.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<15.9	<15.8	-	
PCB, Total	ug/kg	967	-	-	-	-	<17.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<15.9	<15.8	-	
Moisture																									
Percent Moisture	%	--	7.1	7.5	8.9	11.5	11.3	2.7	6.9	7.7	10.2	6.4	6.5	3.3	10.3	6.6	8.5	7	4.5	5.5	4	3.7	4.2		
Percent Solid	%	--	92.9	92.5	91.1	88.5	88.7	97.3	93.1	92.3	89.8	93.6	93.5	96.7	89.7	93.4	91.5	93	95.5	94.5	96	94.3	95.8		
Metals																									
Arsenic	mg/kg	3	1.6 J	<1.5	2.7	3.2	2.8	<1.4	1.8 J	<1.6	<1.5	1.6 J	<1.5	<1.5	<1.6	<1.5	1.8 J	1.6 J	1.9 J	<1.5	<1.5	<1.5	2.8		
Barium	mg/kg	100,000	31.2	53.7	113	106	99.6	44.3	26	27	18.7	36.2	39.1	18.5	60.4	51	56.7	55.2	42.9	30.4	15.3	14.2	41.7		
Cadmium	mg/kg	985	<0.14	<0.14	<0.14	<0.14	<0.15	<0.13	<0.14	<0.14	<0.14	<0.13	<0.14	<0.13	<0.15	<0.14	<0.14	<0.14	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	
Chromium (Total)	mg/kg	--	9.2	9.5	13.3	12.4	11.6	9.4	8.6	11.7	7.8	10.2	10.2	11.4	8.9	8.1	10.1	9.1	11.4	10.7	9.2	11.1	16.8		
Lead	mg/kg	800	2.8	4.3	8.8	9.6	8.4	4.4	2.0 J	2.3	1.7 J	3.3	3.5	1.6 J	12	5.1	5.4	5.2	3.3	2.6	1.5 J	1.2 J	6.4		
Selenium	mg/kg	5,840	<1.4	<1.4	<1.4	<1.4	<1.5	<1.3	<1.4	<1.4	<1.4	<1.3	<1.4	<1.3	<1.4	<1.4	<1.3	<1.4	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	
Silver	mg/kg	5,840	<0.33	<0.32	<0.33	<0.33	<0.34	<0.30	<0.32	<0.33	<0.32	<0.31	<0.32	<0.31	<0.34	<0.32	<0.31	<0.33	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	
Mercury	mg/kg	3.13	<0.011	<0.010	0.027 J	0.056	0.039	<0.0095	<0.010	<0.010	<0.011	<0.0099	<0.011	<0.0098	<0.010	<0.011	<0.010	<0.0095	<0.0096	<0.0096	<0.0098	<0.010	<0.010	<0.010	

Notes:

- DC = Direct-Contact
- RCL = Soil Residual Contaminant Level (Wisconsin DNR)
- ug/kg = micrograms per kilogram (approximately = ppb)
- mg/kg = milligram per kilogram (approximately = ppm)
- The samples SB-06 and SB-07 were not collected based on field conditions (e.g. the berm had been removed based on facility renovation.)
- Bold** Value signifies a detection
- Bold and highlighted** Values signifies detection above Industrial D-C RCL.
- J = Estimated concentration at or above Limit of Detection (LOD) and below Limit of Quantification (LOQ).
- = Criteria Not Established
- Samples were collected from depths of 1.5 to 2 feet below land surface.

Table 3 - Shallow Soil PFAS Analytical Results
 3M Menomonie Soil and Groundwater Investigation
 Menomonie, Wisconsin

Parameter	Units	CAS Number	Non-Industrial DC RCL	Industrial DC RCL	Boring ID	SB-01	SB-02	SB-03	SB-04	SB-04 Dup	SB-05	SB-08	SB-08 Dup	SB-09	SB-12	SB-13	SB-14		
					Depth (ft bgs)	1.5-2	1.5-2	1.5-2	1.5-2	1.5-2	1.5-2	1.5-2	1.5-2	1.5-2	1.5-2	1.5-2	1.5-2	1.5-2	1.5-2
					Date	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022
Perfluoroalkyl Carboxylates/Carboxylic Acids (PFCA)																			
Perfluorobutanoic acid (PFBA)	ug/kg	375-22-4	--	--	ND	0.035 J	0.17	0.29	0.30	0.047 J	ND	0.031 J	0.03 J	ND	0.078 J	0.11			
Perfluoropentanoic acid (PFPeA)	ug/kg	2706-90-3	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Perfluorohexanoic acid (PFHxA)	ug/kg	307-24-4	--	--	ND	0.044 J	ND	ND	ND	0.027 J	ND	ND	ND	ND	0.042 J	ND			
Perfluoroheptanoic acid (PFHpA)	ug/kg	375-85-9	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Perfluorooctanoic acid (PFOA)	ug/kg	335-67-1	1,260	16,400	ND	0.095 J	ND	ND	ND	0.077 J	ND	ND	ND	ND	0.092 J	0.053 J			
Perfluorononanoic acid (PFNA)	ug/kg	375-95-1	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.045 J	ND			
Perfluorodecanoic acid (PFDA)	ug/kg	335-76-2	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Perfluoroundecanoic acid (PFUnDA/PFUdA)	ug/kg	2058-94-8	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Perfluorododecanoic acid (PFDoA)	ug/kg	307-55-1	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Perfluorotridecanoic acid (PFTTrDA)	ug/kg	72629-94-8	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Perfluorotetradecanoic acid (PFTTeDA)	ug/kg	376-06-7	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Perfluoroalkyl Sulfonates/Sulfonic Acids (PFSA)																			
Perfluorobutane sulfonic acid (PFBS)	ug/kg	375-73-5	1,260,000	164,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Perfluoropentane sulfonic acid (PFPeS)	ug/kg	2706-91-4	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Perfluorohexane sulfonic acid (PFHxS)	ug/kg	355-46-4	--	--	ND	0.11	ND	ND	ND	0.15	ND	ND	ND	ND	0.097 I	0.025 J			
Perfluoroheptane sulfonic acid (PFHpS)	ug/kg	375-92-8	--	--	ND	0.029 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Perfluorooctane sulfonic acid (PFOS)	ug/kg	1763-23-1	1,260	16,400	ND	2.0	0.029 J	ND	0.048 J	2.2	0.18	0.28	0.2	ND	0.56	0.23			
Perfluoronone sulfonic acid (PFNS)	ug/kg	68259-12-1	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Perfluorodecane sulfonic acid (PFDS)	ug/kg	335-77-3	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	79780-39-5	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Perfluoroalkane Sulfonamides/Sulfonamidoacetic Acids, Sulfonamidoethanols (FASA)																			
Perfluorooctane sulfonamide (PFOSA)	ug/kg	754-91-6	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
N-methyl perfluorooctane sulfonamide (NMeFOSA)	ug/kg	31506-32-8	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
N-ethyl perfluorooctane sulfonamide (NEtFOSA)	ug/kg	4151-50-2	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ug/kg	2355-31-9	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ug/kg	2991-50-6	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
N-methyl perfluorooctane sulfonamidoethanol (NMeFOSE)	ug/kg	24448-09-7	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
N-ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	ug/kg	1691-99-2	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Fluorotelomer Substances (FTS)																			
4:2 Fluorotelomer sulfonic acid (4:2FTS)	ug/kg	757124-72-4	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
6:2 Fluorotelomer sulfonic acid (6:2FTS)	ug/kg	27619-97-2	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
8:2 Fluorotelomer sulfonic acid (8:2FTS)	ug/kg	39108-34-4	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Replacement Chemicals																			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	13252-13-6	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	919005-14-4	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ug/kg	756426-58-1	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ug/kg	763051-92-9	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Combined PFOA and PFOS	ug/kg		--	--	ND	2.095	0.029	ND	0.048	2.3	0.18	0.28	0.2	ND	0.65	0.28			

- Notes:**
1. PFAS laboratory analysis was completed utilizing method ENV-SOP-MIN4-0178.
 2. ug/kg = microgram per kilogram
 3. -- = Criteria Not Established
 4. DC RCL - Wisconsin Department of Natural Resources (WDNR) Direct-Contact Residual Contaminant Level
 5. U.S. EPA RSL - U.S. Environmental Protection Agency Regional Screening Level, TR=1E-06, THQ=1.0
 6. J = Estimated concentration at or above Limit of Detection (LOD) and below Limit of Quantification (LOQ).
 7. I = Isotope ratio out of specification
 8. D = Result obtained from analysis of diluted sample
 9. **Bold** values signify a detection
 10. **Bold and highlighted** values exceed Wisconsin Department of Natural Resources (WDNR) Direct-Contact Residual Contaminant Level

Table 3 - Shallow Soil PFAS Analytical Results
 3M Menomonie Soil and Groundwater Investigation
 Menomonie, Wisconsin

Parameter	Units	CAS Number	Non-Industrial DC RCL	Industrial DC RCL	Boring ID	SB-15	SB-16	SB-17	SB-17 Dup	SB-18	SB-19	SB-20	SB-21	SB-22	SB-23			
					Depth (ft bgs)	1.5-2	1.5-2	1.5-2	1.5-2	1.5-2	1.5-2	1.5-2	1.5-2	1.5-2	1.5-2			
					Date	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/28/2022	11/29/2022	11/29/2022	11/29/2022		
Perfluoroalkyl Carboxylates/Carboxylic Acids (PFCA)																		
Perfluorobutanoic acid (PFBA)	ug/kg	375-22-4	--	--		0.053	J	0.083	J	ND	ND	ND	ND	0.033	J	ND	ND	ND
Perfluoropentanoic acid (PFPeA)	ug/kg	2706-90-3	--	--		0.044	J	ND		ND	ND	ND	ND	ND		ND	ND	ND
Perfluorohexanoic acid (PFHxA)	ug/kg	307-24-4	--	--		0.081	J	0.038	IJ	ND	ND	ND	ND	ND		ND	ND	ND
Perfluoroheptanoic acid (PFHpA)	ug/kg	375-85-9	--	--		ND		ND		ND	ND	ND	ND	ND		ND	ND	ND
Perfluorooctanoic acid (PFOA)	ug/kg	335-67-1	1,260	16,400		0.064	J	0.08	J	ND	ND	ND	ND	0.092	J	0.039	J	ND
Perfluorononanoic acid (PFNA)	ug/kg	375-95-1	--	--		ND		ND		ND	ND	ND	ND	ND		ND	ND	ND
Perfluorodecanoic acid (PFDA)	ug/kg	335-76-2	--	--		ND		ND		ND	ND	ND	ND	ND		ND	ND	ND
Perfluoroundecanoic acid (PFUnDA/PFUdA)	ug/kg	2058-94-8	--	--		ND		ND		ND	ND	ND	ND	ND		ND	ND	ND
Perfluorododecanoic acid (PFDoA)	ug/kg	307-55-1	--	--		ND		ND		ND	ND	ND	ND	ND		ND	ND	ND
Perfluorotridecanoic acid (PFTTrDA)	ug/kg	72629-94-8	--	--		ND		ND		ND	ND	ND	ND	ND		ND	ND	ND
Perfluorotetradecanoic acid (PFTTeDA)	ug/kg	376-06-7	--	--		ND		ND		ND	ND	ND	ND	ND		ND	ND	ND
Perfluoroalkyl Sulfonates/Sulfonic Acids (PFSA)																		
Perfluorobutane sulfonic acid (PFBS)	ug/kg	375-73-5	1,260,000	164,000,000		ND		ND		ND	ND	ND	ND	ND		ND	ND	ND
Perfluoropentane sulfonic acid (PFPeS)	ug/kg	2706-91-4	--	--		ND		ND		ND	ND	ND	ND	ND		ND	ND	ND
Perfluorohexane sulfonic acid (PFHxS)	ug/kg	355-46-4	--	--		ND		0.13		ND	ND	ND	0.088			ND	0.67	
Perfluoroheptane sulfonic acid (PFHpS)	ug/kg	375-92-8	--	--		0.095		ND		ND	ND	ND	ND	ND		0.081	J	ND
Perfluorooctane sulfonic acid (PFOS)	ug/kg	1763-23-1	1,260	16,400		25 D		1.2		0.096	0.074	J	0.068	J	ND	1.7	18	D
Perfluoronone sulfonic acid (PFNS)	ug/kg	68259-12-1	--	--		0.074	J	ND		ND	ND	ND	ND	ND		ND	ND	ND
Perfluorodecane sulfonic acid (PFDS)	ug/kg	335-77-3	--	--		0.068	J	ND		ND	ND	ND	ND	ND		ND	ND	ND
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	79780-39-5	--	--		0.059	J	ND		ND	ND	ND	ND	ND		ND	ND	ND
Perfluoroalkane Sulfonamides/Sulfonamidoacetic Acids, Sulfonamidoethanols (FASA)																		
Perfluorooctane sulfonamide (PFOSA)	ug/kg	754-91-6	--	--		0.089	J	ND		ND	ND	ND	ND	ND		ND	ND	ND
N-methyl perfluorooctane sulfonamide (NMeFOSA)	ug/kg	31506-32-8	--	--		ND		ND		ND	ND	ND	ND	ND		ND	ND	ND
N-ethyl perfluorooctane sulfonamide (NEtFOSA)	ug/kg	4151-50-2	--	--		ND		ND		ND	ND	ND	ND	ND		ND	ND	ND
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ug/kg	2355-31-9	--	--		ND		ND		ND	ND	ND	ND	ND		ND	ND	ND
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ug/kg	2991-50-6	--	--		ND		ND		ND	ND	ND	ND	ND		ND	ND	ND
N-methyl perfluorooctane sulfonamidoethanol (NMeFOSE)	ug/kg	24448-09-7	--	--		ND		ND		ND	ND	ND	ND	ND		ND	ND	ND
N-ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	ug/kg	1691-99-2	--	--		ND		ND		ND	ND	ND	ND	ND		ND	ND	ND
Fluorotelomer Substances (FTS)																		
4:2 Fluorotelomer sulfonic acid (4:2FTS)	ug/kg	757124-72-4	--	--		ND		ND		ND	ND	ND	ND	ND		ND	ND	ND
6:2 Fluorotelomer sulfonic acid (6:2FTS)	ug/kg	27619-97-2	--	--		ND		ND		ND	ND	ND	ND	ND		ND	ND	ND
8:2 Fluorotelomer sulfonic acid (8:2FTS)	ug/kg	39108-34-4	--	--		ND		ND		ND	ND	ND	ND	ND		ND	ND	ND
Replacement Chemicals																		
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	13252-13-6	--	--		ND		ND		ND	ND	ND	ND	ND		ND	ND	ND
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	919005-14-4	--	--		ND		ND		ND	ND	ND	ND	ND		ND	ND	ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ug/kg	756426-58-1	--	--		ND		ND		ND	ND	ND	ND	ND		ND	ND	ND
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ug/kg	763051-92-9	--	--		ND		ND		ND	ND	ND	ND	ND		ND	ND	ND
Combined PFOA and PFOS	ug/kg					25		1.3		0.096	0.074	0.068	ND	1.7		0.092	18	ND

Notes:

1. PFAS laboratory analysis was completed utilizing method ENV-SOP-MIN4-0178.
2. ug/kg = microgram per kilogram
3. -- = Criteria Not Established
4. DC RCL - Wisconsin Department of Natural Resources (WDNR) Direct-Contact Residual Contaminant Level
5. U.S. EPA RSL - U.S. Environmental Protection Agency Regional Screening Level, TR=1E-06, THQ=1.0
6. J = Estimated concentration at or above Limit of Detection (LOD) and below Limit of Quantification (LOQ).
7. I = Isotope ratio out of specification
8. D = Result obtained from analysis of diluted sample
9. **Bold** values signify a detection
10. **Bold and highlighted** values exceed Wisconsin Department of Natural Resources (WDNR) Direct-Contact Residual Contaminant Level

Table 4 - Deep Soil VOCs and PAHs Analytical Results
3M Menomonie Soil and Groundwater Investigation
Menomonie, Wisconsin

Parameter	Units	Boring ID	MW-3	MW-3	MW-3	MW-6	MW-6	MW-7	MW-7	SB-30	SB-30	SB-30
		Depth (ft bls)	4.5-5.5	12.5-13.5	59-60	2-3	58-59	2-3	58-59	4.5-5.5	12.5-13.5	19-20
		Industrial DC RCL Not-To-Exceed D-C RCL	5/3/2023	5/3/2023	5/3/2023	5/3/2023	5/3/2023	5/2/2023	5/2/2023	5/3/2023	5/3/2023	5/3/2023
Volatile Organic Compounds												
Acetone	ug/kg	1,000,000	<445	<375	<400	<325	<258	<230	<209	<372	<409	<371
Allyl chloride	ug/kg	4,540	<56.1	<47.3	<50.5	<41.0	<32.5	<29.1	<26.4	<46.9	<51.6	<46.8
Benzene	ug/kg	7,070	<7.1	<6.0	<6.4	<5.2	<4.1	<3.7	34.3	<6.0	<6.5	<6.0
Bromobenzene	ug/kg	679,000	<17.5	<14.8	<15.8	<12.8	<10.2	<9.1	<8.3	<14.7	<16.1	<14.6
Bromochloromethane	ug/kg	906,000	<7.0	<5.9	<6.3	<5.1	<4.0	<3.6	<3.3	<5.8	<6.4	<5.8
Bromodichloromethane	ug/kg	1,830	<16.9	<14.3	<15.3	<12.4	<9.8	<8.8	<8.0	<14.2	<15.6	<14.1
Bromoform	ug/kg	113,000	<96.5	<81.3	<86.8	<70.6	<55.9	<49.9	<45.4	<80.7	<88.6	<80.5
Bromomethane	ug/kg	43,000	<104	<87.8	<93.8	<76.2	<60.4	<54.0	<49.1	<87.2	<95.8	<87.0
n-Butylbenzene	ug/kg	--	<12.4	<10.4	<11.1	<9.0	<7.2	<6.4	<5.8	<10.3	<11.3	<10.3
sec-Butylbenzene	ug/kg	--	<16.0	<13.5	<14.4	<11.7	<9.3	<8.3	<7.5	<13.4	<14.7	<13.4
tert-Butylbenzene	ug/kg	--	<11.0	<9.3	<9.9	<8.0	<6.4	<5.7	<5.2	<9.2	<10.1	<9.2
Carbon tetrachloride	ug/kg	4,030	<7.8	<6.6	<7.0	<5.7	<4.5	<4.0	<3.7	<6.5	<7.2	<6.5
Chlorobenzene	ug/kg	761,000	<12.6	<10.6	<11.3	<9.2	<7.3	<6.5	<5.9	<10.5	<11.6	<10.5
Chloroethane	ug/kg	--	<108	<91.0	<97.2	<79.0	<62.6	<55.9	<50.9	<90.3	<99.2	<90.1
Chloroform	ug/kg	1,980	<14.2	<12.0	<12.8	<10.4	<8.3	<7.4	<6.7	<11.9	<13.1	<11.9
Chloromethane	ug/kg	669,000	<43.9	<37.0	<39.5	<32.1	<25.4	<22.7	<20.7	<36.7	<40.3	<36.6
2-Chlorotoluene	ug/kg	907,000	<12.5	<10.5	<11.2	<9.1	<7.2	<6.5	<5.9	<10.4	<11.5	<10.4
4-Chlorotoluene	ug/kg	253,000	<6.9	<5.8	<6.2	<5.1	<4.0	<3.6	<3.3	<5.8	<6.4	<5.8
1,2-Dibromo-3-chloropropane	ug/kg	92	<24.5	<20.6	<22.0	<17.9	<14.2	<12.7	<11.5	<20.5	<22.5	<20.4
Dibromochloromethane	ug/kg	38,900	<113	<95.5	<102	<82.9	<65.7	<58.7	<53.4	<94.8	<104	<94.6
1,2-Dibromoethane (EDB)	ug/kg	2,870	<19.8	<16.7	<17.8	<14.5	<11.5	<10.2	<9.3	<16.5	<18.2	<16.5
Dibromomethane	ug/kg	143,000	<22.7	<19.1	<20.4	<16.6	<13.2	<11.8	<10.7	<19.0	<20.9	<19.0
1,2-Dichlorobenzene	ug/kg	376,000	<11.8	<9.9	<10.6	<8.6	<6.8	<6.1	<5.5	<9.8	<10.8	<9.8
1,3-Dichlorobenzene	ug/kg	297,000	<17.1	<14.4	<15.4	<12.5	<9.9	<8.8	<8.0	<14.3	<15.7	<14.2
1,4-Dichlorobenzene	ug/kg	16,400	<9.4	<8.0	<8.5	<6.9	<5.5	<4.9	<4.4	<7.9	<8.7	<7.9
Dichlorodifluoromethane	ug/kg	530,000	<30.0	<25.3	<27.0	<21.9	<17.4	<15.5	<14.1	<25.1	<27.6	<25.0
1,1-Dichloroethane	ug/kg	22,200	<20.5	<17.2	<18.4	<15.0	<11.9	<10.6	<9.6	<17.1	<18.8	<17.1
1,2-Dichloroethane	ug/kg	2,870	<19.9	<16.8	<17.9	<14.5	<11.5	<10.3	<9.4	<16.6	<18.3	<16.6
1,1-Dichloroethene	ug/kg	--	<16.5	<13.9	<14.8	<12.0	<9.5	<8.5	<7.8	<13.8	<15.1	<13.7
cis-1,2-Dichloroethene	ug/kg	--	<12.9	<10.9	<11.6	<9.5	<7.5	<6.7	<6.1	<10.8	<11.9	<10.8
trans-1,2-Dichloroethene	ug/kg	--	<11.0	<9.3	<9.9	<8.1	<6.4	<5.7	<5.2	<9.2	<10.1	<9.2
Dichlorofluoromethane	ug/kg	530,000	<27.3	<23.0	<24.6	<20.0	<15.8	<14.1	<12.9	<22.8	<25.1	<22.8
1,2-Dichloropropane	ug/kg	15,000	<16.6	<14.0	<14.9	<12.1	<9.6	<8.6	<7.8	<13.9	<15.2	<13.8
1,3-Dichloropropane	ug/kg	1,490,000	<19.1	<16.1	<17.2	<13.9	<11.0	<9.9	<9.0	<15.9	<17.5	<15.9
2,2-Dichloropropane	ug/kg	191,000	<21.4	<18.0	<19.3	<15.7	<12.4	<11.1	<10.1	<17.9	<19.7	<17.9
1,1-Dichloropropene	ug/kg	--	<12.4	<10.4	<11.1	<9.0	<7.2	<6.4	<5.8	<10.3	<11.3	<10.3
cis-1,3-Dichloropropene	ug/kg	1,210,000	<17.8	<15.0	<16.0	<13.0	<10.3	<9.2	<8.4	<14.9	<16.3	<14.8
trans-1,3-Dichloropropene	ug/kg	1,510,000	<17.8	<15.0	<16.0	<13.0	<10.3	<9.2	<8.4	<14.9	<16.3	<14.8
Diethyl ether (Ethyl ether)	ug/kg	10,100,000	<17.2	<14.5	<15.5	<12.6	<10	<8.9	<8.1	<14.4	<15.8	<14.3
Ethylbenzene	ug/kg	35,400	<10.1	<8.5	<9.1	<7.4	<5.9	<5.2	<4.8	<8.5	<9.3	<8.4
Hexachloro-1,3-butadiene	ug/kg	7,190	<15.8	<13.3	<14.2	<11.5	<9.1	<8.2	<7.4	<13.2	<14.5	<13.2
Isopropylbenzene (Cumene)	ug/kg	--	<14.5	<12.2	<13.0	<10.6	<8.4	<7.5	<6.8	<12.1	<13.3	<12.1
p-Isopropyltoluene	ug/kg	162,000	<8.4	<7.1	<7.5	<6.1	<4.9	<4.3	<3.9	<7.0	<7.7	<7.0
Methylene Chloride	ug/kg	1,150,000	<97.6	<82.3	<87.9	<71.4	<56.6	<50.6	<46.0	<81.7	<89.7	<81.5
Methyl-tert-butyl ether	ug/kg	282,000	<22.5	<18.9	<20.2	<16.4	<13.0	<11.6	<10.6	<18.8	<20.6	<18.8
Naphthalene	ug/kg	24,100	<14.4	<12.1	<12.9	<10.5	<8.3	<7.4	<6.8	<12.0	<13.2	<12.0
n-Propylbenzene	ug/kg	264,000	<13.4	<11.3	<12.1	<9.8	<7.8	<6.9	<6.3	<11.2	<12.3	<11.2
Styrene	ug/kg	867,000	<11.4	<9.6	<10.2	<8.3	<6.6	<5.9	<5.4	<9.5	<10.5	<9.5
1,1,1,2-Tetrachloroethane	ug/kg	12,300	<18.9	<16.0	<17.1	<13.9	<11.0	<9.8	<8.9	<15.8	<17.4	<15.8
1,1,2,2-Tetrachloroethane	ug/kg	3,600	<15.6	<13.2	<14.1	<11.4	<9.1	<8.1	<7.4	<13.1	<14.4	<13.1
Tetrachloroethene	ug/kg	--	<9.9	<8.3	<8.9	<7.2	<5.7	<5.1	<4.7	<8.3	<9.1	<8.3
Tetrahydrofuran	ug/kg	100,000,000	<46.5	<39.2	<41.8	<34.0	<26.9	<24.1	<21.9	<38.9	<42.7	<38.8
Toluene	ug/kg	818,000	<22.2	<18.7	<20.0	<16.3	<12.9	<11.5	65.4	<18.6	<20.4	<18.6
1,2,3-Trichlorobenzene	ug/kg	934,000	<16.2	<13.7	<14.6	<11.9	<9.4	<8.4	<7.6	<13.6	<14.9	<13.6
1,2,4-Trichlorobenzene	ug/kg	113,000	<15.3	<12.9	<13.8	<11.2	<8.9	<7.9	<7.2	<12.8	<14.0	<12.8
1,1,1-Trichloroethane	ug/kg	640,000	<15.6	<13.2	<14.1	<11.4	<9.1	<8.1	<7.4	<13.1	<14.4	<13.1
1,1,2-Trichloroethane	ug/kg	7,010	<16.2	<13.7	<14.6	<11.9	<9.4	<8.4	<7.6	<13.6	<14.9	<13.6
Trichloroethene	ug/kg	--	<14.9	<12.6	<13.5	<10.9	<8.7	<7.7	<7.0	<12.5	<13.7	<12.5
Trichlorofluoromethane	ug/kg	1,230,000	<24.1	<20.3	<21.7	<17.6	<14.0	<12.5	<11.4	<20.2	<22.2	<20.1
1,2,3-Trichloropropane	ug/kg	109	<22.8	<19.2	<20.5	<16.7	<13.2	<11.8	<10.8	<19.1	<21.0	<19.0
1,1,1,2-Trichlorotrifluoroethane	ug/kg	--	<16.6	<14.0	<14.9	<12.1	<9.6	<8.6	<7.8	<13.9	<15.2	<13.8
1,2,4-Trimethylbenzene	ug/kg	219,000	<12.4	<10.4	<11.1	<9.0	<7.2	<6.4	<5.8	<10.3	<11.3	<10.3
1,3,5-Trimethylbenzene	ug/kg	182,000	<8.0	<6.7	<7.2	<5.8	<4.6	<4.1	<3.8	<6.7	<7.3	<6.6
Vinyl chloride	ug/kg	2,080	<10.4	<8.8	<9.4	<7.6	<6.1	<5.4	<4.9	<8.7	<9.6	<8.7
Xylene (Total)	ug/kg	--	<22.2	<18.7	<20.0	<16.3	<12.9	<11.5	<10.5	<18.6	<20.4	<18.6
m&p-Xylene	ug/kg	388,000	<22.2	<18.7	<20.0	<16.3	<12.9	<11.5	<10.5	<18.6	<20.4	<18.6
o-Xylene	ug/kg	434,000	<14.1	<11.9	<12.7	<10.3	<8.2	<7.3	<6.7	<11.8	<13.0	<11.8
Polycyclic Aromatic Hydrocarbons (PAHs)												
Acenaphthene	ug/kg	45,200,000	-	-	-	<2.1	<2.1	<2.2	<2.1	-	-	-
Acenaphthylene	ug/kg	--	-	-	-	<1.2	<1.1	<1.2	<1.2	-	-	-
Anthracene	ug/kg	100,000,000	-	-	-	<0.97	<0.94	<0.99	<0.96	-	-	-
Benzo(a)anthracene	ug/kg	20,800.0	-	-	-	<1.8	<1.7	<1.8	<1.8	-	-	-
Benzo(a)pyrene	ug/kg	2,110.00	-	-	-	<1.2	<1.2	<1.2	<1.2	-	-	-
Benzo(b)fluoranthene	ug/kg	21,100.0	-	-	-	<1.1	<1.0	<1.1	<1.0	-	-	-
Benzo(g,h,i)perylene	ug/kg	--	-	-	-	<2.0	<1.9	<2.0	<2.0	-	-	-
Benzo(k)fluoranthene	ug/kg	211,000	-	-	-	<1.1	<1.0	<1.1	<1.1	-	-	-
Chrysene	ug/kg	2,110,000	-	-	-	<1.1	<1.0	<1.1	<1.1	-	-	-
Dibenz(a,h)anthracene	ug/kg	176,000	-	-	-	<1.3	<1.2	<1.3	<1.2	-	-	-
Fluoranthene	ug/kg	30,100,000	-	-	-	<0.77	<0.74	<0.78	<0.76	-	-	-

Table 5 - Deep Soil PFAS Analytical Results
 3M Menomonie Soil and Groundwater Investigation
 Menomonie, Wisconsin

Parameter	Units	CAS Number	Non-Industrial DC RCL	Industrial DC RCL	Boring ID	HA-30	HA-30	HA-30	HA-31	HA-31	HA-31	HA-32	HA-32	HA-33	HA-33	SB-28	SB-28
					Depth (ft bls)	5-6	9-10	9-10 Dup	3.5-4.5	8.5-9.5	8.5-9.5 Dup	4-5	8.5-9.5	4-5	8.5-9.5	24-25	29-30
					Date	5/5/2023	5/5/2023	5/5/2023	5/5/2023	5/5/2023	5/5/2023	5/5/2023	5/5/2023	5/5/2023	5/5/2023	5/4/2023	5/4/2023
Perfluoroalkyl Carboxylates/Carboxylic Acids (PFCA)																	
Perfluorobutanoic acid (PFBA)	ug/kg	375-22-4	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoropentanoic acid (PFPeA)	ug/kg	2706-90-3	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorohexanoic acid (PFHxA)	ug/kg	307-24-4	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoroheptanoic acid (PFHpA)	ug/kg	375-85-9	--	--		0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorooctanoic acid (PFOA)	ug/kg	335-67-1	1,260	16,400		0.41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorononanoic acid (PFNA)	ug/kg	375-95-1	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorodecanoic acid (PFDA)	ug/kg	335-76-2	--	--		0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoroundecanoic acid (PFUnDA/PFUdA)	ug/kg	2058-94-8	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorododecanoic acid (PFDoA)	ug/kg	307-55-1	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotridecanoic acid (PFTeDA)	ug/kg	72629-94-8	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	376-06-7	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoroalkyl Sulfonates/Sulfonic Acids (PFSA)																	
Perfluorobutane sulfonic acid (PFBS)	ug/kg	375-73-5	1,260,000	164,000,000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoropentane sulfonic acid (PFPeS)	ug/kg	2706-91-4	--	--		0.33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorohexane sulfonic acid (PFHxS)	ug/kg	355-46-4	--	--		12.3	3.7	4.7	ND	2.6	1.9	4	1.2	5	3.9	0.11	0.12
Perfluoroheptane sulfonic acid (PFHpS)	ug/kg	375-92-8	--	--		1.6	ND	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND
Perfluorooctane sulfonic acid (PFOS)	ug/kg	1763-23-1	1,260	16,400		725	640	755	240	646	357	413	975	929	463	1	0.36
Perfluoronone sulfonic acid (PFNS)	ug/kg	68259-12-1	--	--		8.5	3.3	4.4	6.3	2	ND	4.1	14.4	9.6	ND	ND	ND
Perfluorodecane sulfonic acid (PFDS)	ug/kg	335-77-3	--	--		0.39	ND	ND	3.6	ND	ND	2.4	ND	3.8	ND	ND	ND
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	79780-39-5	--	--		0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoroalkane Sulfonamides/Sulfonamidoacetic Acids, Sulfonamidoethanols (FASA)																	
Perfluorooctane sulfonamide (PFOSA)	ug/kg	754-91-6	--	--		1.5	ND	ND	3.7	ND	ND	3.8	1.1	3.1	ND	ND	ND
N-methyl perfluorooctane sulfonamide (NMeFOSA)	ug/kg	31506-32-8	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-ethyl perfluorooctane sulfonamide (NEtFOSA)	ug/kg	4151-50-2	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ug/kg	2355-31-9	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ug/kg	2991-50-6	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-methyl perfluorooctane sulfonamidoethanol (NMeFOSE)	ug/kg	24448-09-7	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	ug/kg	1691-99-2	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorotelomer Substances (FTS)																	
4:2 Fluorotelomer sulfonic acid (4:2FTS)	ug/kg	757124-72-4	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6:2 Fluorotelomer sulfonic acid (6:2FTS)	ug/kg	27619-97-2	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8:2 Fluorotelomer sulfonic acid (8:2FTS)	ug/kg	39108-34-4	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Replacement Chemicals																	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	13252-13-6	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	919005-14-4	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ug/kg	756426-58-1	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ug/kg	763051-92-9	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined PFOA and PFOS	ug/kg		--	--		725	640	755	240	646	357	413	975	929	463	1	0.36

- Notes:
1. PFAS laboratory analysis was completed utilizing method ENV-SOP-MIN4-0178.
 2. ug/kg = microgram per kilogram
 3. -- = Criteria Not Established
 4. DC RCL - Wisconsin Department of Natural Resources (WDNR) Direct-Contact Residual Contaminant Level
 5. U.S. EPA RSL - U.S. Environmental Protection Agency Regional Screening Level, TR=1E-06, THQ=1.0
 6. **Bold** values signify a detection
 7. **Bold and highlighted** values exceed Wisconsin Department of Natural Resources (WDNR) Direct-Contact Residual Contaminant Level

Table 5 - Deep Soil PFAS Analytical Results
 3M Menomonie Soil and Groundwater Investigation
 Menomonie, Wisconsin

Parameter	Units	CAS Number	Non-Industrial DC RCL	Industrial DC RCL	Boring ID	SB-29	SB-29	SB-30	SB-30	SB-30	SB-31	SB-31	SB-31	SB-32	SB-32	MW-2	MW-2
					Depth (ft bls)	24-25	29-30	4.5-5.5	12.5-13.5	19-20	1-2	9-10	9-10 Dup	1-2	9-10	4.5-5.5	11.5-12.5
					Date	5/4/2023	5/4/2023	5/3/2023	5/3/2023	5/3/2023	5/2/2023	5/2/2023	5/2/2023	5/3/2023	5/3/2023	5/5/2023	5/5/2023
Perfluoroalkyl Carboxylates/Carboxylic Acids (PFCA)																	
Perfluorobutanoic acid (PFBA)	ug/kg	375-22-4	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoropentanoic acid (PFPeA)	ug/kg	2706-90-3	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorohexanoic acid (PFHxA)	ug/kg	307-24-4	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoroheptanoic acid (PFHpA)	ug/kg	375-85-9	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorooctanoic acid (PFOA)	ug/kg	335-67-1	1,260	16,400		0.11	ND	ND	2.2	ND	ND	ND	ND	0.19	ND	ND	ND
Perfluorononanoic acid (PFNA)	ug/kg	375-95-1	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorodecanoic acid (PFDA)	ug/kg	335-76-2	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoroundecanoic acid (PFUnDA/PFUdA)	ug/kg	2058-94-8	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorododecanoic acid (PFDoA)	ug/kg	307-55-1	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotridecanoic acid (PFTTrDA)	ug/kg	72629-94-8	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotetradecanoic acid (PFTTeDA)	ug/kg	376-06-7	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoroalkyl Sulfonates/Sulfonic Acids (PFSA)																	
Perfluorobutane sulfonic acid (PFBS)	ug/kg	375-73-5	1,260,000	164,000,000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoropentane sulfonic acid (PFPeS)	ug/kg	2706-91-4	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorohexane sulfonic acid (PFHxS)	ug/kg	355-46-4	--	--		1	1.4	ND	2	ND	ND	ND	ND	0.61	ND	ND	0.21
Perfluoroheptane sulfonic acid (PFHpS)	ug/kg	375-92-8	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.54
Perfluorooctane sulfonic acid (PFOS)	ug/kg	1763-23-1	1,260	16,400		0.57	0.12	329	65.3	12.9	ND	ND	ND	ND	ND	2.5	104
Perfluoronone sulfonic acid (PFNS)	ug/kg	68259-12-1	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorodecane sulfonic acid (PFDS)	ug/kg	335-77-3	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	79780-39-5	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoroalkane Sulfonamides/Sulfonamidoacetic Acids, Sulfonamidoethanols (FASA)																	
Perfluorooctane sulfonamide (PFOSA)	ug/kg	754-91-6	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-methyl perfluorooctane sulfonamide (NMeFOSA)	ug/kg	31506-32-8	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-ethyl perfluorooctane sulfonamide (NEtFOSA)	ug/kg	4151-50-2	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ug/kg	2355-31-9	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ug/kg	2991-50-6	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-methyl perfluorooctane sulfonamidoethanol (NMeFOSE)	ug/kg	24448-09-7	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	ug/kg	1691-99-2	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorotelomer Substances (FTS)																	
4:2 Fluorotelomer sulfonic acid (4:2FTS)	ug/kg	757124-72-4	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6:2 Fluorotelomer sulfonic acid (6:2FTS)	ug/kg	27619-97-2	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8:2 Fluorotelomer sulfonic acid (8:2FTS)	ug/kg	39108-34-4	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Replacement Chemicals																	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	13252-13-6	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	919005-14-4	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ug/kg	756426-58-1	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ug/kg	763051-92-9	--	--		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined PFOA and PFOS	ug/kg		--	--		0.68	0.12	329	67.5	12.9	ND	ND	ND	0.19	ND	2.5	104

- Notes:**
1. PFAS laboratory analysis was completed utilizing method ENV-SOP-MIN4-0178.
 2. ug/kg = microgram per kilogram
 3. -- = Criteria Not Established
 4. DC RCL - Wisconsin Department of Natural Resources (WDNR) Direct-Contact Residual Contaminant Level
 5. U.S. EPA RSL - U.S. Environmental Protection Agency Regional Screening Level, TR=1E-06, THQ=1.0
 6. **Bold** values signify a detection
 7. **Bold and highlighted** values exceed Wisconsin Department of Natural Resources (WDNR) Direct-Contact Residual Contaminant Level

Table 5 - Deep Soil PFAS Analytical Results
 3M Menomonie Soil and Groundwater Investigation
 Menomonie, Wisconsin

Parameter	Units	CAS Number	Non-Industrial DC RCL	Industrial DC RCL	Boring ID	MW-2	MW-3	MW-3	MW-3	MW-4	MW-5	MW-6	MW-6	MW-7	MW-7
					Depth (ft bls)	59-60	4.5-5.5	12.5-13.5	59-60	63-64	64-65	2-3	58-59	2-3	58-59
					Date	5/5/2023	5/3/2023	5/3/2023	5/3/2023	5/1/2023	5/1/2023	5/3/2023	5/3/2023	5/2/2023	5/2/2023
Perfluoroalkyl Carboxylates/Carboxylic Acids (PFCA)															
Perfluorobutanoic acid (PFBA)	ug/kg	375-22-4	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.15	ND
Perfluoropentanoic acid (PFPeA)	ug/kg	2706-90-3	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorohexanoic acid (PFHxA)	ug/kg	307-24-4	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoroheptanoic acid (PFHpA)	ug/kg	375-85-9	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorooctanoic acid (PFOA)	ug/kg	335-67-1	1,260	16,400	ND	ND	ND	0.53	ND	ND	ND	ND	ND	ND	ND
Perfluorononanoic acid (PFNA)	ug/kg	375-95-1	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorodecanoic acid (PFDA)	ug/kg	335-76-2	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoroundecanoic acid (PFUnDA/PFUdA)	ug/kg	2058-94-8	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorododecanoic acid (PFDoA)	ug/kg	307-55-1	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotridecanoic acid (PFTTrDA)	ug/kg	72629-94-8	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotetradecanoic acid (PFTTeDA)	ug/kg	376-06-7	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoroalkyl Sulfonates/Sulfonic Acids (PFSA)															
Perfluorobutane sulfonic acid (PFBS)	ug/kg	375-73-5	1,260,000	164,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoropentane sulfonic acid (PFPeS)	ug/kg	2706-91-4	--	--	ND	ND	ND	0.1	ND	ND	ND	ND	ND	ND	ND
Perfluorohexane sulfonic acid (PFHxS)	ug/kg	355-46-4	--	--	ND	ND	ND	12.8	ND	ND	ND	ND	ND	ND	ND
Perfluoroheptane sulfonic acid (PFHpS)	ug/kg	375-92-8	--	--	ND	ND	ND	0.19	ND	ND	ND	ND	ND	ND	ND
Perfluorooctane sulfonic acid (PFOS)	ug/kg	1763-23-1	1,260	16,400	4.7	11.3	17.3	4.3	ND	0.24	0.17	ND	ND	ND	ND
Perfluoronone sulfonic acid (PFNS)	ug/kg	68259-12-1	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorodecane sulfonic acid (PFDS)	ug/kg	335-77-3	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	79780-39-5	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoroalkane Sulfonamides/Sulfonamidoacetic Acids, Sulfonamidoethanols (FASA)															
Perfluorooctane sulfonamide (PFOSA)	ug/kg	754-91-6	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-methyl perfluorooctane sulfonamide (NMeFOSA)	ug/kg	31506-32-8	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-ethyl perfluorooctane sulfonamide (NEtFOSA)	ug/kg	4151-50-2	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ug/kg	2355-31-9	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ug/kg	2991-50-6	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-methyl perfluorooctane sulfonamidoethanol (NMeFOSE)	ug/kg	24448-09-7	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	ug/kg	1691-99-2	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorotelomer Substances (FTS)															
4:2 Fluorotelomer sulfonic acid (4:2FTS)	ug/kg	757124-72-4	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6:2 Fluorotelomer sulfonic acid (6:2FTS)	ug/kg	27619-97-2	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8:2 Fluorotelomer sulfonic acid (8:2FTS)	ug/kg	39108-34-4	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Replacement Chemicals															
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	13252-13-6	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	919005-14-4	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ug/kg	756426-58-1	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ug/kg	763051-92-9	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined PFOA and PFOS	ug/kg		--	--	4.7	11.3	17.3	4.8	ND	0.24	0.17	ND	ND	ND	ND

Notes:

1. PFAS laboratory analysis was completed utilizing method ENV-SOP-MIN4-0178.
2. ug/kg = microgram per kilogram
3. -- = Criteria Not Established
4. DC RCL - Wisconsin Department of Natural Resources (WDNR) Direct-Contact Residual Contaminant Level
5. U.S. EPA RSL - U.S. Environmental Protection Agency Regional Screening Level, TR=1E-06, THQ=1.0
6. **Bold** values signify a detection
7. **Bold and highlighted** values exceed Wisconsin Department of Natural Resources (WDNR) Direct-Contact Residual Contaminant Level

Table 6 - Groundwater VOCs, PAHs, and RCRA Metals Analytical Results
3M Menomonie Soil and Groundwater Investigation
Menomonie, Wisconsin

Parameter	Units	Boring ID		MW-1	MW-2	MW-3	MW-3 Dup	MW-4	MW-5	MW-6	MW-7
		ES	PAL	5/8/2023	5/9/2023	5/8/2023	5/8/2023	5/8/2023	5/8/2023	5/8/2023	5/8/2023
Volatile Organic Compounds											
Acetone	ug/L	9,000	1,800	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Allyl chloride	ug/L	--	--	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Benzene	ug/L	5	0.5	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Bromobenzene	ug/L	--	--	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
Bromochloromethane	ug/L	--	--	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Bromodichloromethane	ug/L	0.6	0.06	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
Bromoform	ug/L	4.4	0.4	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22
Bromomethane	ug/L	10	1	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
n-Butylbenzene	ug/L	--	--	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096
sec-Butylbenzene	ug/L	--	--	<0.097	<0.097	<0.097	<0.097	<0.097	<0.097	<0.097	<0.097
tert-Butylbenzene	ug/L	--	--	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091
Carbon tetrachloride	ug/L	5	0.5	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
Chlorobenzene	ug/L	--	--	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
Chloroethane	ug/L	400	80	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Chloroform	ug/L	6	0.6	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
Chloromethane	ug/L	30	3	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
2-Chlorotoluene	ug/L	--	--	<0.098	<0.098	<0.098	<0.098	<0.098	<0.098	<0.098	<0.098
4-Chlorotoluene	ug/L	--	--	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
1,2-Dibromo-3-chloropropane	ug/L	0.2	0.02	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
Dibromochloromethane	ug/L	60	6	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dibromoethane (EDB)	ug/L	0.05	0.005	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromomethane	ug/L	--	--	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
1,2-Dichlorobenzene	ug/L	600	60	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
1,3-Dichlorobenzene	ug/L	1,250	125	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
1,4-Dichlorobenzene	ug/L	75	15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Dichlorodifluoromethane	ug/L	1,000	200	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079
1,1-Dichloroethane	ug/L	850	85	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
1,2-Dichloroethane	ug/L	5	0.5	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
1,1-Dichloroethene	ug/L	7	0.7	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
cis-1,2-Dichloroethene	ug/L	70	7	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
trans-1,2-Dichloroethene	ug/L	100	20	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Dichlorofluoromethane	ug/L	1,000	200	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
1,2-Dichloropropane	ug/L	5	0.5	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
1,3-Dichloropropane	ug/L	--	--	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
2,2-Dichloropropane	ug/L	--	--	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
1,1-Dichloropropene	ug/L	--	--	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
cis-1,3-Dichloropropene	ug/L	0.4	0.04	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057
trans-1,3-Dichloropropene	ug/L	0.4	0.04	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
Diethyl ether (Ethyl ether)	ug/L	1,000	100	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Ethylbenzene	ug/L	700	140	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
Hexachloro-1,3-butadiene	ug/L	--	--	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
Isopropylbenzene (Cumene)	ug/L	--	--	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
p-Isopropyltoluene	ug/L	--	--	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
Methylene Chloride	ug/L	5	0.5	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Methyl-tert-butyl ether	ug/L	60	12	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
Naphthalene	ug/L	100	10	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
n-Propylbenzene	ug/L	--	--	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
Styrene	ug/L	100	10	<0.097	<0.097	<0.097	<0.097	<0.097	<0.097	<0.097	<0.097
1,1,1,2-Tetrachloroethane	ug/L	70	7	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
1,1,2,2-Tetrachloroethane	ug/L	0.2	0.02	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Tetrachloroethene	ug/L	5	0.5	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Tetrahydrofuran	ug/L	50	10	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Toluene	ug/L	800	160	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,2,3-Trichlorobenzene	ug/L	--	--	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
1,2,4-Trichlorobenzene	ug/L	70	14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,1,1-Trichloroethane	ug/L	200	40	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
1,1,2-Trichloroethane	ug/L	5	0.5	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22
Trichloroethene	ug/L	5	0.5	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
Trichlorofluoromethane	ug/L	3,490	698	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
1,2,3-Trichloropropane	ug/L	60	12	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
1,1,2-Trichlorotrifluoroethane	ug/L	--	--	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
1,2,4-Trimethylbenzene	ug/L	--	--	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
1,3,5-Trimethylbenzene	ug/L	--	--	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
Vinyl chloride	ug/L	0.2	0.02	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046
Xylene (Total)	ug/L	2,000	400	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
m&p-Xylene	ug/L	--	--	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
o-Xylene	ug/L	--	--	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	ug/L	--	--	<0.0065	<0.0062	<0.0062	<0.0065	<0.0062	<0.0062	<0.0067	<0.059
Acenaphthylene	ug/L	--	--	<0.0056	<0.0054	<0.0054	<0.0056	<0.0054	<0.0054	<0.0057	<0.051
Anthracene	ug/L	3,000	600	<0.0049	<0.0047	<0.0047	<0.0049	<0.0047	<0.0047	<0.0050	0.091 J
Benzo(a)anthracene	ug/L	--	--	<0.0076	0.02 J	<0.0073	<0.0076	<0.0073	<0.0073	<0.0078	<0.070
Benzo(a)pyrene	ug/L	0.2	0.02	<0.0080	0.014 J	<0.0076	<0.0080	<0.0076	<0.0076	<0.0082	<0.073
Benzo(b)fluoranthene	ug/L	0.2	0.02	<0.0083	0.018 J	<0.0079	<0.0083	<0.0079	<0.0079	<0.0085	<0.076
Benzo(g,h,i)perylene	ug/L	--	--	<0.0088	<0.0084	<0.0084	<0.0088	<0.0084	<0.0084	<0.0089	<0.080
Benzo(k)fluoranthene	ug/L	--	--	<0.0085	0.015 J	<0.0081	<0.0085	<0.0081	<0.0081	<0.0087	<0.077
Chrysene	ug/L	0.2	0.02	<0.0087	0.017 J	<0.0083	<0.0087	<0.0083	<0.0083	<0.0089	<0.079
Dibenz(a,h)anthracene	ug/L	--	--	<0.0079	0.016 J	<0.0076	<0.0079	<0.0076	<0.0076	<0.0081	<0.072
Fluoranthene	ug/L	400	80	0.016 J	<0.012	0.014 J	<0.013	<0.012	<0.012	<0.013	0.12 J
Fluorene	ug/L	400	80	<0.0062	<0.0059	<0.0059	<0.0062	<0.0059	<0.0059	<0.0063	0.074 J
Indeno(1,2,3-cd)pyrene	ug/L	--	--	<0.010	0.017 J	<0.0097	<0.010	<0.0097	<0.0097	<0.010	<0.093
Naphthalene	ug/L	100	10	<0.015	<0.014	<0.014	<0.015	<0.014	<0.014	<0.015	<0.13
Phenanthrene	ug/L	--	--	0.023 J	0.015 J	0.02 J	<0.014	<0.013	0.017 J	0.018 J	0.23 J
Pyrene	ug/L	250	50	0.012 J	0.009 J	0.014 J	<0.0091	<0.0087	<0.0087	<0.0093	0.13 J
RCRA Metals											
Arsenic	ug/L	10	1	<3.5							

Table 7 - Groundwater PFAS Analytical Results
3M Menomonie Soil and Groundwater Investigation
Menomonie, Wisconsin

Parameter	Units	CAS Number	MW-1	MW-2	MW-3	MW-3 Dup	MW-4	MW-5	MW-6	MW-7
			5/8/2023	5/9/2023	5/8/2023	5/8/2023	5/8/2023	5/8/2023	5/8/2023	5/8/2023
Perfluoroalkyl Carboxylates/Carboxylic Acids (PFCA)										
Perfluorobutanoic acid (PFBA)	ng/L	375-22-4	5.2	ND	ND	ND	ND	22	16	7.6
Perfluoropentanoic acid (PFPeA)	ng/L	2706-90-3	ND	ND	ND	ND	ND	ND	2.4	2.3
Perfluorohexanoic acid (PFHxA)	ng/L	307-24-4	ND	ND	69	83	94	ND	5.7	4.3
Perfluoroheptanoic acid (PFHpA)	ng/L	375-85-9	ND	ND	ND	21	ND	ND	3.6	ND
Perfluorooctanoic acid (PFOA)	ng/L	335-67-1	ND	ND	730	890	75	ND	56	ND
Perfluorononanoic acid (PFNA)	ng/L	375-95-1	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorodecanoic acid (PFDA)	ng/L	335-76-2	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoroundecanoic acid (PFUnDA/PFUdA)	ng/L	2058-94-8	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorododecanoic acid (PFDoA)	ng/L	307-55-1	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotridecanoic acid (PFTrDA)	ng/L	72629-94-8	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotetradecanoic acid (PFTeDA)	ng/L	376-06-7	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoroalkyl Sulfonates/Sulfonic Acids (PFSA)										
Perfluorobutane sulfonic acid (PFBS)	ng/L	375-73-5	ND	ND	17	21	ND	ND	8.2	4.7
Perfluoropentane sulfonic acid (PFPeS)	ng/L	2706-91-4	ND	ND	42	52	52	ND	8.4	ND
Perfluorohexane sulfonic acid (PFHxS)	ng/L	355-46-4	ND	230	1800	2500	760	80	260	23
Perfluoroheptane sulfonic acid (PFHpS)	ng/L	375-92-8	ND	22	120	140	ND	ND	ND	ND
Perfluorooctane sulfonic acid (PFOS)	ng/L	1763-23-1	ND	200	1500	1800	1200	350	15	24
Perfluoronone sulfonic acid (PFNS)	ng/L	68259-12-1	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorodecane sulfonic acid (PFDS)	ng/L	335-77-3	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorododecanesulfonic acid (PFDoS)	ng/L	79780-39-5	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoroalkane Sulfonamides/Sulfonamidoacetic Acids, Sulfonamidoethanols (FASA)										
Perfluorooctane sulfonamide (PFOSA)	ng/L	754-91-6	ND	ND	ND	ND	ND	ND	ND	ND
N-methyl perfluorooctane sulfonamide (NMeFOSA)	ng/L	31506-32-8	ND	ND	ND	ND	ND	ND	ND	ND
N-ethyl perfluorooctane sulfonamide (NEtFOSA)	ng/L	4151-50-2	ND	ND	ND	ND	ND	ND	ND	ND
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ng/L	2355-31-9	ND	ND	ND	ND	ND	ND	ND	ND
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ng/L	2991-50-6	ND	ND	ND	ND	ND	ND	ND	ND
N-methyl perfluorooctane sulfonamidoethanol (NMeFOSE)	ng/L	24448-09-7	ND	ND	ND	ND	ND	ND	ND	ND
N-ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	ng/L	1691-99-2	ND	ND	ND	ND	ND	ND	ND	ND
Fluorotelomer Substances (FTS)										
4:2 Fluorotelomer sulfonic acid (4:2FTS)	ng/L	757124-72-4	ND	ND	ND	ND	ND	ND	ND	ND
6:2 Fluorotelomer sulfonic acid (6:2FTS)	ng/L	27619-97-2	ND	ND	ND	ND	ND	ND	ND	ND
8:2 Fluorotelomer sulfonic acid (8:2FTS)	ng/L	39108-34-4	ND	ND	ND	ND	ND	ND	ND	ND
Replacement Chemicals										
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ng/L	13252-13-6	ND	ND	ND	ND	ND	ND	ND	ND
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ng/L	919005-14-4	ND	ND	ND	ND	ND	ND	ND	ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ng/L	756426-58-1	ND	ND	ND	ND	ND	ND	ND	ND
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ng/L	763051-92-9	ND	ND	ND	ND	ND	ND	ND	ND
Combined PFOA and PFOS	ng/L		ND	200	2230	2690	1275	350	71	24

Notes:

1. PFAS laboratory analysis was completed utilizing method ENV-SOP-MIN4-0178.
2. ng/L = nanogram per liter
3. -- = Criteria Not Established
4. **Bold** values signify a detection



July 10, 2023

Chris Bonniwell
Tetra Tech
13555 Bishops Ct. Ste. 201
Brookfield, WI 53005

RE: Project: 117-7383011 3M Ph. 2 CESA
Pace Project No.: 10658860

Dear Chris Bonniwell:

Enclosed are the analytical results for sample(s) received by the laboratory on June 23, 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,

A handwritten signature in black ink, appearing to read "Fiona Parcher".

Fiona Parcher
fiona.parcher@pacelabs.com
(612)607-6435
Project Manager

Enclosures

cc: Eric Carman, Tetra Tech



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 117-7383011 3M Ph. 2 CESA

Pace Project No.: 10658860

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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SAMPLE ANALYTE COUNT

Project: 117-7383011 3M Ph. 2 CESA
Pace Project No.: 10658860

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10658860001	MEWI-GW-MW7-0-230622	EPA 8270E by SIM	JNG	18	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 117-7383011 3M Ph. 2 CESA

Pace Project No.: 10658860

Sample: MEWI-GW-MW7-0-230622	Lab ID: 10658860001	Collected: 06/22/23 09:00	Received: 06/23/23 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH by SIM		Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis						
Acenaphthene	ND	ug/L	0.36	1	06/29/23 16:40	06/30/23 10:48	83-32-9	
Acenaphthylene	ND	ug/L	0.36	1	06/29/23 16:40	06/30/23 10:48	208-96-8	
Anthracene	ND	ug/L	0.36	1	06/29/23 16:40	06/30/23 10:48	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.36	1	06/29/23 16:40	06/30/23 10:48	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.36	1	06/29/23 16:40	06/30/23 10:48	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.36	1	06/29/23 16:40	06/30/23 10:48	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.36	1	06/29/23 16:40	06/30/23 10:48	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.36	1	06/29/23 16:40	06/30/23 10:48	207-08-9	
Chrysene	ND	ug/L	0.36	1	06/29/23 16:40	06/30/23 10:48	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.36	1	06/29/23 16:40	06/30/23 10:48	53-70-3	
Fluoranthene	ND	ug/L	0.36	1	06/29/23 16:40	06/30/23 10:48	206-44-0	
Fluorene	ND	ug/L	0.36	1	06/29/23 16:40	06/30/23 10:48	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.36	1	06/29/23 16:40	06/30/23 10:48	193-39-5	
Naphthalene	ND	ug/L	0.36	1	06/29/23 16:40	06/30/23 10:48	91-20-3	
Phenanthrene	ND	ug/L	0.36	1	06/29/23 16:40	06/30/23 10:48	85-01-8	
Pyrene	ND	ug/L	0.36	1	06/29/23 16:40	06/30/23 10:48	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	58	%	49-125	1	06/29/23 16:40	06/30/23 10:48	321-60-8	P1
p-Terphenyl-d14 (S)	83	%	42-125	1	06/29/23 16:40	06/30/23 10:48	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 117-7383011 3M Ph. 2 CESA

Pace Project No.: 10658860

QC Batch: 890866

Analysis Method: EPA 8270E by SIM

QC Batch Method: EPA 3510C

Analysis Description: 8270E Water PAH by SIM MSSV

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10658860001

METHOD BLANK: 4693959

Matrix: Water

Associated Lab Samples: 10658860001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.040	06/30/23 10:09	
Acenaphthylene	ug/L	ND	0.040	06/30/23 10:09	
Anthracene	ug/L	ND	0.040	06/30/23 10:09	
Benzo(a)anthracene	ug/L	ND	0.040	06/30/23 10:09	
Benzo(a)pyrene	ug/L	ND	0.040	06/30/23 10:09	
Benzo(b)fluoranthene	ug/L	ND	0.040	06/30/23 10:09	
Benzo(g,h,i)perylene	ug/L	ND	0.040	06/30/23 10:09	
Benzo(k)fluoranthene	ug/L	ND	0.040	06/30/23 10:09	
Chrysene	ug/L	ND	0.040	06/30/23 10:09	
Dibenz(a,h)anthracene	ug/L	ND	0.040	06/30/23 10:09	
Fluoranthene	ug/L	ND	0.040	06/30/23 10:09	
Fluorene	ug/L	ND	0.040	06/30/23 10:09	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.040	06/30/23 10:09	
Naphthalene	ug/L	ND	0.040	06/30/23 10:09	
Phenanthrene	ug/L	ND	0.040	06/30/23 10:09	
Pyrene	ug/L	ND	0.040	06/30/23 10:09	
2-Fluorobiphenyl (S)	%	62	49-125	06/30/23 10:09	
p-Terphenyl-d14 (S)	%	100	42-125	06/30/23 10:09	

LABORATORY CONTROL SAMPLE: 4693960

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	1	0.61	61	51-125	
Acenaphthylene	ug/L	1	0.61	61	50-125	
Anthracene	ug/L	1	0.76	76	50-125	
Benzo(a)anthracene	ug/L	1	0.79	79	59-125	
Benzo(a)pyrene	ug/L	1	0.84	84	62-125	
Benzo(b)fluoranthene	ug/L	1	0.83	83	56-125	
Benzo(g,h,i)perylene	ug/L	1	0.81	81	35-125	
Benzo(k)fluoranthene	ug/L	1	0.91	91	59-125	
Chrysene	ug/L	1	0.82	82	60-125	
Dibenz(a,h)anthracene	ug/L	1	0.76	76	30-125	
Fluoranthene	ug/L	1	0.78	78	62-125	
Fluorene	ug/L	1	0.65	65	53-125	
Indeno(1,2,3-cd)pyrene	ug/L	1	0.85	85	50-125	
Naphthalene	ug/L	1	0.58	58	49-125	
Phenanthrene	ug/L	1	0.73	73	56-125	
Pyrene	ug/L	1	0.88	88	60-125	
2-Fluorobiphenyl (S)	%			55	49-125	

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 117-7383011 3M Ph. 2 CESA

Pace Project No.: 10658860

LABORATORY CONTROL SAMPLE: 4693960

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Terphenyl-d14 (S)	%.			96	42-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4693961 4693962

Parameter	20280953003		MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.							
Acenaphthene	ug/L	0.090	1	1	0.81	0.77	72	68	30-125	5	
Acenaphthylene	ug/L	0.0079J	1	1	0.71	0.67	71	66	30-125	6	
Anthracene	ug/L	0.023J	1	1	0.83	0.76	80	73	33-128	9	
Benzo(a)anthracene	ug/L	<0.0076	1	1	0.80	0.71	79	70	33-125	12	
Benzo(a)pyrene	ug/L	<0.0080	1	1	0.84	0.72	84	72	32-125	16	
Benzo(b)fluoranthene	ug/L	<0.0083	1	1	0.84	0.70	84	70	31-125	17	
Benzo(g,h,i)perylene	ug/L	<0.0088	1	1	0.82	0.69	82	69	31-125	17	
Benzo(k)fluoranthene	ug/L	<0.0085	1	1	0.93	0.77	93	77	35-127	19	
Chrysene	ug/L	<0.0087	1	1	0.82	0.73	82	73	39-125	12	
Dibenz(a,h)anthracene	ug/L	<0.0079	1	1	0.88	0.74	88	74	30-125	17	
Fluoranthene	ug/L	0.016J	1	1	0.85	0.76	83	74	43-125	12	
Fluorene	ug/L	0.049	1	1	0.82	0.77	77	72	30-125	6	
Indeno(1,2,3-cd)pyrene	ug/L	<0.010	1	1	0.81	0.69	81	69	30-125	16	
Naphthalene	ug/L	0.62	1	1	1.2	1.1	59	45	31-125	11	
Phenanthrene	ug/L	0.044	1	1	0.82	0.75	78	70	33-125	10	
Pyrene	ug/L	0.023J	1	1	0.86	0.76	83	74	41-125	12	
2-Fluorobiphenyl (S)	%.						64	60	49-125		
p-Terphenyl-d14 (S)	%.						92	81	42-125		

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.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 117-7383011 3M Ph. 2 CESA

Pace Project No.: 10658860

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

P1 Routine initial sample volume or weight was not used for extraction, resulting in elevated reporting limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 117-7383011 3M Ph. 2 CESA
Pace Project No.: 10658860

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10658860001	MEWI-GW-MW7-0-230622	EPA 3510C	890866	EPA 8270E by SIM	891109

REPORT OF LABORATORY ANALYSIS

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Effective Date: 4/14/2023

Sample Condition Upon Receipt	Client Name: <u>TETRA</u>	Project #:	WO#: 10658860
Courier: <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client <input type="checkbox"/> Pace <input type="checkbox"/> Speedee <input type="checkbox"/> Commercial		PM: FEP Due Date: 07/10/23 CLIENT: TETRATECH-MN	
Tracking Number: <u>7802 1824 7122</u>		<input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142	

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

Did Samples Originate in West Virginia? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Were All Container Temps Taken? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Temp should be above freezing to 6 °C	Average Corrected Temp (no temp blank only): _____ °C
Correction Factor: <u>-0.2</u> Cooler temp Read w/Temp Blank: <u>2.6</u> °C	<input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142 <input type="checkbox"/> 1 Container
Cooler Temp Corrected w/temp blank: <u>2.4</u> °C	

USDA Regulated Soil: N/A (water sample/other: _____) Date/Initials of Person Examining Contents: 6.23.23 CM7

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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. If no, write ID/Date/Time of container below: <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other	
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 #
All containers needing preservation are found to be in compliance with EPA recommendation? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> NaOH <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> Zinc Acetate
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 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 <input type="checkbox"/> 0-6 Roll <input type="checkbox"/> 0-6 Strip <input type="checkbox"/> 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: Piper Gibbs Date: 6/23/23

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: 3



July 06, 2023

Chris Bonniwell
Tetra Tech
13555 Bishops Ct. Ste. 201
Brookfield, WI 53005

RE: Project: 117-7383011 3M Phase 2 CESA-Revised Report
Pace Project No.: 10652428

Dear Chris Bonniwell:

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

This report was revised July 6, 2023, to report method 200.7 and 7470A on Pace sample 10652428-007, and to report 200.7 results for Pace samples 10652428-001 through -006, -009.

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

Sincerely,

Fiona Parcher
fiona.parcher@pacelabs.com
(612)607-6435
Project Manager

Enclosures

cc: Eric Carman, Tetra Tech



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

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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SAMPLE ANALYTE COUNT

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10652428001	MEWI-GW-MW-1-0-230508	EPA 200.7	DM	7	PASI-M
		EPA 7470A	LMW	1	PASI-M
		EPA 8270E by SIM	KJ3	18	PASI-M
		EPA 8260D	JEM	72	PASI-M
		SM 3500-Cr B Modified	KEO	1	PASI-M
10652428002	MEWI-GW-MW2-0-230509	EPA 200.7	DM	7	PASI-M
		EPA 7470A	LMW	1	PASI-M
		EPA 8270E by SIM	KJ3	18	PASI-M
		EPA 8260D	JEM	72	PASI-M
		SM 3500-Cr B Modified	KEO	1	PASI-M
10652428003	MEWI-GW-MW3-0-2300508	EPA 200.7	DM	7	PASI-M
		EPA 7470A	LMW	1	PASI-M
		EPA 8270E by SIM	KJ3	18	PASI-M
		EPA 8260D	JEM	72	PASI-M
		SM 3500-Cr B Modified	KEO	1	PASI-M
10652428004	MEWI-GW-MW4-0-230508	EPA 200.7	DM	7	PASI-M
		EPA 7470A	LMW	1	PASI-M
		EPA 8270E by SIM	KJ3	18	PASI-M
		EPA 8260D	JEM	72	PASI-M
		SM 3500-Cr B Modified	KEO	1	PASI-M
10652428005	MEWI-GW-MW5-0-230508	EPA 200.7	DM	7	PASI-M
		EPA 7470A	LMW	1	PASI-M
		EPA 8270E by SIM	KJ3	18	PASI-M
		EPA 8260D	JEM	72	PASI-M
		SM 3500-Cr B Modified	KEO	1	PASI-M
10652428006	MEWI-GW-MW6-0-230508	EPA 200.7	DM	7	PASI-M
		EPA 7470A	LMW	1	PASI-M
		EPA 8270E by SIM	KJ3	18	PASI-M
		EPA 8260D	JEM	72	PASI-M
		SM 3500-Cr B Modified	KEO	1	PASI-M
10652428007	MEWI-GW-MW7-0-230508	EPA 200.7	IP	7	PASI-M
		EPA 8260D	JEM	72	PASI-M
		SM 3500-Cr B Modified	KEO	1	PASI-M
10652428008	Trip Blank	EPA 8260D	JEM	72	PASI-M
10652428009	MEWI-GW-DP-0-230508	EPA 200.7	DM	7	PASI-M
		EPA 7470A	LMW	1	PASI-M
		EPA 8270E by SIM	KJ3	18	PASI-M

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 117-7383011 3M Phase 2 CESA-Revised Report
Pace Project No.: 10652428

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260D	JEM	72	PASI-M
		SM 3500-Cr B Modified	KEO	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS**

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Sample: MEWI-GW-MW-1-0-230508 **Lab ID: 10652428001** Collected: 05/08/23 12:00 Received: 05/09/23 11:37 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Minneapolis								
Arsenic	ND	ug/L	20.0	1	05/11/23 06:50	05/22/23 12:09	7440-38-2	
Barium	36.7	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:09	7440-39-3	
Cadmium	ND	ug/L	3.0	1	05/11/23 06:50	05/22/23 12:09	7440-43-9	
Chromium	39.7	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:09	7440-47-3	
Lead	ND	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:09	7439-92-1	
Selenium	ND	ug/L	20.0	1	05/11/23 06:50	05/22/23 12:09	7782-49-2	
Silver	ND	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:09	7440-22-4	
7470A Mercury								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Pace Analytical Services - Minneapolis								
Mercury	ND	ug/L	0.20	1	05/11/23 07:21	05/16/23 17:17	7439-97-6	
8270E MSSV PAH by SIM								
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C								
Pace Analytical Services - Minneapolis								
Acenaphthene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 15:19	83-32-9	
Acenaphthylene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 15:19	208-96-8	
Anthracene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 15:19	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 15:19	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 15:19	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 15:19	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 15:19	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 15:19	207-08-9	
Chrysene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 15:19	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 15:19	53-70-3	
Fluoranthene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 15:19	206-44-0	
Fluorene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 15:19	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 15:19	193-39-5	
Naphthalene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 15:19	91-20-3	
Phenanthrene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 15:19	85-01-8	
Pyrene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 15:19	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	77	%	49-125	1	05/10/23 12:58	05/17/23 15:19	321-60-8	
p-Terphenyl-d14 (S)	83	%	42-125	1	05/10/23 12:58	05/17/23 15:19	1718-51-0	
8260D MSV								
Analytical Method: EPA 8260D								
Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		05/10/23 16:23	67-64-1	
Allyl chloride	ND	ug/L	2.5	1		05/10/23 16:23	107-05-1	
Benzene	ND	ug/L	1.0	1		05/10/23 16:23	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/10/23 16:23	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/10/23 16:23	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/10/23 16:23	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/10/23 16:23	75-25-2	
Bromomethane	ND	ug/L	2.5	1		05/10/23 16:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/10/23 16:23	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Sample: MEWI-GW-MW-1-0-230508 Lab ID: 10652428001 Collected: 05/08/23 12:00 Received: 05/09/23 11:37 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
n-Butylbenzene	ND	ug/L	1.0	1		05/10/23 16:23	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/10/23 16:23	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/10/23 16:23	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/10/23 16:23	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/10/23 16:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/10/23 16:23	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/10/23 16:23	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/10/23 16:23	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/10/23 16:23	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/10/23 16:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/10/23 16:23	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/10/23 16:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/10/23 16:23	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/10/23 16:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/10/23 16:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/10/23 16:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/10/23 16:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/10/23 16:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/10/23 16:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/10/23 16:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/10/23 16:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/10/23 16:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/10/23 16:23	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		05/10/23 16:23	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/10/23 16:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/10/23 16:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/10/23 16:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/10/23 16:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/10/23 16:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/10/23 16:23	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		05/10/23 16:23	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		05/10/23 16:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/10/23 16:23	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/10/23 16:23	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/10/23 16:23	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/10/23 16:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/10/23 16:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/10/23 16:23	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/10/23 16:23	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/10/23 16:23	103-65-1	
Styrene	ND	ug/L	1.0	1		05/10/23 16:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/10/23 16:23	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/10/23 16:23	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/10/23 16:23	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/10/23 16:23	109-99-9	
Toluene	ND	ug/L	1.0	1		05/10/23 16:23	108-88-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Sample: MEWI-GW-MW-1-0-230508	Lab ID: 10652428001	Collected: 05/08/23 12:00	Received: 05/09/23 11:37	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV								
Analytical Method: EPA 8260D								
Pace Analytical Services - Minneapolis								
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/10/23 16:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/10/23 16:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/10/23 16:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/10/23 16:23	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/10/23 16:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/10/23 16:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/10/23 16:23	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		05/10/23 16:23	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/10/23 16:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/10/23 16:23	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/10/23 16:23	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/10/23 16:23	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/10/23 16:23	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/10/23 16:23	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	97	%	75-125	1		05/10/23 16:23	2199-69-1	
4-Bromofluorobenzene (S)	105	%	75-125	1		05/10/23 16:23	460-00-4	
Toluene-d8 (S)	102	%	75-125	1		05/10/23 16:23	2037-26-5	
Chromium, Hexavalent								
Analytical Method: SM 3500-Cr B Modified								
Pace Analytical Services - Minneapolis								
Chromium, Hexavalent	0.011	mg/L	0.010	1		05/09/23 14:02		H1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Sample: MEWI-GW-MW2-0-230509 Lab ID: 10652428002 Collected: 05/09/23 07:50 Received: 05/09/23 11:37 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Minneapolis								
Arsenic	ND	ug/L	20.0	1	05/11/23 06:50	05/22/23 12:17	7440-38-2	
Barium	50.6	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:17	7440-39-3	
Cadmium	ND	ug/L	3.0	1	05/11/23 06:50	05/22/23 12:17	7440-43-9	
Chromium	42.9	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:17	7440-47-3	
Lead	ND	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:17	7439-92-1	
Silver	ND	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:17	7440-22-4	
Selenium	ND	ug/L	20.0	1	05/11/23 06:50	05/22/23 12:17	7782-49-2	
7470A Mercury								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Pace Analytical Services - Minneapolis								
Mercury	ND	ug/L	0.20	1	05/11/23 07:21	05/16/23 17:19	7439-97-6	
8270E MSSV PAH by SIM								
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C								
Pace Analytical Services - Minneapolis								
Acenaphthene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:38	83-32-9	
Acenaphthylene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:38	208-96-8	
Anthracene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:38	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:38	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:38	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:38	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:38	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:38	207-08-9	
Chrysene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:38	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:38	53-70-3	
Fluoranthene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:38	206-44-0	
Fluorene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:38	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:38	193-39-5	
Naphthalene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:38	91-20-3	
Phenanthrene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:38	85-01-8	
Pyrene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:38	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	65	%	49-125	1	05/10/23 12:58	05/17/23 15:38	321-60-8	
p-Terphenyl-d14 (S)	73	%	42-125	1	05/10/23 12:58	05/17/23 15:38	1718-51-0	
8260D MSV								
Analytical Method: EPA 8260D								
Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		05/10/23 17:57	67-64-1	
Allyl chloride	ND	ug/L	2.5	1		05/10/23 17:57	107-05-1	
Benzene	ND	ug/L	1.0	1		05/10/23 17:57	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/10/23 17:57	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/10/23 17:57	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/10/23 17:57	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/10/23 17:57	75-25-2	
Bromomethane	ND	ug/L	2.5	1		05/10/23 17:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/10/23 17:57	78-93-3	

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ANALYTICAL RESULTS

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Sample: MEWI-GW-MW2-0-230509 Lab ID: 10652428002 Collected: 05/09/23 07:50 Received: 05/09/23 11:37 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
n-Butylbenzene	ND	ug/L	1.0	1		05/10/23 17:57	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/10/23 17:57	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/10/23 17:57	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/10/23 17:57	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/10/23 17:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/10/23 17:57	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/10/23 17:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/10/23 17:57	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/10/23 17:57	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/10/23 17:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/10/23 17:57	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/10/23 17:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/10/23 17:57	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/10/23 17:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/10/23 17:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/10/23 17:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/10/23 17:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/10/23 17:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/10/23 17:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/10/23 17:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/10/23 17:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/10/23 17:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/10/23 17:57	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		05/10/23 17:57	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/10/23 17:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/10/23 17:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/10/23 17:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/10/23 17:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/10/23 17:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/10/23 17:57	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		05/10/23 17:57	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		05/10/23 17:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/10/23 17:57	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/10/23 17:57	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/10/23 17:57	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/10/23 17:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/10/23 17:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/10/23 17:57	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/10/23 17:57	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/10/23 17:57	103-65-1	
Styrene	ND	ug/L	1.0	1		05/10/23 17:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/10/23 17:57	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/10/23 17:57	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/10/23 17:57	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/10/23 17:57	109-99-9	
Toluene	ND	ug/L	1.0	1		05/10/23 17:57	108-88-3	

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ANALYTICAL RESULTS

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Sample: MEWI-GW-MW2-0-230509	Lab ID: 10652428002	Collected: 05/09/23 07:50	Received: 05/09/23 11:37	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV								
Analytical Method: EPA 8260D								
Pace Analytical Services - Minneapolis								
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/10/23 17:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/10/23 17:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/10/23 17:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/10/23 17:57	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/10/23 17:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/10/23 17:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/10/23 17:57	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		05/10/23 17:57	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/10/23 17:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/10/23 17:57	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/10/23 17:57	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/10/23 17:57	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/10/23 17:57	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/10/23 17:57	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	99	%	75-125	1		05/10/23 17:57	2199-69-1	
4-Bromofluorobenzene (S)	103	%	75-125	1		05/10/23 17:57	460-00-4	
Toluene-d8 (S)	103	%	75-125	1		05/10/23 17:57	2037-26-5	
Chromium, Hexavalent								
Analytical Method: SM 3500-Cr B Modified								
Pace Analytical Services - Minneapolis								
Chromium, Hexavalent	0.070	mg/L	0.010	1		05/09/23 14:03		

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**ANALYTICAL RESULTS**

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Sample: MEWI-GW-MW3-0-2300508 Lab ID: 10652428003 Collected: 05/08/23 17:10 Received: 05/09/23 11:37 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Minneapolis								
Arsenic	ND	ug/L	20.0	1	05/11/23 06:50	05/22/23 12:19	7440-38-2	
Barium	72.2	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:19	7440-39-3	
Cadmium	ND	ug/L	3.0	1	05/11/23 06:50	05/22/23 12:19	7440-43-9	
Chromium	42.4	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:19	7440-47-3	
Lead	ND	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:19	7439-92-1	
Silver	ND	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:19	7440-22-4	
Selenium	ND	ug/L	20.0	1	05/11/23 06:50	05/22/23 12:19	7782-49-2	
7470A Mercury								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Pace Analytical Services - Minneapolis								
Mercury	ND	ug/L	0.20	1	05/11/23 07:21	05/16/23 17:23	7439-97-6	
8270E MSSV PAH by SIM								
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C								
Pace Analytical Services - Minneapolis								
Acenaphthene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:58	83-32-9	
Acenaphthylene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:58	208-96-8	
Anthracene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:58	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:58	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:58	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:58	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:58	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:58	207-08-9	
Chrysene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:58	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:58	53-70-3	
Fluoranthene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:58	206-44-0	
Fluorene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:58	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:58	193-39-5	
Naphthalene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:58	91-20-3	
Phenanthrene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:58	85-01-8	
Pyrene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 15:58	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	69	%	49-125	1	05/10/23 12:58	05/17/23 15:58	321-60-8	
p-Terphenyl-d14 (S)	75	%	42-125	1	05/10/23 12:58	05/17/23 15:58	1718-51-0	
8260D MSV								
Analytical Method: EPA 8260D								
Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		05/10/23 16:39	67-64-1	
Allyl chloride	ND	ug/L	2.5	1		05/10/23 16:39	107-05-1	
Benzene	ND	ug/L	1.0	1		05/10/23 16:39	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/10/23 16:39	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/10/23 16:39	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/10/23 16:39	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/10/23 16:39	75-25-2	
Bromomethane	ND	ug/L	2.5	1		05/10/23 16:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/10/23 16:39	78-93-3	

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ANALYTICAL RESULTS

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Sample: MEWI-GW-MW3-0-2300508 Lab ID: 10652428003 Collected: 05/08/23 17:10 Received: 05/09/23 11:37 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
n-Butylbenzene	ND	ug/L	1.0	1		05/10/23 16:39	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/10/23 16:39	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/10/23 16:39	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/10/23 16:39	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/10/23 16:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/10/23 16:39	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/10/23 16:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/10/23 16:39	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/10/23 16:39	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/10/23 16:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/10/23 16:39	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/10/23 16:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/10/23 16:39	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/10/23 16:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/10/23 16:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/10/23 16:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/10/23 16:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/10/23 16:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/10/23 16:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/10/23 16:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/10/23 16:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/10/23 16:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/10/23 16:39	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		05/10/23 16:39	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/10/23 16:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/10/23 16:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/10/23 16:39	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/10/23 16:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/10/23 16:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/10/23 16:39	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		05/10/23 16:39	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		05/10/23 16:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/10/23 16:39	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/10/23 16:39	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/10/23 16:39	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/10/23 16:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/10/23 16:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/10/23 16:39	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/10/23 16:39	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/10/23 16:39	103-65-1	
Styrene	ND	ug/L	1.0	1		05/10/23 16:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/10/23 16:39	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/10/23 16:39	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/10/23 16:39	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/10/23 16:39	109-99-9	
Toluene	ND	ug/L	1.0	1		05/10/23 16:39	108-88-3	

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**ANALYTICAL RESULTS**

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Sample: MEWI-GW-MW3-0-2300508 **Lab ID: 10652428003** Collected: 05/08/23 17:10 Received: 05/09/23 11:37 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV								
Analytical Method: EPA 8260D								
Pace Analytical Services - Minneapolis								
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/10/23 16:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/10/23 16:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/10/23 16:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/10/23 16:39	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/10/23 16:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/10/23 16:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/10/23 16:39	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		05/10/23 16:39	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/10/23 16:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/10/23 16:39	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/10/23 16:39	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/10/23 16:39	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/10/23 16:39	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/10/23 16:39	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	98	%	75-125	1		05/10/23 16:39	2199-69-1	
4-Bromofluorobenzene (S)	104	%	75-125	1		05/10/23 16:39	460-00-4	
Toluene-d8 (S)	104	%	75-125	1		05/10/23 16:39	2037-26-5	
Chromium, Hexavalent								
Analytical Method: SM 3500-Cr B Modified								
Pace Analytical Services - Minneapolis								
Chromium, Hexavalent	0.039	mg/L	0.010	1		05/09/23 14:04		

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**ANALYTICAL RESULTS**

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Sample: MEWI-GW-MW4-0-230508 **Lab ID: 10652428004** Collected: 05/08/23 16:10 Received: 05/09/23 11:37 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Minneapolis								
Arsenic	ND	ug/L	20.0	1	05/11/23 06:50	05/22/23 12:21	7440-38-2	
Barium	34.8	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:21	7440-39-3	
Cadmium	ND	ug/L	3.0	1	05/11/23 06:50	05/22/23 12:21	7440-43-9	
Chromium	106	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:21	7440-47-3	
Lead	ND	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:21	7439-92-1	
Silver	ND	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:21	7440-22-4	
Selenium	ND	ug/L	20.0	1	05/11/23 06:50	05/22/23 12:21	7782-49-2	
7470A Mercury								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Pace Analytical Services - Minneapolis								
Mercury	ND	ug/L	0.20	1	05/11/23 07:21	05/16/23 17:24	7439-97-6	
8270E MSSV PAH by SIM								
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C								
Pace Analytical Services - Minneapolis								
Acenaphthene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:17	83-32-9	
Acenaphthylene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:17	208-96-8	
Anthracene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:17	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:17	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:17	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:17	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:17	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:17	207-08-9	
Chrysene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:17	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:17	53-70-3	
Fluoranthene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:17	206-44-0	
Fluorene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:17	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:17	193-39-5	
Naphthalene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:17	91-20-3	
Phenanthrene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:17	85-01-8	
Pyrene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:17	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	71	%	49-125	1	05/10/23 12:58	05/17/23 16:17	321-60-8	
p-Terphenyl-d14 (S)	79	%	42-125	1	05/10/23 12:58	05/17/23 16:17	1718-51-0	
8260D MSV								
Analytical Method: EPA 8260D								
Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		05/10/23 16:54	67-64-1	
Allyl chloride	ND	ug/L	2.5	1		05/10/23 16:54	107-05-1	
Benzene	ND	ug/L	1.0	1		05/10/23 16:54	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/10/23 16:54	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/10/23 16:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/10/23 16:54	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/10/23 16:54	75-25-2	
Bromomethane	ND	ug/L	2.5	1		05/10/23 16:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/10/23 16:54	78-93-3	

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ANALYTICAL RESULTS

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Sample: MEWI-GW-MW4-0-230508 Lab ID: 10652428004 Collected: 05/08/23 16:10 Received: 05/09/23 11:37 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
n-Butylbenzene	ND	ug/L	1.0	1		05/10/23 16:54	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/10/23 16:54	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/10/23 16:54	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/10/23 16:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/10/23 16:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/10/23 16:54	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/10/23 16:54	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/10/23 16:54	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/10/23 16:54	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/10/23 16:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/10/23 16:54	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/10/23 16:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/10/23 16:54	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/10/23 16:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/10/23 16:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/10/23 16:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/10/23 16:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/10/23 16:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/10/23 16:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/10/23 16:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/10/23 16:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/10/23 16:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/10/23 16:54	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		05/10/23 16:54	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/10/23 16:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/10/23 16:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/10/23 16:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/10/23 16:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/10/23 16:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/10/23 16:54	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		05/10/23 16:54	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		05/10/23 16:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/10/23 16:54	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/10/23 16:54	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/10/23 16:54	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/10/23 16:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/10/23 16:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/10/23 16:54	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/10/23 16:54	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/10/23 16:54	103-65-1	
Styrene	ND	ug/L	1.0	1		05/10/23 16:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/10/23 16:54	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/10/23 16:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/10/23 16:54	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/10/23 16:54	109-99-9	
Toluene	ND	ug/L	1.0	1		05/10/23 16:54	108-88-3	

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ANALYTICAL RESULTS

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Sample: MEWI-GW-MW4-0-230508 Lab ID: 10652428004 Collected: 05/08/23 16:10 Received: 05/09/23 11:37 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/10/23 16:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/10/23 16:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/10/23 16:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/10/23 16:54	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/10/23 16:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/10/23 16:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/10/23 16:54	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		05/10/23 16:54	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/10/23 16:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/10/23 16:54	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/10/23 16:54	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/10/23 16:54	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/10/23 16:54	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/10/23 16:54	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	98	%	75-125	1		05/10/23 16:54	2199-69-1	
4-Bromofluorobenzene (S)	102	%	75-125	1		05/10/23 16:54	460-00-4	
Toluene-d8 (S)	103	%	75-125	1		05/10/23 16:54	2037-26-5	
Chromium, Hexavalent		Analytical Method: SM 3500-Cr B Modified Pace Analytical Services - Minneapolis						
Chromium, Hexavalent	0.012	mg/L	0.010	1		05/09/23 14:05		

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**ANALYTICAL RESULTS**

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Sample: MEWI-GW-MW5-0-230508 **Lab ID: 10652428005** Collected: 05/08/23 15:10 Received: 05/09/23 11:37 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Minneapolis								
Arsenic	ND	ug/L	20.0	1	05/11/23 06:50	05/22/23 12:28	7440-38-2	
Barium	68.6	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:28	7440-39-3	
Cadmium	ND	ug/L	3.0	1	05/11/23 06:50	05/22/23 12:28	7440-43-9	
Chromium	39.6	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:28	7440-47-3	
Lead	ND	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:28	7439-92-1	
Silver	ND	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:28	7440-22-4	
Selenium	ND	ug/L	20.0	1	05/11/23 06:50	05/22/23 12:28	7782-49-2	
7470A Mercury								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Pace Analytical Services - Minneapolis								
Mercury	ND	ug/L	0.20	1	05/11/23 07:21	05/16/23 17:29	7439-97-6	
8270E MSSV PAH by SIM								
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C								
Pace Analytical Services - Minneapolis								
Acenaphthene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:37	83-32-9	
Acenaphthylene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:37	208-96-8	
Anthracene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:37	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:37	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:37	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:37	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:37	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:37	207-08-9	
Chrysene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:37	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:37	53-70-3	
Fluoranthene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:37	206-44-0	
Fluorene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:37	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:37	193-39-5	
Naphthalene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:37	91-20-3	
Phenanthrene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:37	85-01-8	
Pyrene	ND	ug/L	0.038	1	05/10/23 12:58	05/17/23 16:37	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	63	%	49-125	1	05/10/23 12:58	05/17/23 16:37	321-60-8	
p-Terphenyl-d14 (S)	63	%	42-125	1	05/10/23 12:58	05/17/23 16:37	1718-51-0	
8260D MSV								
Analytical Method: EPA 8260D								
Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		05/10/23 18:12	67-64-1	M1
Allyl chloride	ND	ug/L	2.5	1		05/10/23 18:12	107-05-1	
Benzene	ND	ug/L	1.0	1		05/10/23 18:12	71-43-2	M1
Bromobenzene	ND	ug/L	1.0	1		05/10/23 18:12	108-86-1	M1
Bromochloromethane	ND	ug/L	1.0	1		05/10/23 18:12	74-97-5	M1
Bromodichloromethane	ND	ug/L	1.0	1		05/10/23 18:12	75-27-4	M1
Bromoform	ND	ug/L	1.0	1		05/10/23 18:12	75-25-2	M1
Bromomethane	ND	ug/L	2.5	1		05/10/23 18:12	74-83-9	R1
2-Butanone (MEK)	ND	ug/L	10.0	1		05/10/23 18:12	78-93-3	M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Sample: MEWI-GW-MW5-0-230508	Lab ID: 10652428005	Collected: 05/08/23 15:10	Received: 05/09/23 11:37	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
n-Butylbenzene	ND	ug/L	1.0	1		05/10/23 18:12	104-51-8	M1
sec-Butylbenzene	ND	ug/L	1.0	1		05/10/23 18:12	135-98-8	M1
tert-Butylbenzene	ND	ug/L	1.0	1		05/10/23 18:12	98-06-6	M1
Carbon tetrachloride	ND	ug/L	1.0	1		05/10/23 18:12	56-23-5	M1
Chlorobenzene	ND	ug/L	1.0	1		05/10/23 18:12	108-90-7	M1
Chloroethane	ND	ug/L	1.0	1		05/10/23 18:12	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/10/23 18:12	67-66-3	M1
Chloromethane	ND	ug/L	1.0	1		05/10/23 18:12	74-87-3	M1,R1
2-Chlorotoluene	ND	ug/L	1.0	1		05/10/23 18:12	95-49-8	M1
4-Chlorotoluene	ND	ug/L	1.0	1		05/10/23 18:12	106-43-4	M1
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/10/23 18:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/10/23 18:12	124-48-1	M1
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/10/23 18:12	106-93-4	M1
Dibromomethane	ND	ug/L	1.0	1		05/10/23 18:12	74-95-3	M1
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/10/23 18:12	95-50-1	M1
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/10/23 18:12	541-73-1	M1
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/10/23 18:12	106-46-7	M1
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/10/23 18:12	75-71-8	M1,R1
1,1-Dichloroethane	ND	ug/L	1.0	1		05/10/23 18:12	75-34-3	M1
1,2-Dichloroethane	ND	ug/L	1.0	1		05/10/23 18:12	107-06-2	M1
1,1-Dichloroethene	ND	ug/L	1.0	1		05/10/23 18:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/10/23 18:12	156-59-2	M1
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/10/23 18:12	156-60-5	M1
Dichlorofluoromethane	ND	ug/L	1.0	1		05/10/23 18:12	75-43-4	M1
1,2-Dichloropropane	ND	ug/L	1.0	1		05/10/23 18:12	78-87-5	M1
1,3-Dichloropropane	ND	ug/L	1.0	1		05/10/23 18:12	142-28-9	M1
2,2-Dichloropropane	ND	ug/L	1.0	1		05/10/23 18:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/10/23 18:12	563-58-6	M1
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/10/23 18:12	10061-01-5	M1
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/10/23 18:12	10061-02-6	M1
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		05/10/23 18:12	60-29-7	M1
Ethylbenzene	ND	ug/L	1.0	1		05/10/23 18:12	100-41-4	M1
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/10/23 18:12	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/10/23 18:12	98-82-8	M1
p-Isopropyltoluene	ND	ug/L	1.0	1		05/10/23 18:12	99-87-6	M1
Methylene Chloride	ND	ug/L	1.0	1		05/10/23 18:12	75-09-2	M1
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/10/23 18:12	108-10-1	M1
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/10/23 18:12	1634-04-4	M1
Naphthalene	ND	ug/L	1.0	1		05/10/23 18:12	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/10/23 18:12	103-65-1	M1
Styrene	ND	ug/L	1.0	1		05/10/23 18:12	100-42-5	M1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/10/23 18:12	630-20-6	M1
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/10/23 18:12	79-34-5	M1
Tetrachloroethene	ND	ug/L	1.0	1		05/10/23 18:12	127-18-4	M1
Tetrahydrofuran	ND	ug/L	10.0	1		05/10/23 18:12	109-99-9	M1
Toluene	ND	ug/L	1.0	1		05/10/23 18:12	108-88-3	M1

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ANALYTICAL RESULTS

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Sample: MEWI-GW-MW5-0-230508	Lab ID: 10652428005	Collected: 05/08/23 15:10	Received: 05/09/23 11:37	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV								
Analytical Method: EPA 8260D								
Pace Analytical Services - Minneapolis								
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/10/23 18:12	87-61-6	M1
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/10/23 18:12	120-82-1	M1
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/10/23 18:12	71-55-6	M1
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/10/23 18:12	79-00-5	M1
Trichloroethene	ND	ug/L	1.0	1		05/10/23 18:12	79-01-6	M1
Trichlorofluoromethane	ND	ug/L	1.0	1		05/10/23 18:12	75-69-4	M1,R1
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/10/23 18:12	96-18-4	M1
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		05/10/23 18:12	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/10/23 18:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/10/23 18:12	108-67-8	M1
Vinyl chloride	ND	ug/L	1.0	1		05/10/23 18:12	75-01-4	M1,R1
Xylene (Total)	ND	ug/L	3.0	1		05/10/23 18:12	1330-20-7	MS
m&p-Xylene	ND	ug/L	2.0	1		05/10/23 18:12	179601-23-1	M1
o-Xylene	ND	ug/L	1.0	1		05/10/23 18:12	95-47-6	M1
Surrogates								
1,2-Dichlorobenzene-d4 (S)	100	%	75-125	1		05/10/23 18:12	2199-69-1	
4-Bromofluorobenzene (S)	103	%	75-125	1		05/10/23 18:12	460-00-4	
Toluene-d8 (S)	103	%	75-125	1		05/10/23 18:12	2037-26-5	
Chromium, Hexavalent								
Analytical Method: SM 3500-Cr B Modified								
Pace Analytical Services - Minneapolis								
Chromium, Hexavalent	ND	mg/L	0.010	1		05/09/23 14:05		

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ANALYTICAL RESULTS

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Sample: MEWI-GW-MW6-0-230508 Lab ID: 10652428006 Collected: 05/08/23 14:25 Received: 05/09/23 11:37 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Minneapolis								
Arsenic	ND	ug/L	20.0	1	05/11/23 06:50	05/22/23 12:29	7440-38-2	
Barium	78.1	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:29	7440-39-3	
Cadmium	ND	ug/L	3.0	1	05/11/23 06:50	05/22/23 12:29	7440-43-9	
Chromium	21.8	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:29	7440-47-3	
Lead	ND	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:29	7439-92-1	
Silver	ND	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:29	7440-22-4	
Selenium	ND	ug/L	20.0	1	05/11/23 06:50	05/22/23 12:29	7782-49-2	
7470A Mercury								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Pace Analytical Services - Minneapolis								
Mercury	ND	ug/L	0.20	1	05/11/23 07:21	05/16/23 17:30	7439-97-6	
8270E MSSV PAH by SIM								
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C								
Pace Analytical Services - Minneapolis								
Acenaphthene	ND	ug/L	0.041	1	05/10/23 12:58	05/17/23 16:56	83-32-9	
Acenaphthylene	ND	ug/L	0.041	1	05/10/23 12:58	05/17/23 16:56	208-96-8	
Anthracene	ND	ug/L	0.041	1	05/10/23 12:58	05/17/23 16:56	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.041	1	05/10/23 12:58	05/17/23 16:56	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.041	1	05/10/23 12:58	05/17/23 16:56	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.041	1	05/10/23 12:58	05/17/23 16:56	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.041	1	05/10/23 12:58	05/17/23 16:56	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.041	1	05/10/23 12:58	05/17/23 16:56	207-08-9	
Chrysene	ND	ug/L	0.041	1	05/10/23 12:58	05/17/23 16:56	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.041	1	05/10/23 12:58	05/17/23 16:56	53-70-3	
Fluoranthene	ND	ug/L	0.041	1	05/10/23 12:58	05/17/23 16:56	206-44-0	
Fluorene	ND	ug/L	0.041	1	05/10/23 12:58	05/17/23 16:56	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.041	1	05/10/23 12:58	05/17/23 16:56	193-39-5	
Naphthalene	ND	ug/L	0.041	1	05/10/23 12:58	05/17/23 16:56	91-20-3	
Phenanthrene	ND	ug/L	0.041	1	05/10/23 12:58	05/17/23 16:56	85-01-8	
Pyrene	ND	ug/L	0.041	1	05/10/23 12:58	05/17/23 16:56	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	68	%	49-125	1	05/10/23 12:58	05/17/23 16:56	321-60-8	
p-Terphenyl-d14 (S)	76	%	42-125	1	05/10/23 12:58	05/17/23 16:56	1718-51-0	
8260D MSV								
Analytical Method: EPA 8260D								
Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		05/10/23 17:10	67-64-1	
Allyl chloride	ND	ug/L	2.5	1		05/10/23 17:10	107-05-1	
Benzene	ND	ug/L	1.0	1		05/10/23 17:10	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/10/23 17:10	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/10/23 17:10	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/10/23 17:10	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/10/23 17:10	75-25-2	
Bromomethane	ND	ug/L	2.5	1		05/10/23 17:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/10/23 17:10	78-93-3	

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ANALYTICAL RESULTS

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Sample: MEWI-GW-MW6-0-230508 Lab ID: 10652428006 Collected: 05/08/23 14:25 Received: 05/09/23 11:37 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
n-Butylbenzene	ND	ug/L	1.0	1		05/10/23 17:10	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/10/23 17:10	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/10/23 17:10	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/10/23 17:10	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/10/23 17:10	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/10/23 17:10	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/10/23 17:10	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/10/23 17:10	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/10/23 17:10	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/10/23 17:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/10/23 17:10	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/10/23 17:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/10/23 17:10	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/10/23 17:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/10/23 17:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/10/23 17:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/10/23 17:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/10/23 17:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/10/23 17:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/10/23 17:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/10/23 17:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/10/23 17:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/10/23 17:10	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		05/10/23 17:10	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/10/23 17:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/10/23 17:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/10/23 17:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/10/23 17:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/10/23 17:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/10/23 17:10	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		05/10/23 17:10	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		05/10/23 17:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/10/23 17:10	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/10/23 17:10	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/10/23 17:10	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/10/23 17:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/10/23 17:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/10/23 17:10	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/10/23 17:10	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/10/23 17:10	103-65-1	
Styrene	ND	ug/L	1.0	1		05/10/23 17:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/10/23 17:10	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/10/23 17:10	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/10/23 17:10	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/10/23 17:10	109-99-9	
Toluene	ND	ug/L	1.0	1		05/10/23 17:10	108-88-3	

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ANALYTICAL RESULTS

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Sample: MEWI-GW-MW6-0-230508 **Lab ID: 10652428006** Collected: 05/08/23 14:25 Received: 05/09/23 11:37 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/10/23 17:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/10/23 17:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/10/23 17:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/10/23 17:10	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/10/23 17:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/10/23 17:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/10/23 17:10	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		05/10/23 17:10	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/10/23 17:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/10/23 17:10	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/10/23 17:10	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/10/23 17:10	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/10/23 17:10	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/10/23 17:10	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	102	%	75-125	1		05/10/23 17:10	2199-69-1	
4-Bromofluorobenzene (S)	103	%	75-125	1		05/10/23 17:10	460-00-4	
Toluene-d8 (S)	102	%	75-125	1		05/10/23 17:10	2037-26-5	
Chromium, Hexavalent		Analytical Method: SM 3500-Cr B Modified Pace Analytical Services - Minneapolis						
Chromium, Hexavalent	ND	mg/L	0.010	1		05/09/23 14:06		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Sample: MEWI-GW-MW7-0-230508 Lab ID: 10652428007 Collected: 05/08/23 13:30 Received: 05/09/23 11:37 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Minneapolis						
Arsenic	ND	ug/L	20.0	1	06/14/23 04:01	06/14/23 11:45	7440-38-2	
Barium	29.0	ug/L	10.0	1	06/14/23 04:01	06/14/23 11:45	7440-39-3	
Cadmium	ND	ug/L	3.0	1	06/14/23 04:01	06/14/23 11:45	7440-43-9	
Chromium	12.0	ug/L	10.0	1	06/14/23 04:01	06/14/23 11:45	7440-47-3	
Lead	ND	ug/L	10.0	1	06/14/23 04:01	06/14/23 11:45	7439-92-1	
Selenium	ND	ug/L	20.0	1	06/14/23 04:01	06/14/23 11:45	7782-49-2	
Silver	ND	ug/L	10.0	1	06/14/23 04:01	06/14/23 11:45	7440-22-4	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
Acetone	ND	ug/L	10.0	1		05/10/23 17:26	67-64-1	
Allyl chloride	ND	ug/L	2.5	1		05/10/23 17:26	107-05-1	
Benzene	ND	ug/L	1.0	1		05/10/23 17:26	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/10/23 17:26	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/10/23 17:26	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/10/23 17:26	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/10/23 17:26	75-25-2	
Bromomethane	ND	ug/L	2.5	1		05/10/23 17:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/10/23 17:26	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/10/23 17:26	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/10/23 17:26	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/10/23 17:26	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/10/23 17:26	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/10/23 17:26	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/10/23 17:26	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/10/23 17:26	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/10/23 17:26	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/10/23 17:26	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/10/23 17:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/10/23 17:26	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/10/23 17:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/10/23 17:26	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/10/23 17:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/10/23 17:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/10/23 17:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/10/23 17:26	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/10/23 17:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/10/23 17:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/10/23 17:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/10/23 17:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/10/23 17:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/10/23 17:26	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		05/10/23 17:26	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/10/23 17:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/10/23 17:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/10/23 17:26	594-20-7	

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ANALYTICAL RESULTS

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Sample: MEWI-GW-MW7-0-230508	Lab ID: 10652428007	Collected: 05/08/23 13:30	Received: 05/09/23 11:37	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV								
Analytical Method: EPA 8260D								
Pace Analytical Services - Minneapolis								
1,1-Dichloropropene	ND	ug/L	1.0	1		05/10/23 17:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/10/23 17:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/10/23 17:26	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		05/10/23 17:26	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		05/10/23 17:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/10/23 17:26	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/10/23 17:26	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/10/23 17:26	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/10/23 17:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/10/23 17:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/10/23 17:26	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/10/23 17:26	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/10/23 17:26	103-65-1	
Styrene	ND	ug/L	1.0	1		05/10/23 17:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/10/23 17:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/10/23 17:26	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/10/23 17:26	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/10/23 17:26	109-99-9	
Toluene	ND	ug/L	1.0	1		05/10/23 17:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/10/23 17:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/10/23 17:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/10/23 17:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/10/23 17:26	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/10/23 17:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/10/23 17:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/10/23 17:26	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		05/10/23 17:26	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/10/23 17:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/10/23 17:26	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/10/23 17:26	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/10/23 17:26	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/10/23 17:26	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/10/23 17:26	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	100	%	75-125	1		05/10/23 17:26	2199-69-1	
4-Bromofluorobenzene (S)	104	%	75-125	1		05/10/23 17:26	460-00-4	
Toluene-d8 (S)	103	%	75-125	1		05/10/23 17:26	2037-26-5	
Chromium, Hexavalent								
Analytical Method: SM 3500-Cr B Modified								
Pace Analytical Services - Minneapolis								
Chromium, Hexavalent	0.026	mg/L	0.010	1		05/09/23 14:07		H1

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ANALYTICAL RESULTS

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Sample: Trip Blank	Lab ID: 10652428008	Collected:	Received: 05/09/23 11:37	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D						
		Pace Analytical Services - Minneapolis						
Acetone	ND	ug/L	10.0	1		05/10/23 14:02	67-64-1	
Allyl chloride	ND	ug/L	2.5	1		05/10/23 14:02	107-05-1	
Benzene	ND	ug/L	1.0	1		05/10/23 14:02	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/10/23 14:02	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/10/23 14:02	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/10/23 14:02	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/10/23 14:02	75-25-2	
Bromomethane	ND	ug/L	2.5	1		05/10/23 14:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/10/23 14:02	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		05/10/23 14:02	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/10/23 14:02	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/10/23 14:02	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/10/23 14:02	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/10/23 14:02	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/10/23 14:02	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/10/23 14:02	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/10/23 14:02	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/10/23 14:02	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/10/23 14:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/10/23 14:02	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/10/23 14:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/10/23 14:02	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/10/23 14:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/10/23 14:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/10/23 14:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/10/23 14:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/10/23 14:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/10/23 14:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/10/23 14:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/10/23 14:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/10/23 14:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/10/23 14:02	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		05/10/23 14:02	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/10/23 14:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/10/23 14:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/10/23 14:02	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/10/23 14:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/10/23 14:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/10/23 14:02	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		05/10/23 14:02	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		05/10/23 14:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/10/23 14:02	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/10/23 14:02	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/10/23 14:02	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/10/23 14:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/10/23 14:02	108-10-1	

REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS**

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Sample: Trip Blank		Lab ID: 10652428008	Collected:	Received: 05/09/23 11:37	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D						
		Pace Analytical Services - Minneapolis						
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/10/23 14:02	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/10/23 14:02	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/10/23 14:02	103-65-1	
Styrene	ND	ug/L	1.0	1		05/10/23 14:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/10/23 14:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/10/23 14:02	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/10/23 14:02	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/10/23 14:02	109-99-9	
Toluene	ND	ug/L	1.0	1		05/10/23 14:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/10/23 14:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/10/23 14:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/10/23 14:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/10/23 14:02	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/10/23 14:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/10/23 14:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/10/23 14:02	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		05/10/23 14:02	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/10/23 14:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/10/23 14:02	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/10/23 14:02	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/10/23 14:02	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/10/23 14:02	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/10/23 14:02	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	102	%.	75-125	1		05/10/23 14:02	2199-69-1	
4-Bromofluorobenzene (S)	104	%.	75-125	1		05/10/23 14:02	460-00-4	
Toluene-d8 (S)	103	%.	75-125	1		05/10/23 14:02	2037-26-5	

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**ANALYTICAL RESULTS**

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Sample: MEWI-GW-DP-0-230508	Lab ID: 10652428009	Collected: 05/08/23 00:00	Received: 05/09/23 11:37	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Minneapolis								
Arsenic	ND	ug/L	20.0	1	05/11/23 06:50	05/22/23 12:31	7440-38-2	
Barium	77.4	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:31	7440-39-3	
Cadmium	ND	ug/L	3.0	1	05/11/23 06:50	05/22/23 12:31	7440-43-9	
Chromium	35.4	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:31	7440-47-3	
Lead	ND	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:31	7439-92-1	
Selenium	ND	ug/L	20.0	1	05/11/23 06:50	05/22/23 12:31	7782-49-2	
Silver	ND	ug/L	10.0	1	05/11/23 06:50	05/22/23 12:31	7440-22-4	
7470A Mercury								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Pace Analytical Services - Minneapolis								
Mercury	ND	ug/L	0.20	1	05/11/23 07:21	05/16/23 17:32	7439-97-6	
8270E MSSV PAH by SIM								
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C								
Pace Analytical Services - Minneapolis								
Acenaphthene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 17:16	83-32-9	
Acenaphthylene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 17:16	208-96-8	
Anthracene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 17:16	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 17:16	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 17:16	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 17:16	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 17:16	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 17:16	207-08-9	
Chrysene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 17:16	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 17:16	53-70-3	
Fluoranthene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 17:16	206-44-0	
Fluorene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 17:16	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 17:16	193-39-5	
Naphthalene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 17:16	91-20-3	
Phenanthrene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 17:16	85-01-8	
Pyrene	ND	ug/L	0.040	1	05/10/23 12:58	05/17/23 17:16	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	71	%	49-125	1	05/10/23 12:58	05/17/23 17:16	321-60-8	
p-Terphenyl-d14 (S)	79	%	42-125	1	05/10/23 12:58	05/17/23 17:16	1718-51-0	
8260D MSV								
Analytical Method: EPA 8260D								
Pace Analytical Services - Minneapolis								
Acetone	ND	ug/L	10.0	1		05/10/23 17:41	67-64-1	
Allyl chloride	ND	ug/L	2.5	1		05/10/23 17:41	107-05-1	
Benzene	ND	ug/L	1.0	1		05/10/23 17:41	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/10/23 17:41	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/10/23 17:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/10/23 17:41	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/10/23 17:41	75-25-2	
Bromomethane	ND	ug/L	2.5	1		05/10/23 17:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/10/23 17:41	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Sample: MEWI-GW-DP-0-230508	Lab ID: 10652428009	Collected: 05/08/23 00:00	Received: 05/09/23 11:37	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV								
Analytical Method: EPA 8260D								
Pace Analytical Services - Minneapolis								
n-Butylbenzene	ND	ug/L	1.0	1		05/10/23 17:41	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		05/10/23 17:41	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		05/10/23 17:41	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		05/10/23 17:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/10/23 17:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/10/23 17:41	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/10/23 17:41	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/10/23 17:41	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/10/23 17:41	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/10/23 17:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		05/10/23 17:41	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/10/23 17:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/10/23 17:41	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/10/23 17:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/10/23 17:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/10/23 17:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/10/23 17:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/10/23 17:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/10/23 17:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/10/23 17:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/10/23 17:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/10/23 17:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/10/23 17:41	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		05/10/23 17:41	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/10/23 17:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/10/23 17:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/10/23 17:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/10/23 17:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/10/23 17:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/10/23 17:41	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		05/10/23 17:41	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		05/10/23 17:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/10/23 17:41	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/10/23 17:41	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/10/23 17:41	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		05/10/23 17:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/10/23 17:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/10/23 17:41	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/10/23 17:41	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		05/10/23 17:41	103-65-1	
Styrene	ND	ug/L	1.0	1		05/10/23 17:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/10/23 17:41	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/10/23 17:41	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/10/23 17:41	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		05/10/23 17:41	109-99-9	
Toluene	ND	ug/L	1.0	1		05/10/23 17:41	108-88-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Sample: MEWI-GW-DP-0-230508	Lab ID: 10652428009	Collected: 05/08/23 00:00	Received: 05/09/23 11:37	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV								
Analytical Method: EPA 8260D								
Pace Analytical Services - Minneapolis								
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/10/23 17:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/10/23 17:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/10/23 17:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/10/23 17:41	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/10/23 17:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/10/23 17:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		05/10/23 17:41	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		05/10/23 17:41	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/10/23 17:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/10/23 17:41	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		05/10/23 17:41	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/10/23 17:41	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/10/23 17:41	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/10/23 17:41	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	103	%	75-125	1		05/10/23 17:41	2199-69-1	
4-Bromofluorobenzene (S)	104	%	75-125	1		05/10/23 17:41	460-00-4	
Toluene-d8 (S)	103	%	75-125	1		05/10/23 17:41	2037-26-5	
Chromium, Hexavalent								
Analytical Method: SM 3500-Cr B Modified								
Pace Analytical Services - Minneapolis								
Chromium, Hexavalent	0.066	mg/L	0.010	1		05/09/23 14:08		H3

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

QC Batch:	880349	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470A Mercury Water
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples:	10652428001, 10652428002, 10652428003, 10652428004, 10652428005, 10652428006, 10652428009		

METHOD BLANK: 4640023 Matrix: Water
 Associated Lab Samples: 10652428001, 10652428002, 10652428003, 10652428004, 10652428005, 10652428006, 10652428009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/16/23 17:14	

LABORATORY CONTROL SAMPLE: 4640024

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.5	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4640025 4640026

Parameter	Units	10652428002		4640026		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Mercury	ug/L	ND	5	5	4.6	4.7	91	94	80-120	3

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QUALITY CONTROL DATA

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

QC Batch:	887145	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 MET
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10652428001, 10652428002, 10652428003, 10652428004, 10652428005, 10652428006, 10652428009

METHOD BLANK: 4674883 Matrix: Water

Associated Lab Samples: 10652428001, 10652428002, 10652428003, 10652428004, 10652428005, 10652428006, 10652428009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	20.0	05/22/23 12:06	
Barium	ug/L	ND	10.0	05/22/23 12:06	
Cadmium	ug/L	ND	3.0	05/22/23 12:06	
Chromium	ug/L	ND	10.0	05/22/23 12:06	
Lead	ug/L	ND	10.0	05/22/23 12:06	
Selenium	ug/L	ND	20.0	05/22/23 12:06	
Silver	ug/L	ND	10.0	05/22/23 12:06	

LABORATORY CONTROL SAMPLE: 4674884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	954	95	85-115	
Barium	ug/L	1000	968	97	85-115	
Cadmium	ug/L	1000	986	99	85-115	
Chromium	ug/L	1000	958	96	85-115	
Lead	ug/L	1000	972	97	85-115	
Selenium	ug/L	1000	995	100	85-115	
Silver	ug/L	500	475	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4674885 4674886

Parameter	Units	10652428001		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Arsenic	ug/L	ND	1000	1000	1000	953	958	95	96	70-130	0			
Barium	ug/L	36.7	1000	1000	1000	1000	994	96	96	70-130	1			
Cadmium	ug/L	ND	1000	1000	1000	973	965	97	96	70-130	1			
Chromium	ug/L	39.7	1000	1000	1000	992	988	95	95	70-130	0			
Lead	ug/L	ND	1000	1000	1000	959	956	96	96	70-130	0			
Selenium	ug/L	ND	1000	1000	1000	979	991	98	99	70-130	1			
Silver	ug/L	ND	500	500	500	477	473	95	95	70-130	1			

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QUALITY CONTROL DATA

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

QC Batch: 887146

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 MET

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10652428007

METHOD BLANK: 4674887

Matrix: Water

Associated Lab Samples: 10652428007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	20.0	06/14/23 11:41	
Barium	ug/L	ND	10.0	06/14/23 11:41	
Cadmium	ug/L	ND	3.0	06/14/23 11:41	
Chromium	ug/L	ND	10.0	06/14/23 11:41	
Lead	ug/L	ND	10.0	06/14/23 11:41	
Selenium	ug/L	ND	20.0	06/14/23 11:41	
Silver	ug/L	ND	10.0	06/14/23 11:41	

LABORATORY CONTROL SAMPLE: 4674888

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	1020	102	85-115	
Barium	ug/L	1000	1010	101	85-115	
Cadmium	ug/L	1000	1020	102	85-115	
Chromium	ug/L	1000	992	99	85-115	
Lead	ug/L	1000	1010	101	85-115	
Selenium	ug/L	1000	1090	109	85-115	
Silver	ug/L	500	499	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4674889 4674890

Parameter	Units	10652428007		MS		MSD		% Rec		RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec		
Arsenic	ug/L	ND	1000	1000	1010	1010	101	101	70-130	0	
Barium	ug/L	29.0	1000	1000	1050	1040	102	101	70-130	1	
Cadmium	ug/L	ND	1000	1000	1020	1010	102	101	70-130	1	
Chromium	ug/L	12.0	1000	1000	1010	1010	100	100	70-130	1	
Lead	ug/L	ND	1000	1000	1010	1000	101	100	70-130	1	
Selenium	ug/L	ND	1000	1000	1080	1080	108	108	70-130	0	
Silver	ug/L	ND	500	500	509	506	102	101	70-130	1	

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QUALITY CONTROL DATA

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

QC Batch: 880411 Analysis Method: EPA 8260D
 QC Batch Method: EPA 8260D Analysis Description: 8260D MSV
 Laboratory: Pace Analytical Services - Minneapolis
 Associated Lab Samples: 10652428001, 10652428002, 10652428003, 10652428004, 10652428005, 10652428006, 10652428007, 10652428008, 10652428009

METHOD BLANK: 4640257

Matrix: Water

Associated Lab Samples: 10652428001, 10652428002, 10652428003, 10652428004, 10652428005, 10652428006, 10652428007, 10652428008, 10652428009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/10/23 13:06	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/10/23 13:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/10/23 13:06	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/10/23 13:06	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	05/10/23 13:06	
1,1-Dichloroethane	ug/L	ND	1.0	05/10/23 13:06	
1,1-Dichloroethene	ug/L	ND	1.0	05/10/23 13:06	
1,1-Dichloropropene	ug/L	ND	1.0	05/10/23 13:06	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/10/23 13:06	
1,2,3-Trichloropropane	ug/L	ND	2.5	05/10/23 13:06	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/10/23 13:06	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/10/23 13:06	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	05/10/23 13:06	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/10/23 13:06	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/10/23 13:06	
1,2-Dichloroethane	ug/L	ND	1.0	05/10/23 13:06	
1,2-Dichloropropane	ug/L	ND	1.0	05/10/23 13:06	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/10/23 13:06	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/10/23 13:06	
1,3-Dichloropropane	ug/L	ND	1.0	05/10/23 13:06	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/10/23 13:06	
2,2-Dichloropropane	ug/L	ND	1.0	05/10/23 13:06	
2-Butanone (MEK)	ug/L	ND	10.0	05/10/23 13:06	
2-Chlorotoluene	ug/L	ND	1.0	05/10/23 13:06	
4-Chlorotoluene	ug/L	ND	1.0	05/10/23 13:06	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	05/10/23 13:06	
Acetone	ug/L	ND	10.0	05/10/23 13:06	
Allyl chloride	ug/L	ND	2.5	05/10/23 13:06	
Benzene	ug/L	ND	1.0	05/10/23 13:06	
Bromobenzene	ug/L	ND	1.0	05/10/23 13:06	
Bromochloromethane	ug/L	ND	1.0	05/10/23 13:06	
Bromodichloromethane	ug/L	ND	1.0	05/10/23 13:06	
Bromoform	ug/L	ND	1.0	05/10/23 13:06	
Bromomethane	ug/L	ND	2.5	05/10/23 13:06	
Carbon tetrachloride	ug/L	ND	1.0	05/10/23 13:06	
Chlorobenzene	ug/L	ND	1.0	05/10/23 13:06	
Chloroethane	ug/L	ND	1.0	05/10/23 13:06	
Chloroform	ug/L	ND	1.0	05/10/23 13:06	
Chloromethane	ug/L	ND	1.0	05/10/23 13:06	

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QUALITY CONTROL DATA

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

METHOD BLANK: 4640257

Matrix: Water

Associated Lab Samples: 10652428001, 10652428002, 10652428003, 10652428004, 10652428005, 10652428006, 10652428007, 10652428008, 10652428009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/10/23 13:06	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/10/23 13:06	
Dibromochloromethane	ug/L	ND	1.0	05/10/23 13:06	
Dibromomethane	ug/L	ND	1.0	05/10/23 13:06	
Dichlorodifluoromethane	ug/L	ND	1.0	05/10/23 13:06	
Dichlorofluoromethane	ug/L	ND	1.0	05/10/23 13:06	
Diethyl ether (Ethyl ether)	ug/L	ND	2.5	05/10/23 13:06	
Ethylbenzene	ug/L	ND	1.0	05/10/23 13:06	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/10/23 13:06	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/10/23 13:06	
m&p-Xylene	ug/L	ND	2.0	05/10/23 13:06	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/10/23 13:06	
Methylene Chloride	ug/L	ND	1.0	05/10/23 13:06	
n-Butylbenzene	ug/L	ND	1.0	05/10/23 13:06	
n-Propylbenzene	ug/L	ND	1.0	05/10/23 13:06	
Naphthalene	ug/L	ND	1.0	05/10/23 13:06	
o-Xylene	ug/L	ND	1.0	05/10/23 13:06	
p-Isopropyltoluene	ug/L	ND	1.0	05/10/23 13:06	
sec-Butylbenzene	ug/L	ND	1.0	05/10/23 13:06	
Styrene	ug/L	ND	1.0	05/10/23 13:06	
tert-Butylbenzene	ug/L	ND	1.0	05/10/23 13:06	
Tetrachloroethene	ug/L	ND	1.0	05/10/23 13:06	
Tetrahydrofuran	ug/L	ND	10.0	05/10/23 13:06	
Toluene	ug/L	ND	1.0	05/10/23 13:06	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/10/23 13:06	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/10/23 13:06	
Trichloroethene	ug/L	ND	1.0	05/10/23 13:06	
Trichlorofluoromethane	ug/L	ND	1.0	05/10/23 13:06	
Vinyl chloride	ug/L	ND	1.0	05/10/23 13:06	
Xylene (Total)	ug/L	ND	3.0	05/10/23 13:06	
1,2-Dichlorobenzene-d4 (S)	%	101	75-125	05/10/23 13:06	
4-Bromofluorobenzene (S)	%	103	75-125	05/10/23 13:06	
Toluene-d8 (S)	%	103	75-125	05/10/23 13:06	

LABORATORY CONTROL SAMPLE: 4640258

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.3	96	75-125	
1,1,1-Trichloroethane	ug/L	20	21.1	105	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	17.6	88	71-125	
1,1,2-Trichloroethane	ug/L	20	18.5	93	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	20.9	105	69-125	
1,1-Dichloroethane	ug/L	20	19.5	97	75-125	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

LABORATORY CONTROL SAMPLE: 4640258

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	20	19.9	100	69-125	
1,1-Dichloropropene	ug/L	20	21.4	107	74-125	
1,2,3-Trichlorobenzene	ug/L	20	19.9	100	70-131	
1,2,3-Trichloropropane	ug/L	20	18.6	93	73-125	
1,2,4-Trichlorobenzene	ug/L	20	19.6	98	75-125	
1,2,4-Trimethylbenzene	ug/L	20	21.2	106	75-125	
1,2-Dibromo-3-chloropropane	ug/L	20	18.3	91	68-129	
1,2-Dibromoethane (EDB)	ug/L	20	18.8	94	75-125	
1,2-Dichlorobenzene	ug/L	20	18.6	93	75-125	
1,2-Dichloroethane	ug/L	20	20.1	100	75-125	
1,2-Dichloropropane	ug/L	20	19.8	99	75-125	
1,3,5-Trimethylbenzene	ug/L	20	20.9	104	75-125	
1,3-Dichlorobenzene	ug/L	20	19.6	98	75-125	
1,3-Dichloropropane	ug/L	20	19.0	95	75-125	
1,4-Dichlorobenzene	ug/L	20	19.5	97	75-125	
2,2-Dichloropropane	ug/L	20	21.8	109	65-125	
2-Butanone (MEK)	ug/L	100	97.0	97	61-131	
2-Chlorotoluene	ug/L	20	20.1	100	75-125	
4-Chlorotoluene	ug/L	20	20.1	100	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	97.8	98	62-142	
Acetone	ug/L	100	96.3	96	57-137	
Allyl chloride	ug/L	20	18.8	94	73-125	
Benzene	ug/L	20	19.4	97	75-125	
Bromobenzene	ug/L	20	18.6	93	75-125	
Bromochloromethane	ug/L	20	18.2	91	75-125	
Bromodichloromethane	ug/L	20	20.0	100	75-125	
Bromoform	ug/L	20	20.2	101	75-134	
Bromomethane	ug/L	20	9.3	47	32-150	
Carbon tetrachloride	ug/L	20	22.0	110	73-126	
Chlorobenzene	ug/L	20	18.5	93	75-125	
Chloroethane	ug/L	20	19.2	96	70-125	
Chloroform	ug/L	20	19.7	99	75-125	
Chloromethane	ug/L	20	15.8	79	65-125	
cis-1,2-Dichloroethene	ug/L	20	19.3	96	75-125	
cis-1,3-Dichloropropene	ug/L	20	19.7	98	75-125	
Dibromochloromethane	ug/L	20	19.8	99	75-125	
Dibromomethane	ug/L	20	18.8	94	75-125	
Dichlorodifluoromethane	ug/L	20	19.9	100	65-135	
Dichlorofluoromethane	ug/L	20	19.6	98	75-125	
Diethyl ether (Ethyl ether)	ug/L	20	20.5	103	75-125	
Ethylbenzene	ug/L	20	20.2	101	75-125	
Hexachloro-1,3-butadiene	ug/L	20	21.6	108	63-128	
Isopropylbenzene (Cumene)	ug/L	20	21.6	108	75-125	
m&p-Xylene	ug/L	40	40.9	102	75-125	
Methyl-tert-butyl ether	ug/L	20	20.4	102	75-125	
Methylene Chloride	ug/L	20	18.7	93	72-125	
n-Butylbenzene	ug/L	20	20.3	101	68-125	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

LABORATORY CONTROL SAMPLE: 4640258

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Propylbenzene	ug/L	20	20.8	104	74-125	
Naphthalene	ug/L	20	19.5	98	67-140	
o-Xylene	ug/L	20	20.6	103	75-125	
p-Isopropyltoluene	ug/L	20	21.5	107	75-126	
sec-Butylbenzene	ug/L	20	21.7	109	75-126	
Styrene	ug/L	20	21.2	106	75-139	
tert-Butylbenzene	ug/L	20	20.8	104	75-125	
Tetrachloroethene	ug/L	20	20.2	101	70-125	
Tetrahydrofuran	ug/L	100	104	104	63-145	
Toluene	ug/L	20	18.7	93	74-125	
trans-1,2-Dichloroethene	ug/L	20	19.8	99	75-125	
trans-1,3-Dichloropropene	ug/L	20	19.9	99	75-127	
Trichloroethene	ug/L	20	20.0	100	74-125	
Trichlorofluoromethane	ug/L	20	21.0	105	72-125	
Vinyl chloride	ug/L	20	19.5	97	66-125	
Xylene (Total)	ug/L	60	61.6	103	75-125	
1,2-Dichlorobenzene-d4 (S)	%			100	75-125	
4-Bromofluorobenzene (S)	%			104	75-125	
Toluene-d8 (S)	%			98	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4640278 4640279

Parameter	10652428005		MS	MSD	MS		MSD		% Rec Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	13.2	11.8	66	59	75-125	12	M1
1,1,1-Trichloroethane	ug/L	ND	20	20	14.0	13.0	70	65	70-133	8	M1
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	13.1	12.0	65	60	71-125	9	M1
1,1,2-Trichloroethane	ug/L	ND	20	20	13.1	11.8	66	59	75-125	11	M1
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	14.1	12.4	70	62	50-150	13	
1,1-Dichloroethane	ug/L	ND	20	20	13.4	12.2	67	61	71-125	9	M1
1,1-Dichloroethene	ug/L	ND	20	20	13.0	12.7	65	63	60-136	2	
1,1-Dichloropropene	ug/L	ND	20	20	13.8	12.8	69	64	70-134	8	M1
1,2,3-Trichlorobenzene	ug/L	ND	20	20	13.7	12.7	68	63	66-131	8	M1
1,2,3-Trichloropropane	ug/L	ND	20	20	13.4	12.5	67	62	73-125	7	M1
1,2,4-Trichlorobenzene	ug/L	ND	20	20	13.1	11.9	66	59	66-125	10	M1
1,2,4-Trimethylbenzene	ug/L	ND	20	20	13.5	12.6	68	63	61-143	7	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	14.1	13.1	71	66	61-137	8	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	13.3	12.2	67	61	75-125	9	M1
1,2-Dichlorobenzene	ug/L	ND	20	20	13.0	12.1	65	60	75-125	8	M1
1,2-Dichloroethane	ug/L	ND	20	20	14.0	12.6	70	63	71-133	10	M1
1,2-Dichloropropane	ug/L	ND	20	20	13.6	12.2	68	61	75-125	11	M1
1,3,5-Trimethylbenzene	ug/L	ND	20	20	13.5	12.5	67	63	70-134	7	M1
1,3-Dichlorobenzene	ug/L	ND	20	20	13.2	11.8	66	59	74-125	12	M1
1,3-Dichloropropane	ug/L	ND	20	20	13.2	12.0	66	60	75-125	9	M1
1,4-Dichlorobenzene	ug/L	ND	20	20	12.8	11.8	64	59	75-125	8	M1

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QUALITY CONTROL DATA

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4640278 4640279												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		10652428005 Result	Spike Conc.	Spike Conc.	MS Result							
2,2-Dichloropropane	ug/L	ND	20	20	13.1	12.1	66	61	52-140	8		
2-Butanone (MEK)	ug/L	ND	100	100	50.7	63.7	51	64	57-142	23	M1	
2-Chlorotoluene	ug/L	ND	20	20	13.3	12.3	66	61	72-125	8	M1	
4-Chlorotoluene	ug/L	ND	20	20	13.2	12.2	66	61	69-128	8	M1	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	52.6	65.1	53	65	59-149	21	M1	
Acetone	ug/L	ND	100	100	48.7	63.1	49	63	57-137	26	M1	
Allyl chloride	ug/L	ND	20	20	12.1	11.7	61	59	47-139	3		
Benzene	ug/L	ND	20	20	13.1	11.9	65	60	66-127	9	M1	
Bromobenzene	ug/L	ND	20	20	12.9	11.6	64	58	74-125	10	M1	
Bromochloromethane	ug/L	ND	20	20	13.2	12.3	66	62	69-126	7	M1	
Bromodichloromethane	ug/L	ND	20	20	13.8	12.6	69	63	75-125	9	M1	
Bromoform	ug/L	ND	20	20	13.7	12.6	68	63	66-134	8	M1	
Bromomethane	ug/L	ND	20	20	7.7	10.6	39	53	30-150	31	R1	
Carbon tetrachloride	ug/L	ND	20	20	14.5	13.5	72	67	73-135	7	M1	
Chlorobenzene	ug/L	ND	20	20	12.6	11.4	63	57	75-125	10	M1	
Chloroethane	ug/L	ND	20	20	10.8	14.0	54	70	54-143	26		
Chloroform	ug/L	ND	20	20	13.2	12.2	66	61	75-125	8	M1	
Chloromethane	ug/L	ND	20	20	9.0	12.2	45	61	52-131	31	M1,R1	
cis-1,2-Dichloroethene	ug/L	ND	20	20	13.0	12.0	65	60	72-125	8	M1	
cis-1,3-Dichloropropene	ug/L	ND	20	20	12.9	11.9	64	59	73-125	8	M1	
Dibromochloromethane	ug/L	ND	20	20	13.7	12.2	68	61	73-125	11	M1	
Dibromomethane	ug/L	ND	20	20	13.6	12.4	68	62	67-129	9	M1	
Dichlorodifluoromethane	ug/L	ND	20	20	8.6	13.8	43	69	54-150	47	M1,R1	
Dichlorofluoromethane	ug/L	ND	20	20	10.9	14.2	54	71	63-136	27	M1	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	14.3	12.6	71	63	70-125	12	M1	
Ethylbenzene	ug/L	ND	20	20	13.0	12.0	65	60	74-128	8	M1	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	12.8	11.5	64	58	54-133	10		
Isopropylbenzene (Cumene)	ug/L	ND	20	20	13.9	12.8	69	64	75-129	8	M1	
m&p-Xylene	ug/L	ND	40	40	26.3	23.7	66	59	70-131	10	M1	
Methyl-tert-butyl ether	ug/L	ND	20	20	13.9	12.3	69	61	65-132	12	M1	
Methylene Chloride	ug/L	ND	20	20	12.2	11.5	61	58	67-125	6	M1	
n-Butylbenzene	ug/L	ND	20	20	12.7	11.5	64	58	64-130	10	M1	
n-Propylbenzene	ug/L	ND	20	20	13.5	12.5	67	63	72-127	7	M1	
Naphthalene	ug/L	ND	20	20	14.1	13.1	70	66	61-150	7		
o-Xylene	ug/L	ND	20	20	13.4	12.3	67	61	75-127	9	M1	
p-Isopropyltoluene	ug/L	ND	20	20	13.7	12.5	69	63	71-130	9	M1	
sec-Butylbenzene	ug/L	ND	20	20	13.9	13.1	70	66	73-130	6	M1	
Styrene	ug/L	ND	20	20	13.6	12.4	68	62	73-139	9	M1	
tert-Butylbenzene	ug/L	ND	20	20	13.9	13.0	69	65	73-125	6	M1	
Tetrachloroethene	ug/L	ND	20	20	12.7	11.6	64	58	69-129	9	M1	
Tetrahydrofuran	ug/L	ND	100	100	56.7	68.2	57	68	63-145	18	M1	
Toluene	ug/L	ND	20	20	12.6	11.6	63	58	66-125	8	M1	
trans-1,2-Dichloroethene	ug/L	ND	20	20	13.1	12.0	66	60	69-126	9	M1	
trans-1,3-Dichloropropene	ug/L	ND	20	20	13.2	12.1	66	61	75-127	8	M1	
Trichloroethene	ug/L	ND	20	20	13.0	11.8	65	59	69-127	9	M1	
Trichlorofluoromethane	ug/L	ND	20	20	9.9	14.9	49	75	58-150	41	M1,R1	

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QUALITY CONTROL DATA

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Parameter	Units	10652428005		4640278		4640279		% Rec	% Rec	% Rec	Limits	RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Vinyl chloride	ug/L	ND	20	20	10.5	14.6	52	73	54-146	33	M1, R1		
Xylene (Total)	ug/L	ND	60	60	39.7	36.0	66	60	75-126	10	MS		
1,2-Dichlorobenzene-d4 (S)	%						101	102	75-125		P2		
4-Bromofluorobenzene (S)	%						104	104	75-125				
Toluene-d8 (S)	%						99	100	75-125				

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QUALITY CONTROL DATA

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

QC Batch: 880367 Analysis Method: EPA 8270E by SIM
 QC Batch Method: EPA 3510C Analysis Description: 8270E Water PAH by SIM MSSV
 Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10652428001, 10652428002, 10652428003, 10652428004, 10652428005, 10652428006, 10652428009

METHOD BLANK: 4640107

Matrix: Water

Associated Lab Samples: 10652428001, 10652428002, 10652428003, 10652428004, 10652428005, 10652428006, 10652428009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.040	05/16/23 14:29	
Acenaphthylene	ug/L	ND	0.040	05/16/23 14:29	
Anthracene	ug/L	ND	0.040	05/16/23 14:29	
Benzo(a)anthracene	ug/L	ND	0.040	05/16/23 14:29	
Benzo(a)pyrene	ug/L	ND	0.040	05/16/23 14:29	
Benzo(b)fluoranthene	ug/L	ND	0.040	05/16/23 14:29	
Benzo(g,h,i)perylene	ug/L	ND	0.040	05/16/23 14:29	
Benzo(k)fluoranthene	ug/L	ND	0.040	05/16/23 14:29	
Chrysene	ug/L	ND	0.040	05/16/23 14:29	
Dibenz(a,h)anthracene	ug/L	ND	0.040	05/16/23 14:29	
Fluoranthene	ug/L	ND	0.040	05/16/23 14:29	
Fluorene	ug/L	ND	0.040	05/16/23 14:29	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.040	05/16/23 14:29	
Naphthalene	ug/L	ND	0.040	05/16/23 14:29	
Phenanthrene	ug/L	ND	0.040	05/16/23 14:29	
Pyrene	ug/L	ND	0.040	05/16/23 14:29	
2-Fluorobiphenyl (S)	%	72	49-125	05/16/23 14:29	
p-Terphenyl-d14 (S)	%	86	42-125	05/16/23 14:29	

LABORATORY CONTROL SAMPLE: 4640108

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	1	0.62	62	51-125	
Acenaphthylene	ug/L	1	0.62	62	50-125	
Anthracene	ug/L	1	0.67	67	50-125	
Benzo(a)anthracene	ug/L	1	0.75	75	59-125	
Benzo(a)pyrene	ug/L	1	0.73	73	62-125	
Benzo(b)fluoranthene	ug/L	1	0.77	77	56-125	
Benzo(g,h,i)perylene	ug/L	1	0.60	60	35-125	
Benzo(k)fluoranthene	ug/L	1	0.73	73	59-125	
Chrysene	ug/L	1	0.74	74	60-125	
Dibenz(a,h)anthracene	ug/L	1	0.57	57	30-125	
Fluoranthene	ug/L	1	0.73	73	62-125	
Fluorene	ug/L	1	0.64	64	53-125	
Indeno(1,2,3-cd)pyrene	ug/L	1	0.73	73	50-125	
Naphthalene	ug/L	1	0.57	57	49-125	
Phenanthrene	ug/L	1	0.70	70	56-125	
Pyrene	ug/L	1	0.76	76	60-125	
2-Fluorobiphenyl (S)	%			63	49-125	

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QUALITY CONTROL DATA

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

LABORATORY CONTROL SAMPLE: 4640108

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Terphenyl-d14 (S)	%.			78	42-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4640604 4640605

Parameter	10652573001		MSD		MSD		MSD		% Rec Limits	RPD	Qual
	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec			
Acenaphthene	ug/L	ND	3.3	3.3	2.5	2.5	74	74	30-125	0	
Acenaphthylene	ug/L	ND	3.3	3.3	2.4	2.5	73	75	30-125	3	
Anthracene	ug/L	ND	3.3	3.3	2.9	2.8	87	85	33-128	2	
Benzo(a)anthracene	ug/L	ND	3.3	3.3	3.2	3.0	95	91	33-125	4	
Benzo(a)pyrene	ug/L	ND	3.3	3.3	3.0	3.0	91	89	32-125	3	
Benzo(b)fluoranthene	ug/L	ND	3.3	3.3	3.2	3.2	96	96	31-125	0	
Benzo(g,h,i)perylene	ug/L	ND	3.3	3.3	2.7	2.6	80	79	31-125	1	
Benzo(k)fluoranthene	ug/L	ND	3.3	3.3	2.9	2.9	87	86	35-127	1	
Chrysene	ug/L	ND	3.3	3.3	3.0	2.9	90	87	39-125	4	
Dibenz(a,h)anthracene	ug/L	ND	3.3	3.3	2.9	2.8	86	83	30-125	3	
Fluoranthene	ug/L	ND	3.3	3.3	3.1	3.1	94	92	43-125	2	
Fluorene	ug/L	ND	3.3	3.3	2.8	2.7	85	81	30-125	5	
Indeno(1,2,3-cd)pyrene	ug/L	ND	3.3	3.3	2.9	2.8	86	85	30-125	2	
Naphthalene	ug/L	ND	3.3	3.3	2.2	2.2	65	67	31-125	3	
Phenanthrene	ug/L	ND	3.3	3.3	2.9	2.8	86	85	33-125	1	
Pyrene	ug/L	ND	3.3	3.3	2.8	2.7	84	82	41-125	4	
2-Fluorobiphenyl (S)	%.						71	75	49-125		P1
p-Terphenyl-d14 (S)	%.						84	82	42-125		

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

QC Batch: 879964 Analysis Method: SM 3500-Cr B Modified
 QC Batch Method: SM 3500-Cr B Modified Analysis Description: Chromium, Hexavalent by 3500
 Laboratory: Pace Analytical Services - Minneapolis
 Associated Lab Samples: 10652428001, 10652428002, 10652428003, 10652428004, 10652428005, 10652428006, 10652428007, 10652428009

METHOD BLANK: 4638335 Matrix: Water
 Associated Lab Samples: 10652428001, 10652428002, 10652428003, 10652428004, 10652428005, 10652428006, 10652428007, 10652428009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	ND	0.010	05/09/23 08:39	

LABORATORY CONTROL SAMPLE: 4638336

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.25	0.25	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4638337 4638338

Parameter	Units	10652272001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chromium, Hexavalent	mg/L	ND	0.25	0.25	0.26	0.26	100	98	85-115	1	

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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QUALIFIERS

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 880411

[1] The continuing calibration verification was below the method acceptance limit for chloromethane and bromomethane. The analytes were not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

ANALYTE QUALIFIERS

H1 Analysis conducted outside the recognized method holding time.

H3 Sample was received or analysis requested beyond the recognized method holding time.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.

P1 Routine initial sample volume or weight was not used for extraction, resulting in elevated reporting limits.

P2 Re-extraction or re-analysis could not be performed due to insufficient sample amount.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 117-7383011 3M Phase 2 CESA-Revised Report

Pace Project No.: 10652428

Table with 6 columns: Lab ID, Sample ID, QC Batch Method, QC Batch, Analytical Method, Analytical Batch. It lists various sample IDs and their corresponding QC and analytical data.

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

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

Company: **TECNO TECH**
 Address: **131555 Bishops Ct Bingham**
 Report to: **Chris Bonniwell**
 Copy to: **Chris Bonniwell**

Billing Information: **(Same)**
 Email To: **Chris.Bonniwell@technotech.com**
 Site Collection Info/Address: **1425 Stike, Mechanics WI**

Customer Project Name/Number: **117-7303011**
3M Phase 2 CESA
 Phone: **202-202-7393**
 Email: **202-0254**
 Collected By (print): **Chris Bonniwell**
 Collected By (Signature): *[Signature]*
 Turnaround Date Required: **STANDARD**
 Rush: Same Day Next Day 3 Day 4 Day 5 Day (Expedite Charges Apply)
 Disposal: Dispose as appropriate Return Archive Hold

* Matrix Codes (Insert in Matrix box below): Drinking Water (GW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp/Grab	Collected (or Composite Start)		Res Cl	# of Ctns
			Date	Time		
MEW1-GW-MW1-0-230508	GW	G	5-8-23	12:00		7
MEW2-GW-MW2-0-230508	GW		5-9-23	07:50		7
MEW3-GW-MW3-0-230508	GW		5-9-23	17:00		7
MEW4-GW-MW4-0-230508	GW		5-9-23	16:00		7
MEW5-GW-MW5-0-230508	GW		5-9-23	15:00		7
MEW6-GW-MW6-0-230508	GW		5-9-23	14:25		7
MEW7-GW-MW7-0-230508	GW		5-9-23	13:30		7
Trp Blank	W					1
MEW8-GW-DF-0-230508	W		5-9-23	-		2
						7

Customer Remarks / Special Conditions / Possible Hazards:
PFAS SAMPLES ON SEPARATE CHAIN-OF-CUSTODY

Relinquished by Company (Signature): *[Signature]* Date/Time: **05-09-23 11:25**
 Relinquished by Company (Signature): *[Signature]* Date/Time: **5/9/23 11:37**
 Relinquished by Company (Signature): *[Signature]* Date/Time: **5/9/23 11:37**

LAB USE ONLY - Affix Workorder/Lozin Label Here or List Date, Worksheet Number, etc.
WO#: 10652428
ALL SHAL
10652428
 Container Preservative Type: **T**
 ** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses	Y	N	N/A
VOC 8260	X		
PAH SIM 8270	X		
PCMA Metals	X		
Hexavalent Chromium	X		

Lab Profile/Line: **001**
 Lab Sample Receipt Check List:
 Custody Seals Present/Intact Y N NA
 Custody Signatures Present Y N NA
 Collector Signature Present Y N NA
 Bottles Intact Y N NA
 Correct Bottles Y N NA
 Sufficient Volume Y N NA
 Samples Received on Ice Y N NA
 VOA - Headspace Acceptable Y N NA
 USDA Regulated Soils Y N NA
 Samples in Holding Time Y N NA
 Residual Chlorine Present Y N NA
 Cl Strips: Y N NA
 Sample pH Acceptable Y N NA
 pH Strips: Y N NA
 Sulfide Present Y N NA
 Lead Acetate Strips: Y N NA
 LAB USE ONLY:
 Lab Sample # / Comments: **001**
002
003
004
005
006
007
008
009

Lab Sample Temperature Info:
 Temp Blank Received: Y N NA
 Therm ID#: **TF**
 Cooler 1 Temp Upon Receipt: **10.0** °C
 Cooler 1 Therm Corr. Factor: **0.0**
 Cooler 1 Corrected Temp: **10.0** °C
 Comments: **5.14.4, 3.8.15.2**
 Trip Blank Received: Y N NA
 HCL MeOH TSP Other
 Non Conformance(s): YES / NO
 Page: of:

Effective Date: 4/14/2023

Sample Condition Upon Receipt Client Name: tetra tech

Project #: **WO#: 10652428**
PM: FEP Due Date: 05/23/23
CLIENT: TETRATECH-MN

Courier: FedEx UPS USPS Client
 Pace Speedee 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) Type of Ice: Wet Blue Dry None
 T6 (0235) T7 (0042) T8 (0775) T9 (0727) 01339252/1710 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: _____ °C Average Corrected Temp (no temp blank only): _____ °C
Correction Factor: +0.1 Cooler Temp Corrected w/temp blank: _____ °C See Exceptions ENV-FRM-MIN4-0142 1 Container

USDA Regulated Soil: N/A, water sample/other: _____ Date/Initials of Person Examining Contents: MS-9-23
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 checked="" 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 checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <u>MS-9-23</u>	5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E.coli <input type="checkbox"/> BOD/cBOD <input checked="" 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 type="checkbox"/> No <input checked="" 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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12. Sample # <u>1-7,9: 1/1</u> <input type="checkbox"/> NaOH <input checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input 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
Exceptions <u>VOA</u> , 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 type="checkbox"/> N/A	pH Paper Lot # Residual Chlorine <u>0-6 Roll 208472</u> 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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
3 Trip Blanks Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Pace Trip Blank Lot # (if purchased): <u>415727(6)</u>

CLIENT NOTIFICATION/RESOLUTION
Person Contacted: Chris Bonniwell / Email Date/Time: 05/09/23 16:18
Comments/Resolution: Proceed with analysis on samples that are out of hold.
Project Manager Review: [Signature] Date: 05/10/2023

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: BGZ 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
5.7, 4.8	5.8, 4.9	5.1, 4.4
5.4, 3.8	5.5, 3.9	
4.0, 4.5	4.1, 4.6	
5.1, 4.2	5.2, 4.3	

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
	5.1
	3.8
	5.8
	4.4

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:

Pace Container Order #1092013

Addresses	Ship To :	Return To:
Order By :	Ship To :	Return To:
Company <u>Tetra Tech GEO - Brookfield</u>	Company <u>Tetra Tech GEO - Brookfield</u>	Company <u>Pace Analytical Minnesota</u>
Contact <u>Lauzon, Connor</u>	Contact <u>Lauzon, Connor</u>	Contact <u>Parcher, Fiona</u>
Email <u>connor.lauzon@tetratech.com</u>	Email <u>connor.lauzon@tetratech.com</u>	Email <u>fiona.parcher@pacelabs.com</u>
Address <u>13555 Bishops Ct</u>	Address <u>13555 Bishops Ct</u>	Address <u>1700 Elm Street</u>
Address 2 <u>STE 201</u>	Address 2 <u>STE 201</u>	Address 2 <u>Suite 200</u>
City <u>Brookfield</u>	City <u>Brookfield</u>	City <u>Minneapolis</u>
State <u>WI</u> Zip <u>53005</u>	State <u>WI</u> Zip <u>53005</u>	State <u>MN</u> Zip <u>55414</u>
Phone <u>NONE</u>	Phone <u>NONE</u>	Phone <u>(612)607-6435</u>

Info			
Project Name <u>3M Menomonie</u>	Due Date <u>04/25/2023</u>	Profile _____	Quote _____
Project Manager <u>Parcher, Fiona</u>	Return Date _____	Carrier <u>Most Economical</u>	Location <u>WI</u>

Trip Blanks <input checked="" type="checkbox"/> Include Trip Blanks	Bottle Labels <input type="checkbox"/> Blank <input type="checkbox"/> Pre-Printed No Sample IDs <input checked="" type="checkbox"/> Pre-Printed With Sample IDs	Bottles <input type="checkbox"/> Boxed Cases <input type="checkbox"/> Individually Wrapped <input checked="" type="checkbox"/> Grouped By Sample ID/Matrix
Return Shipping Labels <input type="checkbox"/> No Shipper <input type="checkbox"/> With Shipper	Misc <input type="checkbox"/> Sampling Instructions <input checked="" type="checkbox"/> Custody Seal <input checked="" type="checkbox"/> Temp. Blanks <input checked="" type="checkbox"/> Coolers _____ <input checked="" type="checkbox"/> Syringes _____	
COC Options <input checked="" type="checkbox"/> Number of Blanks <u>3</u> <input type="checkbox"/> Pre-Printed _____	<input type="checkbox"/> Extra Bubble Wrap <input type="checkbox"/> Short Hold/Rush Stickers <input type="checkbox"/> DI Water <u>Liter(s)</u> <input type="checkbox"/> USDA Regulated Soils	

# of Samples	Matrix	Test	Container	* Total	# of	Lot #	Notes
10	WT	VOC by 8260	(3) 40 mL clear glass vials, HCL	30	0	030623-3CYR	
9	WT	PAH SIM by 8270	2-1L amber glass unpres	18	0	013023-1DDN	
9	WT	RCRA Metals	250mL plastic HNO3	9	0	032723-2EIZ	
9	WT	Hexavalent Chromium	250 mL unpreserved	9	0	010223-2EIX	Short Hold
2	WT	Trip Blank	2-40mL HCl+DI water	4	0	415727	
16	SL	VOC by 8260	40mL voc w/ 10mL MeOH	36	4	011623-3:52163	
10	SL	PAH by 8270SIM	4oz. jar	10	0	032023-1KM	
16	SL	Moisture/Dry Weight	Dry Weight Container	16	0	1129*21-5	
2	SL	Trip Blank	1-40 mL vials w/ 10mL MeOH	2	0	011623-3	

Hazard Shipping Placard In

*Sample receiving hours are Mon-Fri 7:30am-7:00pm with your project manager.

*Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.

*Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage/disposal.

*Payment term are net 30 days.

*Please include the proposal number on the chain of custody to insure proper billing.

RETURN W/ SAMPLES special arrangements are made

LAB USE:

Ship Date : 04/25/2023

Prepared By: PC

Verified By: _____

Sample

CLIENT USE (Optional):

Date Rec'd: _____

Received By: _____

Verified By: _____

May 17, 2023

Chris Bonniwell
Tetra Tech
13555 Bishops Ct. Ste. 201
Brookfield, WI 53005

RE: Project: 3M Menomonie /117-7383011
Pace Project No.: 10652236

Dear Chris Bonniwell:

Enclosed are the analytical results for sample(s) received by the laboratory on May 05, 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,



Fiona Parcher
fiona.parcher@pacelabs.com
(612)607-6435
Project Manager

Enclosures

cc: Eric Carman, Tetra Tech



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10652236001	MEWI-S-MW7-2-3FT-0-230502	Solid	05/02/23 09:15	05/05/23 15:18
10652236002	MEWI-S-MW7-58-59FT-0-230502	Solid	05/02/23 11:40	05/05/23 15:18
10652236003	MEWI-S-MW6-2-3FT-0-230503	Solid	05/03/23 08:15	05/05/23 15:18
10652236004	MEWI-S-MW6-58-59FT-0-230503	Solid	05/03/23 09:25	05/05/23 15:18
10652236005	MEWI-S-MW3-4.5-5.5FT-0-230503	Solid	05/03/23 08:15	05/05/23 15:18
10652236006	MEWI-S-MW3-12.5-13.5FT-0-23050	Solid	05/03/23 08:35	05/05/23 15:18
10652236007	MEWI-S-MW3-59-60FT-0-230503	Solid	05/03/23 11:05	05/05/23 15:18
10652236008	MEWI-S-SB30-4.5-5.5FT-0-230503	Solid	05/03/23 15:15	05/05/23 15:18
10652236009	MEWI-S-SB30-12.5-13.5FT-0-2305	Solid	05/03/23 15:30	05/05/23 15:18
10652236010	MEWI-S-SB30-19-20FT-0-230503	Solid	05/03/23 15:45	05/05/23 15:18
10652236011	MEWI-W-FB3-FB-0-230504	Water	05/04/23 10:00	05/05/23 15:18
10652236012	MEWI-W-EB3-EB-0-230504	Water	05/04/23 13:30	05/05/23 15:18
10652236013	MEWI-W-TB1-TB	Solid		05/05/23 15:18

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10652236001	MEWI-S-MW7-2-3FT-0-230502	ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	JLR	18	PASI-M
		EPA 8260D	ZB	72	PASI-M
10652236002	MEWI-S-MW7-58-59FT-0-230502	ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	JLR	18	PASI-M
		EPA 8260D	ZB	72	PASI-M
10652236003	MEWI-S-MW6-2-3FT-0-230503	ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	JLR	18	PASI-M
		EPA 8260D	ZB	72	PASI-M
10652236004	MEWI-S-MW6-58-59FT-0-230503	ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	JLR	18	PASI-M
		EPA 8260D	ZB	72	PASI-M
10652236005	MEWI-S-MW3-4.5-5.5FT-0-230503	ASTM D2974	JDL	1	PASI-M
		EPA 8260D	ZB	72	PASI-M
		ASTM D2974	JDL	1	PASI-M
10652236006	MEWI-S-MW3-12.5-13.5FT-0-23050	EPA 8260D	ZB	72	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8260D	ZB	72	PASI-M
10652236007	MEWI-S-MW3-59-60FT-0-230503	ASTM D2974	JDL	1	PASI-M
		EPA 8260D	ZB	72	PASI-M
		ASTM D2974	JDL	1	PASI-M
10652236008	MEWI-S-SB30-4.5-5.5FT-0-230503	EPA 8260D	ZB	72	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8260D	ZB	72	PASI-M
10652236009	MEWI-S-SB30-12.5-13.5FT-0-2305	ASTM D2974	JDL	1	PASI-M
		EPA 8260D	ZB	72	PASI-M
		ASTM D2974	JDL	1	PASI-M
10652236010	MEWI-S-SB30-19-20FT-0-230503	EPA 8260D	ZB	72	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8260D	ZB	72	PASI-M
10652236011	MEWI-W-FB3-FB-0-230504	EPA 8270E by SIM	JLR	18	PASI-M
		EPA 8260D	TKL	72	PASI-M
10652236012	MEWI-W-EB3-EB-0-230504	EPA 8270E by SIM	JLR	18	PASI-M
		EPA 8260D	TKL	72	PASI-M
10652236013	MEWI-W-TB1-TB	EPA 8260D	ZB	72	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-S-MW7-2-3FT-0-230502 **Lab ID:** 10652236001 Collected: 05/02/23 09:15 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974									
Analytical Method: ASTM D2974									
Pace Analytical Services - Minneapolis									
Percent Moisture	7.9	%	0.10	0.10	1		05/11/23 12:19		N2
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Minneapolis									
Acenaphthene	ND	ug/kg	10.8	2.2	1	05/09/23 20:55	05/15/23 18:21	83-32-9	
Acenaphthylene	ND	ug/kg	10.8	1.2	1	05/09/23 20:55	05/15/23 18:21	208-96-8	
Anthracene	ND	ug/kg	10.8	0.99	1	05/09/23 20:55	05/15/23 18:21	120-12-7	
Benzo(a)anthracene	ND	ug/kg	10.8	1.8	1	05/09/23 20:55	05/15/23 18:21	56-55-3	
Benzo(a)pyrene	ND	ug/kg	10.8	1.2	1	05/09/23 20:55	05/15/23 18:21	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	10.8	1.1	1	05/09/23 20:55	05/15/23 18:21	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	10.8	2.0	1	05/09/23 20:55	05/15/23 18:21	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	10.8	1.1	1	05/09/23 20:55	05/15/23 18:21	207-08-9	
Chrysene	ND	ug/kg	10.8	1.1	1	05/09/23 20:55	05/15/23 18:21	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	10.8	1.3	1	05/09/23 20:55	05/15/23 18:21	53-70-3	
Fluoranthene	ND	ug/kg	10.8	0.78	1	05/09/23 20:55	05/15/23 18:21	206-44-0	
Fluorene	ND	ug/kg	10.8	1.2	1	05/09/23 20:55	05/15/23 18:21	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	10.8	0.86	1	05/09/23 20:55	05/15/23 18:21	193-39-5	
Naphthalene	ND	ug/kg	10.8	1.2	1	05/09/23 20:55	05/15/23 18:21	91-20-3	
Phenanthrene	ND	ug/kg	10.8	0.85	1	05/09/23 20:55	05/15/23 18:21	85-01-8	
Pyrene	ND	ug/kg	10.8	1.6	1	05/09/23 20:55	05/15/23 18:21	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	70	%	54-125		1	05/09/23 20:55	05/15/23 18:21	321-60-8	
p-Terphenyl-d14 (S)	89	%	60-125		1	05/09/23 20:55	05/15/23 18:21	1718-51-0	
8260D MSV 5030 Med Level									
Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Minneapolis									
Acetone	ND	ug/kg	609	230	1	05/08/23 14:45	05/09/23 04:16	67-64-1	
Allyl chloride	ND	ug/kg	122	29.1	1	05/08/23 14:45	05/09/23 04:16	107-05-1	
Benzene	ND	ug/kg	12.2	3.7	1	05/08/23 14:45	05/09/23 04:16	71-43-2	
Bromobenzene	ND	ug/kg	30.5	9.1	1	05/08/23 14:45	05/09/23 04:16	108-86-1	
Bromochloromethane	ND	ug/kg	30.5	3.6	1	05/08/23 14:45	05/09/23 04:16	74-97-5	
Bromodichloromethane	ND	ug/kg	30.5	8.8	1	05/08/23 14:45	05/09/23 04:16	75-27-4	
Bromoform	ND	ug/kg	122	49.9	1	05/08/23 14:45	05/09/23 04:16	75-25-2	
Bromomethane	ND	ug/kg	305	54.0	1	05/08/23 14:45	05/09/23 04:16	74-83-9	
2-Butanone (MEK)	ND	ug/kg	152	47.9	1	05/08/23 14:45	05/09/23 04:16	78-93-3	
n-Butylbenzene	ND	ug/kg	30.5	6.4	1	05/08/23 14:45	05/09/23 04:16	104-51-8	
sec-Butylbenzene	ND	ug/kg	30.5	8.3	1	05/08/23 14:45	05/09/23 04:16	135-98-8	
tert-Butylbenzene	ND	ug/kg	30.5	5.7	1	05/08/23 14:45	05/09/23 04:16	98-06-6	
Carbon tetrachloride	ND	ug/kg	30.5	4.0	1	05/08/23 14:45	05/09/23 04:16	56-23-5	
Chlorobenzene	ND	ug/kg	30.5	6.5	1	05/08/23 14:45	05/09/23 04:16	108-90-7	
Chloroethane	ND	ug/kg	305	55.9	1	05/08/23 14:45	05/09/23 04:16	75-00-3	
Chloroform	ND	ug/kg	30.5	7.4	1	05/08/23 14:45	05/09/23 04:16	67-66-3	
Chloromethane	ND	ug/kg	122	22.7	1	05/08/23 14:45	05/09/23 04:16	74-87-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-S-MW7-2-3FT-0-230502 **Lab ID:** 10652236001 Collected: 05/02/23 09:15 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260D MSV 5030 Med Level Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis									
2-Chlorotoluene	ND	ug/kg	30.5	6.5	1	05/08/23 14:45	05/09/23 04:16	95-49-8	
4-Chlorotoluene	ND	ug/kg	30.5	3.6	1	05/08/23 14:45	05/09/23 04:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	305	12.7	1	05/08/23 14:45	05/09/23 04:16	96-12-8	
Dibromochloromethane	ND	ug/kg	122	58.7	1	05/08/23 14:45	05/09/23 04:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	30.5	10.2	1	05/08/23 14:45	05/09/23 04:16	106-93-4	
Dibromomethane	ND	ug/kg	30.5	11.8	1	05/08/23 14:45	05/09/23 04:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	30.5	6.1	1	05/08/23 14:45	05/09/23 04:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	30.5	8.8	1	05/08/23 14:45	05/09/23 04:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	30.5	4.9	1	05/08/23 14:45	05/09/23 04:16	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	122	15.5	1	05/08/23 14:45	05/09/23 04:16	75-71-8	
1,1-Dichloroethane	ND	ug/kg	30.5	10.6	1	05/08/23 14:45	05/09/23 04:16	75-34-3	
1,2-Dichloroethane	ND	ug/kg	30.5	10.3	1	05/08/23 14:45	05/09/23 04:16	107-06-2	
1,1-Dichloroethene	ND	ug/kg	30.5	8.5	1	05/08/23 14:45	05/09/23 04:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	30.5	6.7	1	05/08/23 14:45	05/09/23 04:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	30.5	5.7	1	05/08/23 14:45	05/09/23 04:16	156-60-5	
Dichlorofluoromethane	ND	ug/kg	305	14.1	1	05/08/23 14:45	05/09/23 04:16	75-43-4	
1,2-Dichloropropane	ND	ug/kg	30.5	8.6	1	05/08/23 14:45	05/09/23 04:16	78-87-5	
1,3-Dichloropropane	ND	ug/kg	30.5	9.9	1	05/08/23 14:45	05/09/23 04:16	142-28-9	
2,2-Dichloropropane	ND	ug/kg	122	11.1	1	05/08/23 14:45	05/09/23 04:16	594-20-7	
1,1-Dichloropropene	ND	ug/kg	30.5	6.4	1	05/08/23 14:45	05/09/23 04:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	30.5	9.2	1	05/08/23 14:45	05/09/23 04:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	30.5	9.2	1	05/08/23 14:45	05/09/23 04:16	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	122	8.9	1	05/08/23 14:45	05/09/23 04:16	60-29-7	
Ethylbenzene	ND	ug/kg	30.5	5.2	1	05/08/23 14:45	05/09/23 04:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	152	8.2	1	05/08/23 14:45	05/09/23 04:16	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	30.5	7.5	1	05/08/23 14:45	05/09/23 04:16	98-82-8	
p-Isopropyltoluene	ND	ug/kg	30.5	4.3	1	05/08/23 14:45	05/09/23 04:16	99-87-6	
Methylene Chloride	ND	ug/kg	122	50.6	1	05/08/23 14:45	05/09/23 04:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	152	33.0	1	05/08/23 14:45	05/09/23 04:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	30.5	11.6	1	05/08/23 14:45	05/09/23 04:16	1634-04-4	
Naphthalene	ND	ug/kg	122	7.4	1	05/08/23 14:45	05/09/23 04:16	91-20-3	
n-Propylbenzene	ND	ug/kg	30.5	6.9	1	05/08/23 14:45	05/09/23 04:16	103-65-1	
Styrene	ND	ug/kg	30.5	5.9	1	05/08/23 14:45	05/09/23 04:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	30.5	9.8	1	05/08/23 14:45	05/09/23 04:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	30.5	8.1	1	05/08/23 14:45	05/09/23 04:16	79-34-5	
Tetrachloroethene	ND	ug/kg	30.5	5.1	1	05/08/23 14:45	05/09/23 04:16	127-18-4	
Tetrahydrofuran	ND	ug/kg	1220	24.1	1	05/08/23 14:45	05/09/23 04:16	109-99-9	
Toluene	ND	ug/kg	30.5	11.5	1	05/08/23 14:45	05/09/23 04:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	30.5	8.4	1	05/08/23 14:45	05/09/23 04:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	30.5	7.9	1	05/08/23 14:45	05/09/23 04:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	30.5	8.1	1	05/08/23 14:45	05/09/23 04:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	30.5	8.4	1	05/08/23 14:45	05/09/23 04:16	79-00-5	
Trichloroethene	ND	ug/kg	30.5	7.7	1	05/08/23 14:45	05/09/23 04:16	79-01-6	

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-S-MW7-2-3FT-0-230502 **Lab ID:** 10652236001 Collected: 05/02/23 09:15 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260D MSV 5030 Med Level									
Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Minneapolis									
Trichlorofluoromethane	ND	ug/kg	122	12.5	1	05/08/23 14:45	05/09/23 04:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	122	11.8	1	05/08/23 14:45	05/09/23 04:16	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	122	8.6	1	05/08/23 14:45	05/09/23 04:16	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	30.5	6.4	1	05/08/23 14:45	05/09/23 04:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	30.5	4.1	1	05/08/23 14:45	05/09/23 04:16	108-67-8	
Vinyl chloride	ND	ug/kg	12.2	5.4	1	05/08/23 14:45	05/09/23 04:16	75-01-4	
Xylene (Total)	ND	ug/kg	91.4	11.5	1	05/08/23 14:45	05/09/23 04:16	1330-20-7	
m&p-Xylene	ND	ug/kg	60.9	11.5	1	05/08/23 14:45	05/09/23 04:16	179601-23-1	
o-Xylene	ND	ug/kg	30.5	7.3	1	05/08/23 14:45	05/09/23 04:16	95-47-6	
Surrogates									
Toluene-d8 (S)	106	%	75-125		1	05/08/23 14:45	05/09/23 04:16	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	05/08/23 14:45	05/09/23 04:16	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	75-125		1	05/08/23 14:45	05/09/23 04:16	2199-69-1	

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-S-MW7-58-59FT-0-230502 **Lab ID:** 10652236002 Collected: 05/02/23 11:40 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974									
Analytical Method: ASTM D2974									
Pace Analytical Services - Minneapolis									
Percent Moisture	4.9	%	0.10	0.10	1		05/11/23 12:19		N2
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Minneapolis									
Acenaphthene	ND	ug/kg	10.5	2.1	1	05/09/23 20:55	05/15/23 18:40	83-32-9	
Acenaphthylene	ND	ug/kg	10.5	1.2	1	05/09/23 20:55	05/15/23 18:40	208-96-8	
Anthracene	ND	ug/kg	10.5	0.96	1	05/09/23 20:55	05/15/23 18:40	120-12-7	
Benzo(a)anthracene	ND	ug/kg	10.5	1.8	1	05/09/23 20:55	05/15/23 18:40	56-55-3	
Benzo(a)pyrene	ND	ug/kg	10.5	1.2	1	05/09/23 20:55	05/15/23 18:40	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	10.5	1.0	1	05/09/23 20:55	05/15/23 18:40	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	10.5	2.0	1	05/09/23 20:55	05/15/23 18:40	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	10.5	1.1	1	05/09/23 20:55	05/15/23 18:40	207-08-9	
Chrysene	ND	ug/kg	10.5	1.1	1	05/09/23 20:55	05/15/23 18:40	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	10.5	1.2	1	05/09/23 20:55	05/15/23 18:40	53-70-3	
Fluoranthene	ND	ug/kg	10.5	0.76	1	05/09/23 20:55	05/15/23 18:40	206-44-0	
Fluorene	ND	ug/kg	10.5	1.2	1	05/09/23 20:55	05/15/23 18:40	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	10.5	0.84	1	05/09/23 20:55	05/15/23 18:40	193-39-5	
Naphthalene	ND	ug/kg	10.5	1.2	1	05/09/23 20:55	05/15/23 18:40	91-20-3	
Phenanthrene	ND	ug/kg	10.5	0.82	1	05/09/23 20:55	05/15/23 18:40	85-01-8	
Pyrene	ND	ug/kg	10.5	1.6	1	05/09/23 20:55	05/15/23 18:40	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	82	%	54-125		1	05/09/23 20:55	05/15/23 18:40	321-60-8	
p-Terphenyl-d14 (S)	90	%	60-125		1	05/09/23 20:55	05/15/23 18:40	1718-51-0	
8260D MSV 5030 Med Level									
Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Minneapolis									
Acetone	ND	ug/kg	554	209	1	05/08/23 14:45	05/09/23 04:31	67-64-1	
Allyl chloride	ND	ug/kg	111	26.4	1	05/08/23 14:45	05/09/23 04:31	107-05-1	
Benzene	34.3	ug/kg	11.1	3.4	1	05/08/23 14:45	05/09/23 04:31	71-43-2	
Bromobenzene	ND	ug/kg	27.7	8.3	1	05/08/23 14:45	05/09/23 04:31	108-86-1	
Bromochloromethane	ND	ug/kg	27.7	3.3	1	05/08/23 14:45	05/09/23 04:31	74-97-5	
Bromodichloromethane	ND	ug/kg	27.7	8.0	1	05/08/23 14:45	05/09/23 04:31	75-27-4	
Bromoform	ND	ug/kg	111	45.4	1	05/08/23 14:45	05/09/23 04:31	75-25-2	
Bromomethane	ND	ug/kg	277	49.1	1	05/08/23 14:45	05/09/23 04:31	74-83-9	
2-Butanone (MEK)	ND	ug/kg	139	43.6	1	05/08/23 14:45	05/09/23 04:31	78-93-3	
n-Butylbenzene	ND	ug/kg	27.7	5.8	1	05/08/23 14:45	05/09/23 04:31	104-51-8	
sec-Butylbenzene	ND	ug/kg	27.7	7.5	1	05/08/23 14:45	05/09/23 04:31	135-98-8	
tert-Butylbenzene	ND	ug/kg	27.7	5.2	1	05/08/23 14:45	05/09/23 04:31	98-06-6	
Carbon tetrachloride	ND	ug/kg	27.7	3.7	1	05/08/23 14:45	05/09/23 04:31	56-23-5	
Chlorobenzene	ND	ug/kg	27.7	5.9	1	05/08/23 14:45	05/09/23 04:31	108-90-7	
Chloroethane	ND	ug/kg	277	50.9	1	05/08/23 14:45	05/09/23 04:31	75-00-3	
Chloroform	ND	ug/kg	27.7	6.7	1	05/08/23 14:45	05/09/23 04:31	67-66-3	
Chloromethane	ND	ug/kg	111	20.7	1	05/08/23 14:45	05/09/23 04:31	74-87-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-S-MW7-58-59FT-0-230502 **Lab ID:** 10652236002 Collected: 05/02/23 11:40 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260D MSV 5030 Med Level Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis									
2-Chlorotoluene	ND	ug/kg	27.7	5.9	1	05/08/23 14:45	05/09/23 04:31	95-49-8	
4-Chlorotoluene	ND	ug/kg	27.7	3.3	1	05/08/23 14:45	05/09/23 04:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	277	11.5	1	05/08/23 14:45	05/09/23 04:31	96-12-8	
Dibromochloromethane	ND	ug/kg	111	53.4	1	05/08/23 14:45	05/09/23 04:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	27.7	9.3	1	05/08/23 14:45	05/09/23 04:31	106-93-4	
Dibromomethane	ND	ug/kg	27.7	10.7	1	05/08/23 14:45	05/09/23 04:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	27.7	5.5	1	05/08/23 14:45	05/09/23 04:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	27.7	8.0	1	05/08/23 14:45	05/09/23 04:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	27.7	4.4	1	05/08/23 14:45	05/09/23 04:31	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	111	14.1	1	05/08/23 14:45	05/09/23 04:31	75-71-8	
1,1-Dichloroethane	ND	ug/kg	27.7	9.6	1	05/08/23 14:45	05/09/23 04:31	75-34-3	
1,2-Dichloroethane	ND	ug/kg	27.7	9.4	1	05/08/23 14:45	05/09/23 04:31	107-06-2	
1,1-Dichloroethene	ND	ug/kg	27.7	7.8	1	05/08/23 14:45	05/09/23 04:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	27.7	6.1	1	05/08/23 14:45	05/09/23 04:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	27.7	5.2	1	05/08/23 14:45	05/09/23 04:31	156-60-5	
Dichlorofluoromethane	ND	ug/kg	277	12.9	1	05/08/23 14:45	05/09/23 04:31	75-43-4	
1,2-Dichloropropane	ND	ug/kg	27.7	7.8	1	05/08/23 14:45	05/09/23 04:31	78-87-5	
1,3-Dichloropropane	ND	ug/kg	27.7	9.0	1	05/08/23 14:45	05/09/23 04:31	142-28-9	
2,2-Dichloropropane	ND	ug/kg	111	10.1	1	05/08/23 14:45	05/09/23 04:31	594-20-7	
1,1-Dichloropropene	ND	ug/kg	27.7	5.8	1	05/08/23 14:45	05/09/23 04:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	27.7	8.4	1	05/08/23 14:45	05/09/23 04:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	27.7	8.4	1	05/08/23 14:45	05/09/23 04:31	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	111	8.1	1	05/08/23 14:45	05/09/23 04:31	60-29-7	
Ethylbenzene	ND	ug/kg	27.7	4.8	1	05/08/23 14:45	05/09/23 04:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	139	7.4	1	05/08/23 14:45	05/09/23 04:31	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	27.7	6.8	1	05/08/23 14:45	05/09/23 04:31	98-82-8	
p-Isopropyltoluene	ND	ug/kg	27.7	3.9	1	05/08/23 14:45	05/09/23 04:31	99-87-6	
Methylene Chloride	ND	ug/kg	111	46.0	1	05/08/23 14:45	05/09/23 04:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	139	30.0	1	05/08/23 14:45	05/09/23 04:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	27.7	10.6	1	05/08/23 14:45	05/09/23 04:31	1634-04-4	
Naphthalene	ND	ug/kg	111	6.8	1	05/08/23 14:45	05/09/23 04:31	91-20-3	
n-Propylbenzene	ND	ug/kg	27.7	6.3	1	05/08/23 14:45	05/09/23 04:31	103-65-1	
Styrene	ND	ug/kg	27.7	5.4	1	05/08/23 14:45	05/09/23 04:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	27.7	8.9	1	05/08/23 14:45	05/09/23 04:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	27.7	7.4	1	05/08/23 14:45	05/09/23 04:31	79-34-5	
Tetrachloroethene	ND	ug/kg	27.7	4.7	1	05/08/23 14:45	05/09/23 04:31	127-18-4	
Tetrahydrofuran	ND	ug/kg	1110	21.9	1	05/08/23 14:45	05/09/23 04:31	109-99-9	
Toluene	65.4	ug/kg	27.7	10.5	1	05/08/23 14:45	05/09/23 04:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	27.7	7.6	1	05/08/23 14:45	05/09/23 04:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	27.7	7.2	1	05/08/23 14:45	05/09/23 04:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	27.7	7.4	1	05/08/23 14:45	05/09/23 04:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	27.7	7.6	1	05/08/23 14:45	05/09/23 04:31	79-00-5	
Trichloroethene	ND	ug/kg	27.7	7.0	1	05/08/23 14:45	05/09/23 04:31	79-01-6	

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-S-MW7-58-59FT-0-230502 **Lab ID:** 10652236002 Collected: 05/02/23 11:40 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report		DF	Prepared	Analyzed	CAS No.	Qual
			Limit	MDL					
8260D MSV 5030 Med Level									
Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Minneapolis									
Trichlorofluoromethane	ND	ug/kg	111	11.4	1	05/08/23 14:45	05/09/23 04:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	111	10.8	1	05/08/23 14:45	05/09/23 04:31	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	111	7.8	1	05/08/23 14:45	05/09/23 04:31	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	27.7	5.8	1	05/08/23 14:45	05/09/23 04:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	27.7	3.8	1	05/08/23 14:45	05/09/23 04:31	108-67-8	
Vinyl chloride	ND	ug/kg	11.1	4.9	1	05/08/23 14:45	05/09/23 04:31	75-01-4	
Xylene (Total)	ND	ug/kg	83.1	10.5	1	05/08/23 14:45	05/09/23 04:31	1330-20-7	
m&p-Xylene	ND	ug/kg	55.4	10.5	1	05/08/23 14:45	05/09/23 04:31	179601-23-1	
o-Xylene	ND	ug/kg	27.7	6.7	1	05/08/23 14:45	05/09/23 04:31	95-47-6	
Surrogates									
Toluene-d8 (S)	106	%	75-125		1	05/08/23 14:45	05/09/23 04:31	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	05/08/23 14:45	05/09/23 04:31	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	75-125		1	05/08/23 14:45	05/09/23 04:31	2199-69-1	

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-S-MW6-2-3FT-0-230503 **Lab ID:** 10652236003 Collected: 05/03/23 08:15 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974									
Analytical Method: ASTM D2974									
Pace Analytical Services - Minneapolis									
Percent Moisture	6.7	%	0.10	0.10	1		05/11/23 12:20		N2
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Minneapolis									
Acenaphthene	ND	ug/kg	10.6	2.1	1	05/09/23 20:55	05/15/23 18:59	83-32-9	
Acenaphthylene	ND	ug/kg	10.6	1.2	1	05/09/23 20:55	05/15/23 18:59	208-96-8	
Anthracene	ND	ug/kg	10.6	0.97	1	05/09/23 20:55	05/15/23 18:59	120-12-7	
Benzo(a)anthracene	ND	ug/kg	10.6	1.8	1	05/09/23 20:55	05/15/23 18:59	56-55-3	
Benzo(a)pyrene	ND	ug/kg	10.6	1.2	1	05/09/23 20:55	05/15/23 18:59	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	10.6	1.1	1	05/09/23 20:55	05/15/23 18:59	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	10.6	2.0	1	05/09/23 20:55	05/15/23 18:59	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	10.6	1.1	1	05/09/23 20:55	05/15/23 18:59	207-08-9	
Chrysene	ND	ug/kg	10.6	1.1	1	05/09/23 20:55	05/15/23 18:59	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	10.6	1.3	1	05/09/23 20:55	05/15/23 18:59	53-70-3	
Fluoranthene	ND	ug/kg	10.6	0.77	1	05/09/23 20:55	05/15/23 18:59	206-44-0	
Fluorene	ND	ug/kg	10.6	1.2	1	05/09/23 20:55	05/15/23 18:59	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	10.6	0.85	1	05/09/23 20:55	05/15/23 18:59	193-39-5	
Naphthalene	ND	ug/kg	10.6	1.2	1	05/09/23 20:55	05/15/23 18:59	91-20-3	
Phenanthrene	ND	ug/kg	10.6	0.83	1	05/09/23 20:55	05/15/23 18:59	85-01-8	
Pyrene	ND	ug/kg	10.6	1.6	1	05/09/23 20:55	05/15/23 18:59	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	79	%	54-125		1	05/09/23 20:55	05/15/23 18:59	321-60-8	
p-Terphenyl-d14 (S)	87	%	60-125		1	05/09/23 20:55	05/15/23 18:59	1718-51-0	
8260D MSV 5030 Med Level									
Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Minneapolis									
Acetone	ND	ug/kg	860	325	1	05/10/23 09:49	05/10/23 20:08	67-64-1	
Allyl chloride	ND	ug/kg	172	41.0	1	05/10/23 09:49	05/10/23 20:08	107-05-1	
Benzene	ND	ug/kg	17.2	5.2	1	05/10/23 09:49	05/10/23 20:08	71-43-2	
Bromobenzene	ND	ug/kg	43.0	12.8	1	05/10/23 09:49	05/10/23 20:08	108-86-1	
Bromochloromethane	ND	ug/kg	43.0	5.1	1	05/10/23 09:49	05/10/23 20:08	74-97-5	
Bromodichloromethane	ND	ug/kg	43.0	12.4	1	05/10/23 09:49	05/10/23 20:08	75-27-4	
Bromoform	ND	ug/kg	172	70.6	1	05/10/23 09:49	05/10/23 20:08	75-25-2	
Bromomethane	ND	ug/kg	430	76.2	1	05/10/23 09:49	05/10/23 20:08	74-83-9	
2-Butanone (MEK)	ND	ug/kg	215	67.6	1	05/10/23 09:49	05/10/23 20:08	78-93-3	
n-Butylbenzene	ND	ug/kg	43.0	9.0	1	05/10/23 09:49	05/10/23 20:08	104-51-8	
sec-Butylbenzene	ND	ug/kg	43.0	11.7	1	05/10/23 09:49	05/10/23 20:08	135-98-8	
tert-Butylbenzene	ND	ug/kg	43.0	8.0	1	05/10/23 09:49	05/10/23 20:08	98-06-6	
Carbon tetrachloride	ND	ug/kg	43.0	5.7	1	05/10/23 09:49	05/10/23 20:08	56-23-5	
Chlorobenzene	ND	ug/kg	43.0	9.2	1	05/10/23 09:49	05/10/23 20:08	108-90-7	
Chloroethane	ND	ug/kg	430	79.0	1	05/10/23 09:49	05/10/23 20:08	75-00-3	
Chloroform	ND	ug/kg	43.0	10.4	1	05/10/23 09:49	05/10/23 20:08	67-66-3	
Chloromethane	ND	ug/kg	172	32.1	1	05/10/23 09:49	05/10/23 20:08	74-87-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-S-MW6-2-3FT-0-230503 **Lab ID:** 10652236003 Collected: 05/03/23 08:15 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260D MSV 5030 Med Level		Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B							
		Pace Analytical Services - Minneapolis							
2-Chlorotoluene	ND	ug/kg	43.0	9.1	1	05/10/23 09:49	05/10/23 20:08	95-49-8	
4-Chlorotoluene	ND	ug/kg	43.0	5.1	1	05/10/23 09:49	05/10/23 20:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	430	17.9	1	05/10/23 09:49	05/10/23 20:08	96-12-8	
Dibromochloromethane	ND	ug/kg	172	82.9	1	05/10/23 09:49	05/10/23 20:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	43.0	14.5	1	05/10/23 09:49	05/10/23 20:08	106-93-4	
Dibromomethane	ND	ug/kg	43.0	16.6	1	05/10/23 09:49	05/10/23 20:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	43.0	8.6	1	05/10/23 09:49	05/10/23 20:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	43.0	12.5	1	05/10/23 09:49	05/10/23 20:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	43.0	6.9	1	05/10/23 09:49	05/10/23 20:08	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	172	21.9	1	05/10/23 09:49	05/10/23 20:08	75-71-8	
1,1-Dichloroethane	ND	ug/kg	43.0	15.0	1	05/10/23 09:49	05/10/23 20:08	75-34-3	
1,2-Dichloroethane	ND	ug/kg	43.0	14.5	1	05/10/23 09:49	05/10/23 20:08	107-06-2	
1,1-Dichloroethene	ND	ug/kg	43.0	12.0	1	05/10/23 09:49	05/10/23 20:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	43.0	9.5	1	05/10/23 09:49	05/10/23 20:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	43.0	8.1	1	05/10/23 09:49	05/10/23 20:08	156-60-5	
Dichlorofluoromethane	ND	ug/kg	430	20.0	1	05/10/23 09:49	05/10/23 20:08	75-43-4	
1,2-Dichloropropane	ND	ug/kg	43.0	12.1	1	05/10/23 09:49	05/10/23 20:08	78-87-5	
1,3-Dichloropropane	ND	ug/kg	43.0	13.9	1	05/10/23 09:49	05/10/23 20:08	142-28-9	
2,2-Dichloropropane	ND	ug/kg	172	15.7	1	05/10/23 09:49	05/10/23 20:08	594-20-7	
1,1-Dichloropropene	ND	ug/kg	43.0	9.0	1	05/10/23 09:49	05/10/23 20:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	43.0	13.0	1	05/10/23 09:49	05/10/23 20:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	43.0	13.0	1	05/10/23 09:49	05/10/23 20:08	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	172	12.6	1	05/10/23 09:49	05/10/23 20:08	60-29-7	
Ethylbenzene	ND	ug/kg	43.0	7.4	1	05/10/23 09:49	05/10/23 20:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	215	11.5	1	05/10/23 09:49	05/10/23 20:08	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	43.0	10.6	1	05/10/23 09:49	05/10/23 20:08	98-82-8	
p-Isopropyltoluene	ND	ug/kg	43.0	6.1	1	05/10/23 09:49	05/10/23 20:08	99-87-6	
Methylene Chloride	ND	ug/kg	172	71.4	1	05/10/23 09:49	05/10/23 20:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	215	46.5	1	05/10/23 09:49	05/10/23 20:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	43.0	16.4	1	05/10/23 09:49	05/10/23 20:08	1634-04-4	
Naphthalene	ND	ug/kg	172	10.5	1	05/10/23 09:49	05/10/23 20:08	91-20-3	
n-Propylbenzene	ND	ug/kg	43.0	9.8	1	05/10/23 09:49	05/10/23 20:08	103-65-1	
Styrene	ND	ug/kg	43.0	8.3	1	05/10/23 09:49	05/10/23 20:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	43.0	13.9	1	05/10/23 09:49	05/10/23 20:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	43.0	11.4	1	05/10/23 09:49	05/10/23 20:08	79-34-5	
Tetrachloroethene	ND	ug/kg	43.0	7.2	1	05/10/23 09:49	05/10/23 20:08	127-18-4	
Tetrahydrofuran	ND	ug/kg	1720	34.0	1	05/10/23 09:49	05/10/23 20:08	109-99-9	
Toluene	ND	ug/kg	43.0	16.3	1	05/10/23 09:49	05/10/23 20:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	43.0	11.9	1	05/10/23 09:49	05/12/23 19:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	43.0	11.2	1	05/10/23 09:49	05/10/23 20:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	43.0	11.4	1	05/10/23 09:49	05/10/23 20:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	43.0	11.9	1	05/10/23 09:49	05/10/23 20:08	79-00-5	
Trichloroethene	ND	ug/kg	43.0	10.9	1	05/10/23 09:49	05/10/23 20:08	79-01-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-S-MW6-2-3FT-0-230503 **Lab ID:** 10652236003 Collected: 05/03/23 08:15 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260D MSV 5030 Med Level									
Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Minneapolis									
Trichlorofluoromethane	ND	ug/kg	172	17.6	1	05/10/23 09:49	05/10/23 20:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	172	16.7	1	05/10/23 09:49	05/10/23 20:08	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	172	12.1	1	05/10/23 09:49	05/10/23 20:08	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	43.0	9.0	1	05/10/23 09:49	05/10/23 20:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	43.0	5.8	1	05/10/23 09:49	05/10/23 20:08	108-67-8	
Vinyl chloride	ND	ug/kg	17.2	7.6	1	05/10/23 09:49	05/10/23 20:08	75-01-4	
Xylene (Total)	ND	ug/kg	129	16.3	1	05/10/23 09:49	05/10/23 20:08	1330-20-7	
m&p-Xylene	ND	ug/kg	86.0	16.3	1	05/10/23 09:49	05/10/23 20:08	179601-23-1	
o-Xylene	ND	ug/kg	43.0	10.3	1	05/10/23 09:49	05/10/23 20:08	95-47-6	
Surrogates									
Toluene-d8 (S)	108	%	75-125		1	05/10/23 09:49	05/10/23 20:08	2037-26-5	
4-Bromofluorobenzene (S)	106	%	75-125		1	05/10/23 09:49	05/10/23 20:08	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	75-125		1	05/10/23 09:49	05/10/23 20:08	2199-69-1	

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-S-MW6-58-59FT-0-230503 **Lab ID:** 10652236004 **Collected:** 05/03/23 09:25 **Received:** 05/05/23 15:18 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974									
Analytical Method: ASTM D2974									
Pace Analytical Services - Minneapolis									
Percent Moisture	3.4	%	0.10	0.10	1		05/11/23 12:20		N2
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Minneapolis									
Acenaphthene	ND	ug/kg	10.2	2.1	1	05/09/23 20:55	05/15/23 19:18	83-32-9	
Acenaphthylene	ND	ug/kg	10.2	1.1	1	05/09/23 20:55	05/15/23 19:18	208-96-8	
Anthracene	ND	ug/kg	10.2	0.94	1	05/09/23 20:55	05/15/23 19:18	120-12-7	
Benzo(a)anthracene	ND	ug/kg	10.2	1.7	1	05/09/23 20:55	05/15/23 19:18	56-55-3	
Benzo(a)pyrene	ND	ug/kg	10.2	1.2	1	05/09/23 20:55	05/15/23 19:18	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	10.2	1.0	1	05/09/23 20:55	05/15/23 19:18	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	10.2	1.9	1	05/09/23 20:55	05/15/23 19:18	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	10.2	1.0	1	05/09/23 20:55	05/15/23 19:18	207-08-9	
Chrysene	ND	ug/kg	10.2	1.0	1	05/09/23 20:55	05/15/23 19:18	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	10.2	1.2	1	05/09/23 20:55	05/15/23 19:18	53-70-3	
Fluoranthene	ND	ug/kg	10.2	0.74	1	05/09/23 20:55	05/15/23 19:18	206-44-0	
Fluorene	ND	ug/kg	10.2	1.2	1	05/09/23 20:55	05/15/23 19:18	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	10.2	0.82	1	05/09/23 20:55	05/15/23 19:18	193-39-5	
Naphthalene	ND	ug/kg	10.2	1.1	1	05/09/23 20:55	05/15/23 19:18	91-20-3	
Phenanthrene	ND	ug/kg	10.2	0.81	1	05/09/23 20:55	05/15/23 19:18	85-01-8	
Pyrene	ND	ug/kg	10.2	1.6	1	05/09/23 20:55	05/15/23 19:18	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	78	%	54-125		1	05/09/23 20:55	05/15/23 19:18	321-60-8	
p-Terphenyl-d14 (S)	88	%	60-125		1	05/09/23 20:55	05/15/23 19:18	1718-51-0	
8260D MSV 5030 Med Level									
Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Minneapolis									
Acetone	ND	ug/kg	682	258	1	05/10/23 09:49	05/10/23 19:09	67-64-1	
Allyl chloride	ND	ug/kg	136	32.5	1	05/10/23 09:49	05/10/23 19:09	107-05-1	
Benzene	ND	ug/kg	13.6	4.1	1	05/10/23 09:49	05/10/23 19:09	71-43-2	
Bromobenzene	ND	ug/kg	34.1	10.2	1	05/10/23 09:49	05/10/23 19:09	108-86-1	
Bromochloromethane	ND	ug/kg	34.1	4.0	1	05/10/23 09:49	05/10/23 19:09	74-97-5	
Bromodichloromethane	ND	ug/kg	34.1	9.8	1	05/10/23 09:49	05/10/23 19:09	75-27-4	
Bromoform	ND	ug/kg	136	55.9	1	05/10/23 09:49	05/10/23 19:09	75-25-2	
Bromomethane	ND	ug/kg	341	60.4	1	05/10/23 09:49	05/10/23 19:09	74-83-9	
2-Butanone (MEK)	ND	ug/kg	170	53.6	1	05/10/23 09:49	05/10/23 19:09	78-93-3	
n-Butylbenzene	ND	ug/kg	34.1	7.2	1	05/10/23 09:49	05/10/23 19:09	104-51-8	
sec-Butylbenzene	ND	ug/kg	34.1	9.3	1	05/10/23 09:49	05/10/23 19:09	135-98-8	
tert-Butylbenzene	ND	ug/kg	34.1	6.4	1	05/10/23 09:49	05/10/23 19:09	98-06-6	
Carbon tetrachloride	ND	ug/kg	34.1	4.5	1	05/10/23 09:49	05/10/23 19:09	56-23-5	
Chlorobenzene	ND	ug/kg	34.1	7.3	1	05/10/23 09:49	05/10/23 19:09	108-90-7	
Chloroethane	ND	ug/kg	341	62.6	1	05/10/23 09:49	05/10/23 19:09	75-00-3	
Chloroform	ND	ug/kg	34.1	8.3	1	05/10/23 09:49	05/10/23 19:09	67-66-3	
Chloromethane	ND	ug/kg	136	25.4	1	05/10/23 09:49	05/10/23 19:09	74-87-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-S-MW6-58-59FT-0-230503 **Lab ID:** 10652236004 Collected: 05/03/23 09:25 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260D MSV 5030 Med Level Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis									
2-Chlorotoluene	ND	ug/kg	34.1	7.2	1	05/10/23 09:49	05/10/23 19:09	95-49-8	
4-Chlorotoluene	ND	ug/kg	34.1	4.0	1	05/10/23 09:49	05/10/23 19:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	341	14.2	1	05/10/23 09:49	05/10/23 19:09	96-12-8	
Dibromochloromethane	ND	ug/kg	136	65.7	1	05/10/23 09:49	05/10/23 19:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	34.1	11.5	1	05/10/23 09:49	05/10/23 19:09	106-93-4	
Dibromomethane	ND	ug/kg	34.1	13.2	1	05/10/23 09:49	05/10/23 19:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	34.1	6.8	1	05/10/23 09:49	05/10/23 19:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	34.1	9.9	1	05/10/23 09:49	05/10/23 19:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	34.1	5.5	1	05/10/23 09:49	05/10/23 19:09	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	136	17.4	1	05/10/23 09:49	05/10/23 19:09	75-71-8	
1,1-Dichloroethane	ND	ug/kg	34.1	11.9	1	05/10/23 09:49	05/10/23 19:09	75-34-3	
1,2-Dichloroethane	ND	ug/kg	34.1	11.5	1	05/10/23 09:49	05/10/23 19:09	107-06-2	
1,1-Dichloroethene	ND	ug/kg	34.1	9.5	1	05/10/23 09:49	05/10/23 19:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	34.1	7.5	1	05/10/23 09:49	05/10/23 19:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	34.1	6.4	1	05/10/23 09:49	05/10/23 19:09	156-60-5	
Dichlorofluoromethane	ND	ug/kg	341	15.8	1	05/10/23 09:49	05/10/23 19:09	75-43-4	
1,2-Dichloropropane	ND	ug/kg	34.1	9.6	1	05/10/23 09:49	05/10/23 19:09	78-87-5	
1,3-Dichloropropane	ND	ug/kg	34.1	11.0	1	05/10/23 09:49	05/10/23 19:09	142-28-9	
2,2-Dichloropropane	ND	ug/kg	136	12.4	1	05/10/23 09:49	05/10/23 19:09	594-20-7	
1,1-Dichloropropene	ND	ug/kg	34.1	7.2	1	05/10/23 09:49	05/10/23 19:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	34.1	10.3	1	05/10/23 09:49	05/10/23 19:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	34.1	10.3	1	05/10/23 09:49	05/10/23 19:09	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	136	10	1	05/10/23 09:49	05/10/23 19:09	60-29-7	
Ethylbenzene	ND	ug/kg	34.1	5.9	1	05/10/23 09:49	05/10/23 19:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	170	9.1	1	05/10/23 09:49	05/10/23 19:09	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	34.1	8.4	1	05/10/23 09:49	05/10/23 19:09	98-82-8	
p-Isopropyltoluene	ND	ug/kg	34.1	4.9	1	05/10/23 09:49	05/10/23 19:09	99-87-6	
Methylene Chloride	ND	ug/kg	136	56.6	1	05/10/23 09:49	05/10/23 19:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	170	36.9	1	05/10/23 09:49	05/10/23 19:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	34.1	13.0	1	05/10/23 09:49	05/10/23 19:09	1634-04-4	
Naphthalene	ND	ug/kg	136	8.3	1	05/10/23 09:49	05/10/23 19:09	91-20-3	
n-Propylbenzene	ND	ug/kg	34.1	7.8	1	05/10/23 09:49	05/10/23 19:09	103-65-1	
Styrene	ND	ug/kg	34.1	6.6	1	05/10/23 09:49	05/10/23 19:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	34.1	11.0	1	05/10/23 09:49	05/10/23 19:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	34.1	9.1	1	05/10/23 09:49	05/10/23 19:09	79-34-5	
Tetrachloroethene	ND	ug/kg	34.1	5.7	1	05/10/23 09:49	05/10/23 19:09	127-18-4	
Tetrahydrofuran	ND	ug/kg	1360	26.9	1	05/10/23 09:49	05/10/23 19:09	109-99-9	
Toluene	ND	ug/kg	34.1	12.9	1	05/10/23 09:49	05/10/23 19:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	34.1	9.4	1	05/10/23 09:49	05/12/23 17:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	34.1	8.9	1	05/10/23 09:49	05/10/23 19:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	34.1	9.1	1	05/10/23 09:49	05/10/23 19:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	34.1	9.4	1	05/10/23 09:49	05/10/23 19:09	79-00-5	
Trichloroethene	ND	ug/kg	34.1	8.7	1	05/10/23 09:49	05/10/23 19:09	79-01-6	

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-S-MW6-58-59FT-0-230503 **Lab ID:** 10652236004 Collected: 05/03/23 09:25 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report		DF	Prepared	Analyzed	CAS No.	Qual
			Limit	MDL					
8260D MSV 5030 Med Level									
Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Minneapolis									
Trichlorofluoromethane	ND	ug/kg	136	14.0	1	05/10/23 09:49	05/10/23 19:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	136	13.2	1	05/10/23 09:49	05/10/23 19:09	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	136	9.6	1	05/10/23 09:49	05/10/23 19:09	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	34.1	7.2	1	05/10/23 09:49	05/10/23 19:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	34.1	4.6	1	05/10/23 09:49	05/10/23 19:09	108-67-8	
Vinyl chloride	ND	ug/kg	13.6	6.1	1	05/10/23 09:49	05/10/23 19:09	75-01-4	
Xylene (Total)	ND	ug/kg	102	12.9	1	05/10/23 09:49	05/10/23 19:09	1330-20-7	
m&p-Xylene	ND	ug/kg	68.2	12.9	1	05/10/23 09:49	05/10/23 19:09	179601-23-1	
o-Xylene	ND	ug/kg	34.1	8.2	1	05/10/23 09:49	05/10/23 19:09	95-47-6	
Surrogates									
Toluene-d8 (S)	105	%	75-125		1	05/10/23 09:49	05/10/23 19:09	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	05/10/23 09:49	05/10/23 19:09	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	75-125		1	05/10/23 09:49	05/10/23 19:09	2199-69-1	

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-S-MW3-4.5-5.5FT-0-230503 **Lab ID:** 10652236005 **Collected:** 05/03/23 08:15 **Received:** 05/05/23 15:18 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974									
Analytical Method: ASTM D2974									
Pace Analytical Services - Minneapolis									
Percent Moisture	12.1	%	0.10	0.10	1		05/11/23 12:20		N2
8260D MSV 5030 Med Level									
Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Minneapolis									
Acetone	ND	ug/kg	1180	445	1	05/10/23 09:49	05/10/23 17:23	67-64-1	
Allyl chloride	ND	ug/kg	235	56.1	1	05/10/23 09:49	05/10/23 17:23	107-05-1	
Benzene	ND	ug/kg	23.5	7.1	1	05/10/23 09:49	05/10/23 17:23	71-43-2	
Bromobenzene	ND	ug/kg	58.8	17.5	1	05/10/23 09:49	05/10/23 17:23	108-86-1	
Bromochloromethane	ND	ug/kg	58.8	7.0	1	05/10/23 09:49	05/10/23 17:23	74-97-5	
Bromodichloromethane	ND	ug/kg	58.8	16.9	1	05/10/23 09:49	05/10/23 17:23	75-27-4	
Bromoform	ND	ug/kg	235	96.5	1	05/10/23 09:49	05/10/23 17:23	75-25-2	
Bromomethane	ND	ug/kg	588	104	1	05/10/23 09:49	05/10/23 17:23	74-83-9	
2-Butanone (MEK)	ND	ug/kg	294	92.5	1	05/10/23 09:49	05/10/23 17:23	78-93-3	
n-Butylbenzene	ND	ug/kg	58.8	12.4	1	05/10/23 09:49	05/10/23 17:23	104-51-8	
sec-Butylbenzene	ND	ug/kg	58.8	16.0	1	05/10/23 09:49	05/10/23 17:23	135-98-8	
tert-Butylbenzene	ND	ug/kg	58.8	11.0	1	05/10/23 09:49	05/10/23 17:23	98-06-6	
Carbon tetrachloride	ND	ug/kg	58.8	7.8	1	05/10/23 09:49	05/10/23 17:23	56-23-5	
Chlorobenzene	ND	ug/kg	58.8	12.6	1	05/10/23 09:49	05/10/23 17:23	108-90-7	
Chloroethane	ND	ug/kg	588	108	1	05/10/23 09:49	05/10/23 17:23	75-00-3	
Chloroform	ND	ug/kg	58.8	14.2	1	05/10/23 09:49	05/10/23 17:23	67-66-3	
Chloromethane	ND	ug/kg	235	43.9	1	05/10/23 09:49	05/10/23 17:23	74-87-3	
2-Chlorotoluene	ND	ug/kg	58.8	12.5	1	05/10/23 09:49	05/10/23 17:23	95-49-8	
4-Chlorotoluene	ND	ug/kg	58.8	6.9	1	05/10/23 09:49	05/10/23 17:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	588	24.5	1	05/10/23 09:49	05/10/23 17:23	96-12-8	
Dibromochloromethane	ND	ug/kg	235	113	1	05/10/23 09:49	05/10/23 17:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	58.8	19.8	1	05/10/23 09:49	05/10/23 17:23	106-93-4	
Dibromomethane	ND	ug/kg	58.8	22.7	1	05/10/23 09:49	05/10/23 17:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	58.8	11.8	1	05/10/23 09:49	05/10/23 17:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	58.8	17.1	1	05/10/23 09:49	05/10/23 17:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	58.8	9.4	1	05/10/23 09:49	05/10/23 17:23	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	235	30.0	1	05/10/23 09:49	05/10/23 17:23	75-71-8	
1,1-Dichloroethane	ND	ug/kg	58.8	20.5	1	05/10/23 09:49	05/10/23 17:23	75-34-3	
1,2-Dichloroethane	ND	ug/kg	58.8	19.9	1	05/10/23 09:49	05/10/23 17:23	107-06-2	
1,1-Dichloroethene	ND	ug/kg	58.8	16.5	1	05/10/23 09:49	05/10/23 17:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	58.8	12.9	1	05/10/23 09:49	05/10/23 17:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	58.8	11.0	1	05/10/23 09:49	05/10/23 17:23	156-60-5	
Dichlorofluoromethane	ND	ug/kg	588	27.3	1	05/10/23 09:49	05/10/23 17:23	75-43-4	
1,2-Dichloropropane	ND	ug/kg	58.8	16.6	1	05/10/23 09:49	05/10/23 17:23	78-87-5	
1,3-Dichloropropane	ND	ug/kg	58.8	19.1	1	05/10/23 09:49	05/10/23 17:23	142-28-9	
2,2-Dichloropropane	ND	ug/kg	235	21.4	1	05/10/23 09:49	05/10/23 17:23	594-20-7	
1,1-Dichloropropene	ND	ug/kg	58.8	12.4	1	05/10/23 09:49	05/10/23 17:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	58.8	17.8	1	05/10/23 09:49	05/10/23 17:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	58.8	17.8	1	05/10/23 09:49	05/10/23 17:23	10061-02-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-S-MW3-4.5-5.5FT-0-230503 **Lab ID:** 10652236005 Collected: 05/03/23 08:15 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260D MSV 5030 Med Level									
Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Minneapolis									
Diethyl ether (Ethyl ether)	ND	ug/kg	235	17.2	1	05/10/23 09:49	05/10/23 17:23	60-29-7	
Ethylbenzene	ND	ug/kg	58.8	10.1	1	05/10/23 09:49	05/10/23 17:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	294	15.8	1	05/10/23 09:49	05/10/23 17:23	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	58.8	14.5	1	05/10/23 09:49	05/10/23 17:23	98-82-8	
p-Isopropyltoluene	ND	ug/kg	58.8	8.4	1	05/10/23 09:49	05/10/23 17:23	99-87-6	
Methylene Chloride	ND	ug/kg	235	97.6	1	05/10/23 09:49	05/10/23 17:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	294	63.6	1	05/10/23 09:49	05/10/23 17:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	58.8	22.5	1	05/10/23 09:49	05/10/23 17:23	1634-04-4	
Naphthalene	ND	ug/kg	235	14.4	1	05/10/23 09:49	05/10/23 17:23	91-20-3	
n-Propylbenzene	ND	ug/kg	58.8	13.4	1	05/10/23 09:49	05/10/23 17:23	103-65-1	
Styrene	ND	ug/kg	58.8	11.4	1	05/10/23 09:49	05/10/23 17:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	58.8	18.9	1	05/10/23 09:49	05/10/23 17:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	58.8	15.6	1	05/10/23 09:49	05/10/23 17:23	79-34-5	
Tetrachloroethene	ND	ug/kg	58.8	9.9	1	05/10/23 09:49	05/10/23 17:23	127-18-4	
Tetrahydrofuran	ND	ug/kg	2350	46.5	1	05/10/23 09:49	05/10/23 17:23	109-99-9	
Toluene	ND	ug/kg	58.8	22.2	1	05/10/23 09:49	05/10/23 17:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	58.8	16.2	1	05/10/23 09:49	05/12/23 17:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	58.8	15.3	1	05/10/23 09:49	05/10/23 17:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	58.8	15.6	1	05/10/23 09:49	05/10/23 17:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	58.8	16.2	1	05/10/23 09:49	05/10/23 17:23	79-00-5	
Trichloroethene	ND	ug/kg	58.8	14.9	1	05/10/23 09:49	05/10/23 17:23	79-01-6	
Trichlorofluoromethane	ND	ug/kg	235	24.1	1	05/10/23 09:49	05/10/23 17:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	235	22.8	1	05/10/23 09:49	05/10/23 17:23	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	235	16.6	1	05/10/23 09:49	05/10/23 17:23	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	58.8	12.4	1	05/10/23 09:49	05/10/23 17:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	58.8	8.0	1	05/10/23 09:49	05/10/23 17:23	108-67-8	
Vinyl chloride	ND	ug/kg	23.5	10.4	1	05/10/23 09:49	05/10/23 17:23	75-01-4	
Xylene (Total)	ND	ug/kg	176	22.2	1	05/10/23 09:49	05/10/23 17:23	1330-20-7	
m&p-Xylene	ND	ug/kg	118	22.2	1	05/10/23 09:49	05/10/23 17:23	179601-23-1	
o-Xylene	ND	ug/kg	58.8	14.1	1	05/10/23 09:49	05/10/23 17:23	95-47-6	
Surrogates									
Toluene-d8 (S)	108	%	75-125		1	05/10/23 09:49	05/10/23 17:23	2037-26-5	
4-Bromofluorobenzene (S)	106	%	75-125		1	05/10/23 09:49	05/10/23 17:23	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	75-125		1	05/10/23 09:49	05/10/23 17:23	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-S-MW3-12.5-13.5FT-0-23050 **Lab ID:** 10652236006 **Collected:** 05/03/23 08:35 **Received:** 05/05/23 15:18 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974									
Analytical Method: ASTM D2974									
Pace Analytical Services - Minneapolis									
Percent Moisture	7.2	%	0.10	0.10	1		05/11/23 12:20		N2
8260D MSV 5030 Med Level									
Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Minneapolis									
Acetone	ND	ug/kg	991	375	1	05/10/23 09:49	05/10/23 19:53	67-64-1	
Allyl chloride	ND	ug/kg	198	47.3	1	05/10/23 09:49	05/10/23 19:53	107-05-1	
Benzene	ND	ug/kg	19.8	6.0	1	05/10/23 09:49	05/10/23 19:53	71-43-2	
Bromobenzene	ND	ug/kg	49.6	14.8	1	05/10/23 09:49	05/10/23 19:53	108-86-1	
Bromochloromethane	ND	ug/kg	49.6	5.9	1	05/10/23 09:49	05/10/23 19:53	74-97-5	
Bromodichloromethane	ND	ug/kg	49.6	14.3	1	05/10/23 09:49	05/10/23 19:53	75-27-4	
Bromoform	ND	ug/kg	198	81.3	1	05/10/23 09:49	05/10/23 19:53	75-25-2	
Bromomethane	ND	ug/kg	496	87.8	1	05/10/23 09:49	05/10/23 19:53	74-83-9	
2-Butanone (MEK)	ND	ug/kg	248	77.9	1	05/10/23 09:49	05/10/23 19:53	78-93-3	
n-Butylbenzene	ND	ug/kg	49.6	10.4	1	05/10/23 09:49	05/10/23 19:53	104-51-8	
sec-Butylbenzene	ND	ug/kg	49.6	13.5	1	05/10/23 09:49	05/10/23 19:53	135-98-8	
tert-Butylbenzene	ND	ug/kg	49.6	9.3	1	05/10/23 09:49	05/10/23 19:53	98-06-6	
Carbon tetrachloride	ND	ug/kg	49.6	6.6	1	05/10/23 09:49	05/10/23 19:53	56-23-5	
Chlorobenzene	ND	ug/kg	49.6	10.6	1	05/10/23 09:49	05/10/23 19:53	108-90-7	
Chloroethane	ND	ug/kg	496	91.0	1	05/10/23 09:49	05/10/23 19:53	75-00-3	
Chloroform	ND	ug/kg	49.6	12.0	1	05/10/23 09:49	05/10/23 19:53	67-66-3	
Chloromethane	ND	ug/kg	198	37.0	1	05/10/23 09:49	05/10/23 19:53	74-87-3	
2-Chlorotoluene	ND	ug/kg	49.6	10.5	1	05/10/23 09:49	05/10/23 19:53	95-49-8	
4-Chlorotoluene	ND	ug/kg	49.6	5.8	1	05/10/23 09:49	05/10/23 19:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	496	20.6	1	05/10/23 09:49	05/10/23 19:53	96-12-8	
Dibromochloromethane	ND	ug/kg	198	95.5	1	05/10/23 09:49	05/10/23 19:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	49.6	16.7	1	05/10/23 09:49	05/10/23 19:53	106-93-4	
Dibromomethane	ND	ug/kg	49.6	19.1	1	05/10/23 09:49	05/10/23 19:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	49.6	9.9	1	05/10/23 09:49	05/10/23 19:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	49.6	14.4	1	05/10/23 09:49	05/10/23 19:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	49.6	8.0	1	05/10/23 09:49	05/10/23 19:53	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	198	25.3	1	05/10/23 09:49	05/10/23 19:53	75-71-8	
1,1-Dichloroethane	ND	ug/kg	49.6	17.2	1	05/10/23 09:49	05/10/23 19:53	75-34-3	
1,2-Dichloroethane	ND	ug/kg	49.6	16.8	1	05/10/23 09:49	05/10/23 19:53	107-06-2	
1,1-Dichloroethene	ND	ug/kg	49.6	13.9	1	05/10/23 09:49	05/10/23 19:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	49.6	10.9	1	05/10/23 09:49	05/10/23 19:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	49.6	9.3	1	05/10/23 09:49	05/10/23 19:53	156-60-5	
Dichlorofluoromethane	ND	ug/kg	496	23.0	1	05/10/23 09:49	05/10/23 19:53	75-43-4	
1,2-Dichloropropane	ND	ug/kg	49.6	14.0	1	05/10/23 09:49	05/10/23 19:53	78-87-5	
1,3-Dichloropropane	ND	ug/kg	49.6	16.1	1	05/10/23 09:49	05/10/23 19:53	142-28-9	
2,2-Dichloropropane	ND	ug/kg	198	18.0	1	05/10/23 09:49	05/10/23 19:53	594-20-7	
1,1-Dichloropropene	ND	ug/kg	49.6	10.4	1	05/10/23 09:49	05/10/23 19:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	49.6	15.0	1	05/10/23 09:49	05/10/23 19:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	49.6	15.0	1	05/10/23 09:49	05/10/23 19:53	10061-02-6	

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-S-MW3-12.5-13.5FT-0-23050 **Lab ID:** 10652236006 Collected: 05/03/23 08:35 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260D MSV 5030 Med Level									
Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Minneapolis									
Diethyl ether (Ethyl ether)	ND	ug/kg	198	14.5	1	05/10/23 09:49	05/10/23 19:53	60-29-7	
Ethylbenzene	ND	ug/kg	49.6	8.5	1	05/10/23 09:49	05/10/23 19:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	248	13.3	1	05/10/23 09:49	05/10/23 19:53	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	49.6	12.2	1	05/10/23 09:49	05/10/23 19:53	98-82-8	
p-Isopropyltoluene	ND	ug/kg	49.6	7.1	1	05/10/23 09:49	05/10/23 19:53	99-87-6	
Methylene Chloride	ND	ug/kg	198	82.3	1	05/10/23 09:49	05/10/23 19:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	248	53.6	1	05/10/23 09:49	05/10/23 19:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	49.6	18.9	1	05/10/23 09:49	05/10/23 19:53	1634-04-4	
Naphthalene	ND	ug/kg	198	12.1	1	05/10/23 09:49	05/10/23 19:53	91-20-3	
n-Propylbenzene	ND	ug/kg	49.6	11.3	1	05/10/23 09:49	05/10/23 19:53	103-65-1	
Styrene	ND	ug/kg	49.6	9.6	1	05/10/23 09:49	05/10/23 19:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	49.6	16.0	1	05/10/23 09:49	05/10/23 19:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	49.6	13.2	1	05/10/23 09:49	05/10/23 19:53	79-34-5	
Tetrachloroethene	ND	ug/kg	49.6	8.3	1	05/10/23 09:49	05/10/23 19:53	127-18-4	
Tetrahydrofuran	ND	ug/kg	1980	39.2	1	05/10/23 09:49	05/10/23 19:53	109-99-9	
Toluene	ND	ug/kg	49.6	18.7	1	05/10/23 09:49	05/10/23 19:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	49.6	13.7	1	05/10/23 09:49	05/12/23 19:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	49.6	12.9	1	05/10/23 09:49	05/10/23 19:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	49.6	13.2	1	05/10/23 09:49	05/10/23 19:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	49.6	13.7	1	05/10/23 09:49	05/10/23 19:53	79-00-5	
Trichloroethene	ND	ug/kg	49.6	12.6	1	05/10/23 09:49	05/10/23 19:53	79-01-6	
Trichlorofluoromethane	ND	ug/kg	198	20.3	1	05/10/23 09:49	05/10/23 19:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	198	19.2	1	05/10/23 09:49	05/10/23 19:53	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	198	14.0	1	05/10/23 09:49	05/10/23 19:53	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	49.6	10.4	1	05/10/23 09:49	05/10/23 19:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	49.6	6.7	1	05/10/23 09:49	05/10/23 19:53	108-67-8	
Vinyl chloride	ND	ug/kg	19.8	8.8	1	05/10/23 09:49	05/10/23 19:53	75-01-4	
Xylene (Total)	ND	ug/kg	149	18.7	1	05/10/23 09:49	05/10/23 19:53	1330-20-7	
m&p-Xylene	ND	ug/kg	99.1	18.7	1	05/10/23 09:49	05/10/23 19:53	179601-23-1	
o-Xylene	ND	ug/kg	49.6	11.9	1	05/10/23 09:49	05/10/23 19:53	95-47-6	
Surrogates									
Toluene-d8 (S)	106	%	75-125		1	05/10/23 09:49	05/10/23 19:53	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	05/10/23 09:49	05/10/23 19:53	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	75-125		1	05/10/23 09:49	05/10/23 19:53	2199-69-1	

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-S-MW3-59-60FT-0-230503 **Lab ID:** 10652236007 Collected: 05/03/23 11:05 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974									
Analytical Method: ASTM D2974									
Pace Analytical Services - Minneapolis									
Percent Moisture	2.6	%	0.10	0.10	1		05/11/23 12:21		N2
8260D MSV 5030 Med Level									
Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Minneapolis									
Acetone	ND	ug/kg	1060	400	1	05/10/23 09:49	05/10/23 17:38	67-64-1	
Allyl chloride	ND	ug/kg	212	50.5	1	05/10/23 09:49	05/10/23 17:38	107-05-1	
Benzene	ND	ug/kg	21.2	6.4	1	05/10/23 09:49	05/10/23 17:38	71-43-2	
Bromobenzene	ND	ug/kg	53.0	15.8	1	05/10/23 09:49	05/10/23 17:38	108-86-1	
Bromochloromethane	ND	ug/kg	53.0	6.3	1	05/10/23 09:49	05/10/23 17:38	74-97-5	
Bromodichloromethane	ND	ug/kg	53.0	15.3	1	05/10/23 09:49	05/10/23 17:38	75-27-4	
Bromoform	ND	ug/kg	212	86.8	1	05/10/23 09:49	05/10/23 17:38	75-25-2	
Bromomethane	ND	ug/kg	530	93.8	1	05/10/23 09:49	05/10/23 17:38	74-83-9	
2-Butanone (MEK)	ND	ug/kg	265	83.2	1	05/10/23 09:49	05/10/23 17:38	78-93-3	
n-Butylbenzene	ND	ug/kg	53.0	11.1	1	05/10/23 09:49	05/10/23 17:38	104-51-8	
sec-Butylbenzene	ND	ug/kg	53.0	14.4	1	05/10/23 09:49	05/10/23 17:38	135-98-8	
tert-Butylbenzene	ND	ug/kg	53.0	9.9	1	05/10/23 09:49	05/10/23 17:38	98-06-6	
Carbon tetrachloride	ND	ug/kg	53.0	7.0	1	05/10/23 09:49	05/10/23 17:38	56-23-5	
Chlorobenzene	ND	ug/kg	53.0	11.3	1	05/10/23 09:49	05/10/23 17:38	108-90-7	
Chloroethane	ND	ug/kg	530	97.2	1	05/10/23 09:49	05/10/23 17:38	75-00-3	
Chloroform	ND	ug/kg	53.0	12.8	1	05/10/23 09:49	05/10/23 17:38	67-66-3	
Chloromethane	ND	ug/kg	212	39.5	1	05/10/23 09:49	05/10/23 17:38	74-87-3	
2-Chlorotoluene	ND	ug/kg	53.0	11.2	1	05/10/23 09:49	05/10/23 17:38	95-49-8	
4-Chlorotoluene	ND	ug/kg	53.0	6.2	1	05/10/23 09:49	05/10/23 17:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	530	22.0	1	05/10/23 09:49	05/10/23 17:38	96-12-8	
Dibromochloromethane	ND	ug/kg	212	102	1	05/10/23 09:49	05/10/23 17:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	53.0	17.8	1	05/10/23 09:49	05/10/23 17:38	106-93-4	
Dibromomethane	ND	ug/kg	53.0	20.4	1	05/10/23 09:49	05/10/23 17:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	53.0	10.6	1	05/10/23 09:49	05/10/23 17:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	53.0	15.4	1	05/10/23 09:49	05/10/23 17:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	53.0	8.5	1	05/10/23 09:49	05/10/23 17:38	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	212	27.0	1	05/10/23 09:49	05/10/23 17:38	75-71-8	
1,1-Dichloroethane	ND	ug/kg	53.0	18.4	1	05/10/23 09:49	05/10/23 17:38	75-34-3	
1,2-Dichloroethane	ND	ug/kg	53.0	17.9	1	05/10/23 09:49	05/10/23 17:38	107-06-2	
1,1-Dichloroethene	ND	ug/kg	53.0	14.8	1	05/10/23 09:49	05/10/23 17:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	53.0	11.6	1	05/10/23 09:49	05/10/23 17:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	53.0	9.9	1	05/10/23 09:49	05/10/23 17:38	156-60-5	
Dichlorofluoromethane	ND	ug/kg	530	24.6	1	05/10/23 09:49	05/10/23 17:38	75-43-4	
1,2-Dichloropropane	ND	ug/kg	53.0	14.9	1	05/10/23 09:49	05/10/23 17:38	78-87-5	
1,3-Dichloropropane	ND	ug/kg	53.0	17.2	1	05/10/23 09:49	05/10/23 17:38	142-28-9	
2,2-Dichloropropane	ND	ug/kg	212	19.3	1	05/10/23 09:49	05/10/23 17:38	594-20-7	
1,1-Dichloropropene	ND	ug/kg	53.0	11.1	1	05/10/23 09:49	05/10/23 17:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	53.0	16.0	1	05/10/23 09:49	05/10/23 17:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	53.0	16.0	1	05/10/23 09:49	05/10/23 17:38	10061-02-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-S-MW3-59-60FT-0-230503 **Lab ID:** 10652236007 Collected: 05/03/23 11:05 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260D MSV 5030 Med Level									
Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Minneapolis									
Diethyl ether (Ethyl ether)	ND	ug/kg	212	15.5	1	05/10/23 09:49	05/10/23 17:38	60-29-7	
Ethylbenzene	ND	ug/kg	53.0	9.1	1	05/10/23 09:49	05/10/23 17:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	265	14.2	1	05/10/23 09:49	05/10/23 17:38	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	53.0	13.0	1	05/10/23 09:49	05/10/23 17:38	98-82-8	
p-Isopropyltoluene	ND	ug/kg	53.0	7.5	1	05/10/23 09:49	05/10/23 17:38	99-87-6	
Methylene Chloride	ND	ug/kg	212	87.9	1	05/10/23 09:49	05/10/23 17:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	265	57.3	1	05/10/23 09:49	05/10/23 17:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	53.0	20.2	1	05/10/23 09:49	05/10/23 17:38	1634-04-4	
Naphthalene	ND	ug/kg	212	12.9	1	05/10/23 09:49	05/10/23 17:38	91-20-3	
n-Propylbenzene	ND	ug/kg	53.0	12.1	1	05/10/23 09:49	05/10/23 17:38	103-65-1	
Styrene	ND	ug/kg	53.0	10.2	1	05/10/23 09:49	05/10/23 17:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	53.0	17.1	1	05/10/23 09:49	05/10/23 17:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	53.0	14.1	1	05/10/23 09:49	05/10/23 17:38	79-34-5	
Tetrachloroethene	ND	ug/kg	53.0	8.9	1	05/10/23 09:49	05/10/23 17:38	127-18-4	
Tetrahydrofuran	ND	ug/kg	2120	41.8	1	05/10/23 09:49	05/10/23 17:38	109-99-9	
Toluene	ND	ug/kg	53.0	20.0	1	05/10/23 09:49	05/10/23 17:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	53.0	14.6	1	05/10/23 09:49	05/12/23 17:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	53.0	13.8	1	05/10/23 09:49	05/10/23 17:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	53.0	14.1	1	05/10/23 09:49	05/10/23 17:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	53.0	14.6	1	05/10/23 09:49	05/10/23 17:38	79-00-5	
Trichloroethene	ND	ug/kg	53.0	13.5	1	05/10/23 09:49	05/10/23 17:38	79-01-6	
Trichlorofluoromethane	ND	ug/kg	212	21.7	1	05/10/23 09:49	05/10/23 17:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	212	20.5	1	05/10/23 09:49	05/10/23 17:38	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	212	14.9	1	05/10/23 09:49	05/10/23 17:38	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	53.0	11.1	1	05/10/23 09:49	05/10/23 17:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	53.0	7.2	1	05/10/23 09:49	05/10/23 17:38	108-67-8	
Vinyl chloride	ND	ug/kg	21.2	9.4	1	05/10/23 09:49	05/10/23 17:38	75-01-4	
Xylene (Total)	ND	ug/kg	159	20.0	1	05/10/23 09:49	05/10/23 17:38	1330-20-7	
m&p-Xylene	ND	ug/kg	106	20.0	1	05/10/23 09:49	05/10/23 17:38	179601-23-1	
o-Xylene	ND	ug/kg	53.0	12.7	1	05/10/23 09:49	05/10/23 17:38	95-47-6	
Surrogates									
Toluene-d8 (S)	110	%	75-125		1	05/10/23 09:49	05/10/23 17:38	2037-26-5	
4-Bromofluorobenzene (S)	106	%	75-125		1	05/10/23 09:49	05/10/23 17:38	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	75-125		1	05/10/23 09:49	05/10/23 17:38	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-S-SB30-4.5-5.5FT-0-230503 **Lab ID:** 10652236008 **Collected:** 05/03/23 15:15 **Received:** 05/05/23 15:18 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974									
Analytical Method: ASTM D2974									
Pace Analytical Services - Minneapolis									
Percent Moisture	5.0	%	0.10	0.10	1		05/11/23 12:21		N2
8260D MSV 5030 Med Level									
Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Minneapolis									
Acetone	ND	ug/kg	984	372	1	05/10/23 09:49	05/10/23 18:54	67-64-1	
Allyl chloride	ND	ug/kg	197	46.9	1	05/10/23 09:49	05/10/23 18:54	107-05-1	
Benzene	ND	ug/kg	19.7	6.0	1	05/10/23 09:49	05/10/23 18:54	71-43-2	
Bromobenzene	ND	ug/kg	49.2	14.7	1	05/10/23 09:49	05/10/23 18:54	108-86-1	
Bromochloromethane	ND	ug/kg	49.2	5.8	1	05/10/23 09:49	05/10/23 18:54	74-97-5	
Bromodichloromethane	ND	ug/kg	49.2	14.2	1	05/10/23 09:49	05/10/23 18:54	75-27-4	
Bromoform	ND	ug/kg	197	80.7	1	05/10/23 09:49	05/10/23 18:54	75-25-2	
Bromomethane	ND	ug/kg	492	87.2	1	05/10/23 09:49	05/10/23 18:54	74-83-9	
2-Butanone (MEK)	ND	ug/kg	246	77.4	1	05/10/23 09:49	05/10/23 18:54	78-93-3	
n-Butylbenzene	ND	ug/kg	49.2	10.3	1	05/10/23 09:49	05/10/23 18:54	104-51-8	
sec-Butylbenzene	ND	ug/kg	49.2	13.4	1	05/10/23 09:49	05/10/23 18:54	135-98-8	
tert-Butylbenzene	ND	ug/kg	49.2	9.2	1	05/10/23 09:49	05/10/23 18:54	98-06-6	
Carbon tetrachloride	ND	ug/kg	49.2	6.5	1	05/10/23 09:49	05/10/23 18:54	56-23-5	
Chlorobenzene	ND	ug/kg	49.2	10.5	1	05/10/23 09:49	05/10/23 18:54	108-90-7	
Chloroethane	ND	ug/kg	492	90.3	1	05/10/23 09:49	05/10/23 18:54	75-00-3	
Chloroform	ND	ug/kg	49.2	11.9	1	05/10/23 09:49	05/10/23 18:54	67-66-3	
Chloromethane	ND	ug/kg	197	36.7	1	05/10/23 09:49	05/10/23 18:54	74-87-3	
2-Chlorotoluene	ND	ug/kg	49.2	10.4	1	05/10/23 09:49	05/10/23 18:54	95-49-8	
4-Chlorotoluene	ND	ug/kg	49.2	5.8	1	05/10/23 09:49	05/10/23 18:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	492	20.5	1	05/10/23 09:49	05/10/23 18:54	96-12-8	
Dibromochloromethane	ND	ug/kg	197	94.8	1	05/10/23 09:49	05/10/23 18:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	49.2	16.5	1	05/10/23 09:49	05/10/23 18:54	106-93-4	
Dibromomethane	ND	ug/kg	49.2	19.0	1	05/10/23 09:49	05/10/23 18:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	49.2	9.8	1	05/10/23 09:49	05/10/23 18:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	49.2	14.3	1	05/10/23 09:49	05/10/23 18:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	49.2	7.9	1	05/10/23 09:49	05/10/23 18:54	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	197	25.1	1	05/10/23 09:49	05/10/23 18:54	75-71-8	
1,1-Dichloroethane	ND	ug/kg	49.2	17.1	1	05/10/23 09:49	05/10/23 18:54	75-34-3	
1,2-Dichloroethane	ND	ug/kg	49.2	16.6	1	05/10/23 09:49	05/10/23 18:54	107-06-2	
1,1-Dichloroethene	ND	ug/kg	49.2	13.8	1	05/10/23 09:49	05/10/23 18:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	49.2	10.8	1	05/10/23 09:49	05/10/23 18:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	49.2	9.2	1	05/10/23 09:49	05/10/23 18:54	156-60-5	
Dichlorofluoromethane	ND	ug/kg	492	22.8	1	05/10/23 09:49	05/10/23 18:54	75-43-4	
1,2-Dichloropropane	ND	ug/kg	49.2	13.9	1	05/10/23 09:49	05/10/23 18:54	78-87-5	
1,3-Dichloropropane	ND	ug/kg	49.2	15.9	1	05/10/23 09:49	05/10/23 18:54	142-28-9	
2,2-Dichloropropane	ND	ug/kg	197	17.9	1	05/10/23 09:49	05/10/23 18:54	594-20-7	
1,1-Dichloropropene	ND	ug/kg	49.2	10.3	1	05/10/23 09:49	05/10/23 18:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	49.2	14.9	1	05/10/23 09:49	05/10/23 18:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	49.2	14.9	1	05/10/23 09:49	05/10/23 18:54	10061-02-6	

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-S-SB30-4.5-5.5FT-0-230503 **Lab ID:** 10652236008 Collected: 05/03/23 15:15 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260D MSV 5030 Med Level									
Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Minneapolis									
Diethyl ether (Ethyl ether)	ND	ug/kg	197	14.4	1	05/10/23 09:49	05/10/23 18:54	60-29-7	
Ethylbenzene	ND	ug/kg	49.2	8.5	1	05/10/23 09:49	05/10/23 18:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	246	13.2	1	05/10/23 09:49	05/10/23 18:54	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	49.2	12.1	1	05/10/23 09:49	05/10/23 18:54	98-82-8	
p-Isopropyltoluene	ND	ug/kg	49.2	7.0	1	05/10/23 09:49	05/10/23 18:54	99-87-6	
Methylene Chloride	ND	ug/kg	197	81.7	1	05/10/23 09:49	05/10/23 18:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	246	53.2	1	05/10/23 09:49	05/10/23 18:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	49.2	18.8	1	05/10/23 09:49	05/10/23 18:54	1634-04-4	
Naphthalene	ND	ug/kg	197	12.0	1	05/10/23 09:49	05/10/23 18:54	91-20-3	
n-Propylbenzene	ND	ug/kg	49.2	11.2	1	05/10/23 09:49	05/10/23 18:54	103-65-1	
Styrene	ND	ug/kg	49.2	9.5	1	05/10/23 09:49	05/10/23 18:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	49.2	15.8	1	05/10/23 09:49	05/10/23 18:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	49.2	13.1	1	05/10/23 09:49	05/10/23 18:54	79-34-5	
Tetrachloroethene	ND	ug/kg	49.2	8.3	1	05/10/23 09:49	05/10/23 18:54	127-18-4	
Tetrahydrofuran	ND	ug/kg	1970	38.9	1	05/10/23 09:49	05/10/23 18:54	109-99-9	
Toluene	ND	ug/kg	49.2	18.6	1	05/10/23 09:49	05/10/23 18:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	49.2	13.6	1	05/10/23 09:49	05/12/23 18:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	49.2	12.8	1	05/10/23 09:49	05/10/23 18:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	49.2	13.1	1	05/10/23 09:49	05/10/23 18:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	49.2	13.6	1	05/10/23 09:49	05/10/23 18:54	79-00-5	
Trichloroethene	ND	ug/kg	49.2	12.5	1	05/10/23 09:49	05/10/23 18:54	79-01-6	
Trichlorofluoromethane	ND	ug/kg	197	20.2	1	05/10/23 09:49	05/10/23 18:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	197	19.1	1	05/10/23 09:49	05/10/23 18:54	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	197	13.9	1	05/10/23 09:49	05/10/23 18:54	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	49.2	10.3	1	05/10/23 09:49	05/10/23 18:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	49.2	6.7	1	05/10/23 09:49	05/10/23 18:54	108-67-8	
Vinyl chloride	ND	ug/kg	19.7	8.7	1	05/10/23 09:49	05/10/23 18:54	75-01-4	
Xylene (Total)	ND	ug/kg	148	18.6	1	05/10/23 09:49	05/10/23 18:54	1330-20-7	
m&p-Xylene	ND	ug/kg	98.4	18.6	1	05/10/23 09:49	05/10/23 18:54	179601-23-1	
o-Xylene	ND	ug/kg	49.2	11.8	1	05/10/23 09:49	05/10/23 18:54	95-47-6	
Surrogates									
Toluene-d8 (S)	108	%	75-125		1	05/10/23 09:49	05/10/23 18:54	2037-26-5	
4-Bromofluorobenzene (S)	106	%	75-125		1	05/10/23 09:49	05/10/23 18:54	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	75-125		1	05/10/23 09:49	05/10/23 18:54	2199-69-1	

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-S-SB30-12.5-13.5FT-0-2305 **Lab ID:** 10652236009 Collected: 05/03/23 15:30 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974									
Analytical Method: ASTM D2974									
Pace Analytical Services - Minneapolis									
Percent Moisture	8.9	%	0.10	0.10	1		05/11/23 12:21		N2
8260D MSV 5030 Med Level									
Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Minneapolis									
Acetone	ND	ug/kg	1080	409	1	05/10/23 09:49	05/10/23 19:38	67-64-1	
Allyl chloride	ND	ug/kg	216	51.6	1	05/10/23 09:49	05/10/23 19:38	107-05-1	
Benzene	ND	ug/kg	21.6	6.5	1	05/10/23 09:49	05/10/23 19:38	71-43-2	
Bromobenzene	ND	ug/kg	54.0	16.1	1	05/10/23 09:49	05/10/23 19:38	108-86-1	
Bromochloromethane	ND	ug/kg	54.0	6.4	1	05/10/23 09:49	05/10/23 19:38	74-97-5	
Bromodichloromethane	ND	ug/kg	54.0	15.6	1	05/10/23 09:49	05/10/23 19:38	75-27-4	
Bromoform	ND	ug/kg	216	88.6	1	05/10/23 09:49	05/10/23 19:38	75-25-2	
Bromomethane	ND	ug/kg	540	95.8	1	05/10/23 09:49	05/10/23 19:38	74-83-9	
2-Butanone (MEK)	ND	ug/kg	270	84.9	1	05/10/23 09:49	05/10/23 19:38	78-93-3	
n-Butylbenzene	ND	ug/kg	54.0	11.3	1	05/10/23 09:49	05/10/23 19:38	104-51-8	
sec-Butylbenzene	ND	ug/kg	54.0	14.7	1	05/10/23 09:49	05/10/23 19:38	135-98-8	
tert-Butylbenzene	ND	ug/kg	54.0	10.1	1	05/10/23 09:49	05/10/23 19:38	98-06-6	
Carbon tetrachloride	ND	ug/kg	54.0	7.2	1	05/10/23 09:49	05/10/23 19:38	56-23-5	
Chlorobenzene	ND	ug/kg	54.0	11.6	1	05/10/23 09:49	05/10/23 19:38	108-90-7	
Chloroethane	ND	ug/kg	540	99.2	1	05/10/23 09:49	05/10/23 19:38	75-00-3	
Chloroform	ND	ug/kg	54.0	13.1	1	05/10/23 09:49	05/10/23 19:38	67-66-3	
Chloromethane	ND	ug/kg	216	40.3	1	05/10/23 09:49	05/10/23 19:38	74-87-3	
2-Chlorotoluene	ND	ug/kg	54.0	11.5	1	05/10/23 09:49	05/10/23 19:38	95-49-8	
4-Chlorotoluene	ND	ug/kg	54.0	6.4	1	05/10/23 09:49	05/10/23 19:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	540	22.5	1	05/10/23 09:49	05/10/23 19:38	96-12-8	
Dibromochloromethane	ND	ug/kg	216	104	1	05/10/23 09:49	05/10/23 19:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	54.0	18.2	1	05/10/23 09:49	05/10/23 19:38	106-93-4	
Dibromomethane	ND	ug/kg	54.0	20.9	1	05/10/23 09:49	05/10/23 19:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	54.0	10.8	1	05/10/23 09:49	05/10/23 19:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	54.0	15.7	1	05/10/23 09:49	05/10/23 19:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	54.0	8.7	1	05/10/23 09:49	05/10/23 19:38	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	216	27.6	1	05/10/23 09:49	05/10/23 19:38	75-71-8	
1,1-Dichloroethane	ND	ug/kg	54.0	18.8	1	05/10/23 09:49	05/10/23 19:38	75-34-3	
1,2-Dichloroethane	ND	ug/kg	54.0	18.3	1	05/10/23 09:49	05/10/23 19:38	107-06-2	
1,1-Dichloroethene	ND	ug/kg	54.0	15.1	1	05/10/23 09:49	05/10/23 19:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	54.0	11.9	1	05/10/23 09:49	05/10/23 19:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	54.0	10.1	1	05/10/23 09:49	05/10/23 19:38	156-60-5	
Dichlorofluoromethane	ND	ug/kg	540	25.1	1	05/10/23 09:49	05/10/23 19:38	75-43-4	
1,2-Dichloropropane	ND	ug/kg	54.0	15.2	1	05/10/23 09:49	05/10/23 19:38	78-87-5	
1,3-Dichloropropane	ND	ug/kg	54.0	17.5	1	05/10/23 09:49	05/10/23 19:38	142-28-9	
2,2-Dichloropropane	ND	ug/kg	216	19.7	1	05/10/23 09:49	05/10/23 19:38	594-20-7	
1,1-Dichloropropene	ND	ug/kg	54.0	11.3	1	05/10/23 09:49	05/10/23 19:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	54.0	16.3	1	05/10/23 09:49	05/10/23 19:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	54.0	16.3	1	05/10/23 09:49	05/10/23 19:38	10061-02-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-S-SB30-12.5-13.5FT-0-2305 **Lab ID:** 10652236009 Collected: 05/03/23 15:30 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260D MSV 5030 Med Level									
Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Minneapolis									
Diethyl ether (Ethyl ether)	ND	ug/kg	216	15.8	1	05/10/23 09:49	05/10/23 19:38	60-29-7	
Ethylbenzene	ND	ug/kg	54.0	9.3	1	05/10/23 09:49	05/10/23 19:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	270	14.5	1	05/10/23 09:49	05/10/23 19:38	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	54.0	13.3	1	05/10/23 09:49	05/10/23 19:38	98-82-8	
p-Isopropyltoluene	ND	ug/kg	54.0	7.7	1	05/10/23 09:49	05/10/23 19:38	99-87-6	
Methylene Chloride	ND	ug/kg	216	89.7	1	05/10/23 09:49	05/10/23 19:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	270	58.5	1	05/10/23 09:49	05/10/23 19:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	54.0	20.6	1	05/10/23 09:49	05/10/23 19:38	1634-04-4	
Naphthalene	ND	ug/kg	216	13.2	1	05/10/23 09:49	05/10/23 19:38	91-20-3	
n-Propylbenzene	ND	ug/kg	54.0	12.3	1	05/10/23 09:49	05/10/23 19:38	103-65-1	
Styrene	ND	ug/kg	54.0	10.5	1	05/10/23 09:49	05/10/23 19:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	54.0	17.4	1	05/10/23 09:49	05/10/23 19:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	54.0	14.4	1	05/10/23 09:49	05/10/23 19:38	79-34-5	
Tetrachloroethene	ND	ug/kg	54.0	9.1	1	05/10/23 09:49	05/10/23 19:38	127-18-4	
Tetrahydrofuran	ND	ug/kg	2160	42.7	1	05/10/23 09:49	05/10/23 19:38	109-99-9	
Toluene	ND	ug/kg	54.0	20.4	1	05/10/23 09:49	05/10/23 19:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	54.0	14.9	1	05/10/23 09:49	05/12/23 19:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	54.0	14.0	1	05/10/23 09:49	05/10/23 19:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	54.0	14.4	1	05/10/23 09:49	05/10/23 19:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	54.0	14.9	1	05/10/23 09:49	05/10/23 19:38	79-00-5	
Trichloroethene	ND	ug/kg	54.0	13.7	1	05/10/23 09:49	05/10/23 19:38	79-01-6	
Trichlorofluoromethane	ND	ug/kg	216	22.2	1	05/10/23 09:49	05/10/23 19:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	216	21.0	1	05/10/23 09:49	05/10/23 19:38	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	216	15.2	1	05/10/23 09:49	05/10/23 19:38	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	54.0	11.3	1	05/10/23 09:49	05/10/23 19:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	54.0	7.3	1	05/10/23 09:49	05/10/23 19:38	108-67-8	
Vinyl chloride	ND	ug/kg	21.6	9.6	1	05/10/23 09:49	05/10/23 19:38	75-01-4	
Xylene (Total)	ND	ug/kg	162	20.4	1	05/10/23 09:49	05/10/23 19:38	1330-20-7	
m&p-Xylene	ND	ug/kg	108	20.4	1	05/10/23 09:49	05/10/23 19:38	179601-23-1	
o-Xylene	ND	ug/kg	54.0	13.0	1	05/10/23 09:49	05/10/23 19:38	95-47-6	
Surrogates									
Toluene-d8 (S)	108	%	75-125		1	05/10/23 09:49	05/10/23 19:38	2037-26-5	
4-Bromofluorobenzene (S)	106	%	75-125		1	05/10/23 09:49	05/10/23 19:38	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	75-125		1	05/10/23 09:49	05/10/23 19:38	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-S-SB30-19-20FT-0-230503 **Lab ID:** 10652236010 **Collected:** 05/03/23 15:45 **Received:** 05/05/23 15:18 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974									
Analytical Method: ASTM D2974									
Pace Analytical Services - Minneapolis									
Percent Moisture	2.6	%	0.10	0.10	1		05/11/23 12:21		N2
8260D MSV 5030 Med Level									
Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Minneapolis									
Acetone	ND	ug/kg	982	371	1	05/10/23 09:49	05/10/23 17:53	67-64-1	
Allyl chloride	ND	ug/kg	196	46.8	1	05/10/23 09:49	05/10/23 17:53	107-05-1	
Benzene	ND	ug/kg	19.6	6.0	1	05/10/23 09:49	05/10/23 17:53	71-43-2	
Bromobenzene	ND	ug/kg	49.1	14.6	1	05/10/23 09:49	05/10/23 17:53	108-86-1	
Bromochloromethane	ND	ug/kg	49.1	5.8	1	05/10/23 09:49	05/10/23 17:53	74-97-5	
Bromodichloromethane	ND	ug/kg	49.1	14.1	1	05/10/23 09:49	05/10/23 17:53	75-27-4	
Bromoform	ND	ug/kg	196	80.5	1	05/10/23 09:49	05/10/23 17:53	75-25-2	
Bromomethane	ND	ug/kg	491	87.0	1	05/10/23 09:49	05/10/23 17:53	74-83-9	
2-Butanone (MEK)	ND	ug/kg	245	77.2	1	05/10/23 09:49	05/10/23 17:53	78-93-3	
n-Butylbenzene	ND	ug/kg	49.1	10.3	1	05/10/23 09:49	05/10/23 17:53	104-51-8	
sec-Butylbenzene	ND	ug/kg	49.1	13.4	1	05/10/23 09:49	05/10/23 17:53	135-98-8	
tert-Butylbenzene	ND	ug/kg	49.1	9.2	1	05/10/23 09:49	05/10/23 17:53	98-06-6	
Carbon tetrachloride	ND	ug/kg	49.1	6.5	1	05/10/23 09:49	05/10/23 17:53	56-23-5	
Chlorobenzene	ND	ug/kg	49.1	10.5	1	05/10/23 09:49	05/10/23 17:53	108-90-7	
Chloroethane	ND	ug/kg	491	90.1	1	05/10/23 09:49	05/10/23 17:53	75-00-3	
Chloroform	ND	ug/kg	49.1	11.9	1	05/10/23 09:49	05/10/23 17:53	67-66-3	
Chloromethane	ND	ug/kg	196	36.6	1	05/10/23 09:49	05/10/23 17:53	74-87-3	
2-Chlorotoluene	ND	ug/kg	49.1	10.4	1	05/10/23 09:49	05/10/23 17:53	95-49-8	
4-Chlorotoluene	ND	ug/kg	49.1	5.8	1	05/10/23 09:49	05/10/23 17:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	491	20.4	1	05/10/23 09:49	05/10/23 17:53	96-12-8	
Dibromochloromethane	ND	ug/kg	196	94.6	1	05/10/23 09:49	05/10/23 17:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	49.1	16.5	1	05/10/23 09:49	05/10/23 17:53	106-93-4	
Dibromomethane	ND	ug/kg	49.1	19.0	1	05/10/23 09:49	05/10/23 17:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	49.1	9.8	1	05/10/23 09:49	05/10/23 17:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	49.1	14.2	1	05/10/23 09:49	05/10/23 17:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	49.1	7.9	1	05/10/23 09:49	05/10/23 17:53	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	196	25.0	1	05/10/23 09:49	05/10/23 17:53	75-71-8	
1,1-Dichloroethane	ND	ug/kg	49.1	17.1	1	05/10/23 09:49	05/10/23 17:53	75-34-3	
1,2-Dichloroethane	ND	ug/kg	49.1	16.6	1	05/10/23 09:49	05/10/23 17:53	107-06-2	
1,1-Dichloroethene	ND	ug/kg	49.1	13.7	1	05/10/23 09:49	05/10/23 17:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	49.1	10.8	1	05/10/23 09:49	05/10/23 17:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	49.1	9.2	1	05/10/23 09:49	05/10/23 17:53	156-60-5	
Dichlorofluoromethane	ND	ug/kg	491	22.8	1	05/10/23 09:49	05/10/23 17:53	75-43-4	
1,2-Dichloropropane	ND	ug/kg	49.1	13.8	1	05/10/23 09:49	05/10/23 17:53	78-87-5	
1,3-Dichloropropane	ND	ug/kg	49.1	15.9	1	05/10/23 09:49	05/10/23 17:53	142-28-9	
2,2-Dichloropropane	ND	ug/kg	196	17.9	1	05/10/23 09:49	05/10/23 17:53	594-20-7	
1,1-Dichloropropene	ND	ug/kg	49.1	10.3	1	05/10/23 09:49	05/10/23 17:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	49.1	14.8	1	05/10/23 09:49	05/10/23 17:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	49.1	14.8	1	05/10/23 09:49	05/10/23 17:53	10061-02-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-S-SB30-19-20FT-0-230503 **Lab ID:** 10652236010 Collected: 05/03/23 15:45 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260D MSV 5030 Med Level									
Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Minneapolis									
Diethyl ether (Ethyl ether)	ND	ug/kg	196	14.3	1	05/10/23 09:49	05/10/23 17:53	60-29-7	
Ethylbenzene	ND	ug/kg	49.1	8.4	1	05/10/23 09:49	05/10/23 17:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	245	13.2	1	05/10/23 09:49	05/10/23 17:53	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	49.1	12.1	1	05/10/23 09:49	05/10/23 17:53	98-82-8	
p-Isopropyltoluene	ND	ug/kg	49.1	7.0	1	05/10/23 09:49	05/10/23 17:53	99-87-6	
Methylene Chloride	ND	ug/kg	196	81.5	1	05/10/23 09:49	05/10/23 17:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	245	53.1	1	05/10/23 09:49	05/10/23 17:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	49.1	18.8	1	05/10/23 09:49	05/10/23 17:53	1634-04-4	
Naphthalene	ND	ug/kg	196	12.0	1	05/10/23 09:49	05/10/23 17:53	91-20-3	
n-Propylbenzene	ND	ug/kg	49.1	11.2	1	05/10/23 09:49	05/10/23 17:53	103-65-1	
Styrene	ND	ug/kg	49.1	9.5	1	05/10/23 09:49	05/10/23 17:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	49.1	15.8	1	05/10/23 09:49	05/10/23 17:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	49.1	13.1	1	05/10/23 09:49	05/10/23 17:53	79-34-5	
Tetrachloroethene	ND	ug/kg	49.1	8.3	1	05/10/23 09:49	05/10/23 17:53	127-18-4	
Tetrahydrofuran	ND	ug/kg	1960	38.8	1	05/10/23 09:49	05/10/23 17:53	109-99-9	
Toluene	ND	ug/kg	49.1	18.6	1	05/10/23 09:49	05/10/23 17:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	49.1	13.6	1	05/10/23 09:49	05/12/23 18:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	49.1	12.8	1	05/10/23 09:49	05/10/23 17:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	49.1	13.1	1	05/10/23 09:49	05/10/23 17:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	49.1	13.6	1	05/10/23 09:49	05/10/23 17:53	79-00-5	
Trichloroethene	ND	ug/kg	49.1	12.5	1	05/10/23 09:49	05/10/23 17:53	79-01-6	
Trichlorofluoromethane	ND	ug/kg	196	20.1	1	05/10/23 09:49	05/10/23 17:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	196	19.0	1	05/10/23 09:49	05/10/23 17:53	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	196	13.8	1	05/10/23 09:49	05/10/23 17:53	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	49.1	10.3	1	05/10/23 09:49	05/10/23 17:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	49.1	6.6	1	05/10/23 09:49	05/10/23 17:53	108-67-8	
Vinyl chloride	ND	ug/kg	19.6	8.7	1	05/10/23 09:49	05/10/23 17:53	75-01-4	
Xylene (Total)	ND	ug/kg	147	18.6	1	05/10/23 09:49	05/10/23 17:53	1330-20-7	
m&p-Xylene	ND	ug/kg	98.2	18.6	1	05/10/23 09:49	05/10/23 17:53	179601-23-1	
o-Xylene	ND	ug/kg	49.1	11.8	1	05/10/23 09:49	05/10/23 17:53	95-47-6	
Surrogates									
Toluene-d8 (S)	107	%	75-125		1	05/10/23 09:49	05/10/23 17:53	2037-26-5	
4-Bromofluorobenzene (S)	105	%	75-125		1	05/10/23 09:49	05/10/23 17:53	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	75-125		1	05/10/23 09:49	05/10/23 17:53	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-W-FB3-FB-0-230504 Lab ID: 10652236011 Collected: 05/04/23 10:00 Received: 05/05/23 15:18 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C									
Pace Analytical Services - Minneapolis									
Acenaphthene	ND	ug/L	0.31	0.050	1	05/09/23 17:51	05/10/23 15:15	83-32-9	
Acenaphthylene	ND	ug/L	0.31	0.043	1	05/09/23 17:51	05/10/23 15:15	208-96-8	
Anthracene	ND	ug/L	0.31	0.038	1	05/09/23 17:51	05/10/23 15:15	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.31	0.059	1	05/09/23 17:51	05/10/23 15:15	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.31	0.062	1	05/09/23 17:51	05/10/23 15:15	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.31	0.064	1	05/09/23 17:51	05/10/23 15:15	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.31	0.067	1	05/09/23 17:51	05/10/23 15:15	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.31	0.066	1	05/09/23 17:51	05/10/23 15:15	207-08-9	
Chrysene	ND	ug/L	0.31	0.067	1	05/09/23 17:51	05/10/23 15:15	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.31	0.061	1	05/09/23 17:51	05/10/23 15:15	53-70-3	
Fluoranthene	ND	ug/L	0.31	0.097	1	05/09/23 17:51	05/10/23 15:15	206-44-0	
Fluorene	ND	ug/L	0.31	0.048	1	05/09/23 17:51	05/10/23 15:15	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.31	0.078	1	05/09/23 17:51	05/10/23 15:15	193-39-5	
Naphthalene	ND	ug/L	0.31	0.11	1	05/09/23 17:51	05/10/23 15:15	91-20-3	
Phenanthrene	ND	ug/L	0.31	0.11	1	05/09/23 17:51	05/10/23 15:15	85-01-8	
Pyrene	ND	ug/L	0.31	0.070	1	05/09/23 17:51	05/10/23 15:15	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	60	%	49-125		1	05/09/23 17:51	05/10/23 15:15	321-60-8	P1
p-Terphenyl-d14 (S)	90	%	42-125		1	05/09/23 17:51	05/10/23 15:15	1718-51-0	

8260D MSV

Analytical Method: EPA 8260D

Pace Analytical Services - Minneapolis

Acetone	ND	ug/L	10.0	1.9	1		05/09/23 22:27	67-64-1	
Allyl chloride	ND	ug/L	2.5	0.15	1		05/09/23 22:27	107-05-1	
Benzene	ND	ug/L	1.0	0.10	1		05/09/23 22:27	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.12	1		05/09/23 22:27	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.15	1		05/09/23 22:27	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.12	1		05/09/23 22:27	75-27-4	
Bromoform	ND	ug/L	1.0	0.22	1		05/09/23 22:27	75-25-2	
Bromomethane	ND	ug/L	2.5	0.38	1		05/09/23 22:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.93	1		05/09/23 22:27	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.096	1		05/09/23 22:27	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.097	1		05/09/23 22:27	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.091	1		05/09/23 22:27	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.13	1		05/09/23 22:27	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.13	1		05/09/23 22:27	108-90-7	
Chloroethane	ND	ug/L	1.0	0.21	1		05/09/23 22:27	75-00-3	
Chloroform	ND	ug/L	1.0	0.23	1		05/09/23 22:27	67-66-3	
Chloromethane	ND	ug/L	1.0	0.17	1		05/09/23 22:27	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.098	1		05/09/23 22:27	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.12	1		05/09/23 22:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.36	1		05/09/23 22:27	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.20	1		05/09/23 22:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		05/09/23 22:27	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.17	1		05/09/23 22:27	74-95-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-W-FB3-FB-0-230504 Lab ID: 10652236011 Collected: 05/04/23 10:00 Received: 05/05/23 15:18 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260D MSV									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
1,2-Dichlorobenzene	ND	ug/L	1.0	0.13	1		05/09/23 22:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.12	1		05/09/23 22:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.15	1		05/09/23 22:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.079	1		05/09/23 22:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.11	1		05/09/23 22:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.17	1		05/09/23 22:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.13	1		05/09/23 22:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.15	1		05/09/23 22:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.14	1		05/09/23 22:27	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	0.15	1		05/09/23 22:27	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	0.15	1		05/09/23 22:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		05/09/23 22:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.12	1		05/09/23 22:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.12	1		05/09/23 22:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.057	1		05/09/23 22:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/09/23 22:27	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	0.19	1		05/09/23 22:27	60-29-7	
Ethylbenzene	ND	ug/L	1.0	0.11	1		05/09/23 22:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.24	1		05/09/23 22:27	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.12	1		05/09/23 22:27	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.11	1		05/09/23 22:27	99-87-6	
Methylene Chloride	ND	ug/L	1.0	0.33	1		05/09/23 22:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.80	1		05/09/23 22:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.13	1		05/09/23 22:27	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.18	1		05/09/23 22:27	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.11	1		05/09/23 22:27	103-65-1	
Styrene	ND	ug/L	1.0	0.097	1		05/09/23 22:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.19	1		05/09/23 22:27	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		05/09/23 22:27	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		05/09/23 22:27	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1.4	1		05/09/23 22:27	109-99-9	
Toluene	ND	ug/L	1.0	0.10	1		05/09/23 22:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.13	1		05/09/23 22:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.14	1		05/09/23 22:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.12	1		05/09/23 22:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.22	1		05/09/23 22:27	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.12	1		05/09/23 22:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.12	1		05/09/23 22:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.38	1		05/09/23 22:27	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	0.15	1		05/09/23 22:27	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.13	1		05/09/23 22:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.11	1		05/09/23 22:27	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.046	1		05/09/23 22:27	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.20	1		05/09/23 22:27	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.20	1		05/09/23 22:27	179601-23-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-W-FB3-FB-0-230504 **Lab ID: 10652236011** Collected: 05/04/23 10:00 Received: 05/05/23 15:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
o-Xylene	ND	ug/L	1.0	0.18	1		05/09/23 22:27	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	76	%	75-125		1		05/09/23 22:27	2199-69-1	
4-Bromofluorobenzene (S)	75	%	75-125		1		05/09/23 22:27	460-00-4	
Toluene-d8 (S)	103	%	75-125		1		05/09/23 22:27	2037-26-5	

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-W-EB3-EB-0-230504 **Lab ID: 10652236012** Collected: 05/04/23 13:30 Received: 05/05/23 15:18 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C									
Pace Analytical Services - Minneapolis									
Acenaphthene	ND	ug/L	0.35	0.057	1	05/09/23 17:51	05/10/23 15:35	83-32-9	
Acenaphthylene	ND	ug/L	0.35	0.049	1	05/09/23 17:51	05/10/23 15:35	208-96-8	
Anthracene	ND	ug/L	0.35	0.043	1	05/09/23 17:51	05/10/23 15:35	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.35	0.067	1	05/09/23 17:51	05/10/23 15:35	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.35	0.070	1	05/09/23 17:51	05/10/23 15:35	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.35	0.072	1	05/09/23 17:51	05/10/23 15:35	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.35	0.076	1	05/09/23 17:51	05/10/23 15:35	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.35	0.074	1	05/09/23 17:51	05/10/23 15:35	207-08-9	
Chrysene	ND	ug/L	0.35	0.076	1	05/09/23 17:51	05/10/23 15:35	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.35	0.069	1	05/09/23 17:51	05/10/23 15:35	53-70-3	
Fluoranthene	ND	ug/L	0.35	0.11	1	05/09/23 17:51	05/10/23 15:35	206-44-0	
Fluorene	ND	ug/L	0.35	0.054	1	05/09/23 17:51	05/10/23 15:35	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.35	0.089	1	05/09/23 17:51	05/10/23 15:35	193-39-5	
Naphthalene	ND	ug/L	0.35	0.13	1	05/09/23 17:51	05/10/23 15:35	91-20-3	
Phenanthrene	ND	ug/L	0.35	0.12	1	05/09/23 17:51	05/10/23 15:35	85-01-8	
Pyrene	ND	ug/L	0.35	0.079	1	05/09/23 17:51	05/10/23 15:35	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	59	%	49-125		1	05/09/23 17:51	05/10/23 15:35	321-60-8	P1
p-Terphenyl-d14 (S)	89	%	42-125		1	05/09/23 17:51	05/10/23 15:35	1718-51-0	

8260D MSV

Analytical Method: EPA 8260D
Pace Analytical Services - Minneapolis

Acetone	ND	ug/L	10.0	1.9	1		05/09/23 22:43	67-64-1	
Allyl chloride	ND	ug/L	2.5	0.15	1		05/09/23 22:43	107-05-1	
Benzene	ND	ug/L	1.0	0.10	1		05/09/23 22:43	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.12	1		05/09/23 22:43	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.15	1		05/09/23 22:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.12	1		05/09/23 22:43	75-27-4	
Bromoform	ND	ug/L	1.0	0.22	1		05/09/23 22:43	75-25-2	
Bromomethane	ND	ug/L	2.5	0.38	1		05/09/23 22:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.93	1		05/09/23 22:43	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.096	1		05/09/23 22:43	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.097	1		05/09/23 22:43	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.091	1		05/09/23 22:43	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.13	1		05/09/23 22:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.13	1		05/09/23 22:43	108-90-7	
Chloroethane	ND	ug/L	1.0	0.21	1		05/09/23 22:43	75-00-3	
Chloroform	ND	ug/L	1.0	0.23	1		05/09/23 22:43	67-66-3	
Chloromethane	ND	ug/L	1.0	0.17	1		05/09/23 22:43	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.098	1		05/09/23 22:43	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.12	1		05/09/23 22:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.36	1		05/09/23 22:43	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.20	1		05/09/23 22:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		05/09/23 22:43	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.17	1		05/09/23 22:43	74-95-3	

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: **MEWI-W-EB3-EB-0-230504** Lab ID: **10652236012** Collected: 05/04/23 13:30 Received: 05/05/23 15:18 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260D MSV									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
1,2-Dichlorobenzene	ND	ug/L	1.0	0.13	1		05/09/23 22:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.12	1		05/09/23 22:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.15	1		05/09/23 22:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.079	1		05/09/23 22:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.11	1		05/09/23 22:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.17	1		05/09/23 22:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.13	1		05/09/23 22:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.15	1		05/09/23 22:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.14	1		05/09/23 22:43	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	0.15	1		05/09/23 22:43	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	0.15	1		05/09/23 22:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		05/09/23 22:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.12	1		05/09/23 22:43	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.12	1		05/09/23 22:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.057	1		05/09/23 22:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/09/23 22:43	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	0.19	1		05/09/23 22:43	60-29-7	
Ethylbenzene	ND	ug/L	1.0	0.11	1		05/09/23 22:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.24	1		05/09/23 22:43	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.12	1		05/09/23 22:43	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.11	1		05/09/23 22:43	99-87-6	
Methylene Chloride	ND	ug/L	1.0	0.33	1		05/09/23 22:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.80	1		05/09/23 22:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.13	1		05/09/23 22:43	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.18	1		05/09/23 22:43	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.11	1		05/09/23 22:43	103-65-1	
Styrene	ND	ug/L	1.0	0.097	1		05/09/23 22:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.19	1		05/09/23 22:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		05/09/23 22:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		05/09/23 22:43	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1.4	1		05/09/23 22:43	109-99-9	
Toluene	ND	ug/L	1.0	0.10	1		05/09/23 22:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.13	1		05/09/23 22:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.14	1		05/09/23 22:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.12	1		05/09/23 22:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.22	1		05/09/23 22:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.12	1		05/09/23 22:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.12	1		05/09/23 22:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.38	1		05/09/23 22:43	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	0.15	1		05/09/23 22:43	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.13	1		05/09/23 22:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.11	1		05/09/23 22:43	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.046	1		05/09/23 22:43	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.20	1		05/09/23 22:43	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.20	1		05/09/23 22:43	179601-23-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-W-EB3-EB-0-230504 **Lab ID: 10652236012** Collected: 05/04/23 13:30 Received: 05/05/23 15:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
o-Xylene	ND	ug/L	1.0	0.18	1		05/09/23 22:43	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	77	%	75-125		1		05/09/23 22:43	2199-69-1	
4-Bromofluorobenzene (S)	78	%	75-125		1		05/09/23 22:43	460-00-4	
Toluene-d8 (S)	95	%	75-125		1		05/09/23 22:43	2037-26-5	

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-W-TB1-TB Lab ID: 10652236013 Collected: Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level		Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Acetone	ND	ug/kg	1000	378	1	05/11/23 10:29	05/11/23 18:21	67-64-1	
Allyl chloride	ND	ug/kg	200	47.7	1	05/11/23 10:29	05/11/23 18:21	107-05-1	
Benzene	ND	ug/kg	20.0	6.1	1	05/11/23 10:29	05/11/23 18:21	71-43-2	
Bromobenzene	ND	ug/kg	50.0	14.9	1	05/11/23 10:29	05/11/23 18:21	108-86-1	
Bromochloromethane	ND	ug/kg	50.0	5.9	1	05/11/23 10:29	05/11/23 18:21	74-97-5	
Bromodichloromethane	ND	ug/kg	50.0	14.4	1	05/11/23 10:29	05/11/23 18:21	75-27-4	
Bromoform	ND	ug/kg	200	82.0	1	05/11/23 10:29	05/11/23 18:21	75-25-2	
Bromomethane	ND	ug/kg	500	88.6	1	05/11/23 10:29	05/11/23 18:21	74-83-9	
2-Butanone (MEK)	ND	ug/kg	250	78.6	1	05/11/23 10:29	05/11/23 18:21	78-93-3	
n-Butylbenzene	ND	ug/kg	50.0	10.5	1	05/11/23 10:29	05/11/23 18:21	104-51-8	
sec-Butylbenzene	ND	ug/kg	50.0	13.6	1	05/11/23 10:29	05/11/23 18:21	135-98-8	
tert-Butylbenzene	ND	ug/kg	50.0	9.3	1	05/11/23 10:29	05/11/23 18:21	98-06-6	
Carbon tetrachloride	ND	ug/kg	50.0	6.6	1	05/11/23 10:29	05/11/23 18:21	56-23-5	
Chlorobenzene	ND	ug/kg	50.0	10.7	1	05/11/23 10:29	05/11/23 18:21	108-90-7	
Chloroethane	ND	ug/kg	500	91.8	1	05/11/23 10:29	05/11/23 18:21	75-00-3	
Chloroform	ND	ug/kg	50.0	12.1	1	05/11/23 10:29	05/11/23 18:21	67-66-3	
Chloromethane	ND	ug/kg	200	37.3	1	05/11/23 10:29	05/11/23 18:21	74-87-3	
2-Chlorotoluene	ND	ug/kg	50.0	10.6	1	05/11/23 10:29	05/11/23 18:21	95-49-8	
4-Chlorotoluene	ND	ug/kg	50.0	5.9	1	05/11/23 10:29	05/11/23 18:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	500	20.8	1	05/11/23 10:29	05/11/23 18:21	96-12-8	
Dibromochloromethane	ND	ug/kg	200	96.3	1	05/11/23 10:29	05/11/23 18:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	50.0	16.8	1	05/11/23 10:29	05/11/23 18:21	106-93-4	
Dibromomethane	ND	ug/kg	50.0	19.3	1	05/11/23 10:29	05/11/23 18:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	50.0	10.0	1	05/11/23 10:29	05/11/23 18:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	50.0	14.5	1	05/11/23 10:29	05/11/23 18:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	50.0	8.0	1	05/11/23 10:29	05/11/23 18:21	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	200	25.5	1	05/11/23 10:29	05/11/23 18:21	75-71-8	
1,1-Dichloroethane	ND	ug/kg	50.0	17.4	1	05/11/23 10:29	05/11/23 18:21	75-34-3	
1,2-Dichloroethane	ND	ug/kg	50.0	16.9	1	05/11/23 10:29	05/11/23 18:21	107-06-2	
1,1-Dichloroethene	ND	ug/kg	50.0	14.0	1	05/11/23 10:29	05/11/23 18:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	50.0	11.0	1	05/11/23 10:29	05/11/23 18:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	50.0	9.4	1	05/11/23 10:29	05/11/23 18:21	156-60-5	
Dichlorofluoromethane	ND	ug/kg	500	23.2	1	05/11/23 10:29	05/11/23 18:21	75-43-4	
1,2-Dichloropropane	ND	ug/kg	50.0	14.1	1	05/11/23 10:29	05/11/23 18:21	78-87-5	
1,3-Dichloropropane	ND	ug/kg	50.0	16.2	1	05/11/23 10:29	05/11/23 18:21	142-28-9	
2,2-Dichloropropane	ND	ug/kg	200	18.2	1	05/11/23 10:29	05/11/23 18:21	594-20-7	
1,1-Dichloropropene	ND	ug/kg	50.0	10.5	1	05/11/23 10:29	05/11/23 18:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	50.0	15.1	1	05/11/23 10:29	05/11/23 18:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	50.0	15.1	1	05/11/23 10:29	05/11/23 18:21	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	200	14.6	1	05/11/23 10:29	05/11/23 18:21	60-29-7	
Ethylbenzene	ND	ug/kg	50.0	8.6	1	05/11/23 10:29	05/11/23 18:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	250	13.4	1	05/11/23 10:29	05/11/23 18:21	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	50.0	12.3	1	05/11/23 10:29	05/11/23 18:21	98-82-8	
p-Isopropyltoluene	ND	ug/kg	50.0	7.1	1	05/11/23 10:29	05/11/23 18:21	99-87-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Sample: MEWI-W-TB1-TB **Lab ID: 10652236013** Collected: Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level		Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Methylene Chloride	ND	ug/kg	200	83.0	1	05/11/23 10:29	05/11/23 18:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	250	54.1	1	05/11/23 10:29	05/11/23 18:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	50.0	19.1	1	05/11/23 10:29	05/11/23 18:21	1634-04-4	
Naphthalene	ND	ug/kg	200	12.2	1	05/11/23 10:29	05/11/23 18:21	91-20-3	
n-Propylbenzene	ND	ug/kg	50.0	11.4	1	05/11/23 10:29	05/11/23 18:21	103-65-1	
Styrene	ND	ug/kg	50.0	9.7	1	05/11/23 10:29	05/11/23 18:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	50.0	16.1	1	05/11/23 10:29	05/11/23 18:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	50.0	13.3	1	05/11/23 10:29	05/11/23 18:21	79-34-5	
Tetrachloroethene	ND	ug/kg	50.0	8.4	1	05/11/23 10:29	05/11/23 18:21	127-18-4	
Tetrahydrofuran	ND	ug/kg	2000	39.5	1	05/11/23 10:29	05/11/23 18:21	109-99-9	
Toluene	ND	ug/kg	50.0	18.9	1	05/11/23 10:29	05/11/23 18:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	50.0	13.8	1	05/11/23 10:29	05/11/23 18:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	50.0	13.0	1	05/11/23 10:29	05/11/23 18:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	50.0	13.3	1	05/11/23 10:29	05/11/23 18:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	50.0	13.8	1	05/11/23 10:29	05/11/23 18:21	79-00-5	
Trichloroethene	ND	ug/kg	50.0	12.7	1	05/11/23 10:29	05/11/23 18:21	79-01-6	
Trichlorofluoromethane	ND	ug/kg	200	20.5	1	05/11/23 10:29	05/11/23 18:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	200	19.4	1	05/11/23 10:29	05/11/23 18:21	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	200	14.1	1	05/11/23 10:29	05/11/23 18:21	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	50.0	10.5	1	05/11/23 10:29	05/11/23 18:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	50.0	6.8	1	05/11/23 10:29	05/11/23 18:21	108-67-8	
Vinyl chloride	ND	ug/kg	20.0	8.9	1	05/11/23 10:29	05/11/23 18:21	75-01-4	
Xylene (Total)	ND	ug/kg	150	18.9	1	05/11/23 10:29	05/11/23 18:21	1330-20-7	
m&p-Xylene	ND	ug/kg	100	18.9	1	05/11/23 10:29	05/11/23 18:21	179601-23-1	
o-Xylene	ND	ug/kg	50.0	12.0	1	05/11/23 10:29	05/11/23 18:21	95-47-6	
Surrogates									
Toluene-d8 (S)	101	%	75-125		1	05/11/23 10:29	05/11/23 18:21	2037-26-5	
4-Bromofluorobenzene (S)	92	%	75-125		1	05/11/23 10:29	05/11/23 18:21	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	75-125		1	05/11/23 10:29	05/11/23 18:21	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

QC Batch:	880612	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight / %M by ASTM D2974
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10652236001, 10652236002, 10652236003, 10652236004, 10652236005, 10652236006, 10652236007, 10652236008, 10652236009, 10652236010

SAMPLE DUPLICATE: 4641406

Parameter	Units	10652236002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.9	4.8	2	30	N2

SAMPLE DUPLICATE: 4641524

Parameter	Units	10652236010 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	2.6	2.8	8	30	N2

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

QC Batch: 879899

Analysis Method: EPA 8260D

QC Batch Method: EPA 5035/5030B

Analysis Description: 8260D MSV 5030 Med Level

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10652236001, 10652236002

METHOD BLANK: 4638074

Matrix: Solid

Associated Lab Samples: 10652236001, 10652236002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	50.0	16.1	05/09/23 01:16	
1,1,1-Trichloroethane	ug/kg	ND	50.0	13.3	05/09/23 01:16	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	13.3	05/09/23 01:16	
1,1,2-Trichloroethane	ug/kg	ND	50.0	13.8	05/09/23 01:16	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	200	14.1	05/09/23 01:16	
1,1-Dichloroethane	ug/kg	ND	50.0	17.4	05/09/23 01:16	
1,1-Dichloroethene	ug/kg	ND	50.0	14.0	05/09/23 01:16	
1,1-Dichloropropene	ug/kg	ND	50.0	10.5	05/09/23 01:16	
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	13.8	05/09/23 01:16	
1,2,3-Trichloropropane	ug/kg	ND	200	19.4	05/09/23 01:16	
1,2,4-Trichlorobenzene	ug/kg	ND	50.0	13.0	05/09/23 01:16	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	10.5	05/09/23 01:16	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	20.8	05/09/23 01:16	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	16.8	05/09/23 01:16	
1,2-Dichlorobenzene	ug/kg	ND	50.0	10.0	05/09/23 01:16	
1,2-Dichloroethane	ug/kg	ND	50.0	16.9	05/09/23 01:16	
1,2-Dichloropropane	ug/kg	ND	50.0	14.1	05/09/23 01:16	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	6.8	05/09/23 01:16	
1,3-Dichlorobenzene	ug/kg	ND	50.0	14.5	05/09/23 01:16	
1,3-Dichloropropane	ug/kg	ND	50.0	16.2	05/09/23 01:16	
1,4-Dichlorobenzene	ug/kg	ND	50.0	8.0	05/09/23 01:16	
2,2-Dichloropropane	ug/kg	ND	200	18.2	05/09/23 01:16	
2-Butanone (MEK)	ug/kg	ND	250	78.6	05/09/23 01:16	
2-Chlorotoluene	ug/kg	ND	50.0	10.6	05/09/23 01:16	
4-Chlorotoluene	ug/kg	ND	50.0	5.9	05/09/23 01:16	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	54.1	05/09/23 01:16	
Acetone	ug/kg	ND	1000	378	05/09/23 01:16	
Allyl chloride	ug/kg	ND	200	47.7	05/09/23 01:16	
Benzene	ug/kg	ND	20.0	6.1	05/09/23 01:16	
Bromobenzene	ug/kg	ND	50.0	14.9	05/09/23 01:16	
Bromochloromethane	ug/kg	ND	50.0	5.9	05/09/23 01:16	
Bromodichloromethane	ug/kg	ND	50.0	14.4	05/09/23 01:16	
Bromoform	ug/kg	ND	200	82.0	05/09/23 01:16	
Bromomethane	ug/kg	ND	500	88.6	05/09/23 01:16	
Carbon tetrachloride	ug/kg	ND	50.0	6.6	05/09/23 01:16	
Chlorobenzene	ug/kg	ND	50.0	10.7	05/09/23 01:16	
Chloroethane	ug/kg	ND	500	91.8	05/09/23 01:16	
Chloroform	ug/kg	ND	50.0	12.1	05/09/23 01:16	
Chloromethane	ug/kg	ND	200	37.3	05/09/23 01:16	
cis-1,2-Dichloroethene	ug/kg	ND	50.0	11.0	05/09/23 01:16	

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QUALITY CONTROL DATA

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

METHOD BLANK: 4638074

Matrix: Solid

Associated Lab Samples: 10652236001, 10652236002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	ND	50.0	15.1	05/09/23 01:16	
Dibromochloromethane	ug/kg	ND	200	96.3	05/09/23 01:16	
Dibromomethane	ug/kg	ND	50.0	19.3	05/09/23 01:16	
Dichlorodifluoromethane	ug/kg	ND	200	25.5	05/09/23 01:16	
Dichlorofluoromethane	ug/kg	ND	500	23.2	05/09/23 01:16	
Diethyl ether (Ethyl ether)	ug/kg	ND	200	14.6	05/09/23 01:16	
Ethylbenzene	ug/kg	ND	50.0	8.6	05/09/23 01:16	
Hexachloro-1,3-butadiene	ug/kg	ND	250	13.4	05/09/23 01:16	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	12.3	05/09/23 01:16	
m&p-Xylene	ug/kg	ND	100	18.9	05/09/23 01:16	
Methyl-tert-butyl ether	ug/kg	ND	50.0	19.1	05/09/23 01:16	
Methylene Chloride	ug/kg	ND	200	83.0	05/09/23 01:16	
n-Butylbenzene	ug/kg	ND	50.0	10.5	05/09/23 01:16	
n-Propylbenzene	ug/kg	ND	50.0	11.4	05/09/23 01:16	
Naphthalene	ug/kg	ND	200	12.2	05/09/23 01:16	
o-Xylene	ug/kg	ND	50.0	12.0	05/09/23 01:16	
p-Isopropyltoluene	ug/kg	ND	50.0	7.1	05/09/23 01:16	
sec-Butylbenzene	ug/kg	ND	50.0	13.6	05/09/23 01:16	
Styrene	ug/kg	ND	50.0	9.7	05/09/23 01:16	
tert-Butylbenzene	ug/kg	ND	50.0	9.3	05/09/23 01:16	
Tetrachloroethene	ug/kg	ND	50.0	8.4	05/09/23 01:16	
Tetrahydrofuran	ug/kg	ND	2000	39.5	05/09/23 01:16	
Toluene	ug/kg	ND	50.0	18.9	05/09/23 01:16	
trans-1,2-Dichloroethene	ug/kg	ND	50.0	9.4	05/09/23 01:16	
trans-1,3-Dichloropropene	ug/kg	ND	50.0	15.1	05/09/23 01:16	
Trichloroethene	ug/kg	ND	50.0	12.7	05/09/23 01:16	
Trichlorofluoromethane	ug/kg	ND	200	20.5	05/09/23 01:16	
Vinyl chloride	ug/kg	ND	20.0	8.9	05/09/23 01:16	
Xylene (Total)	ug/kg	ND	150	18.9	05/09/23 01:16	
1,2-Dichlorobenzene-d4 (S)	%	98	75-125		05/09/23 01:16	
4-Bromofluorobenzene (S)	%	103	75-125		05/09/23 01:16	
Toluene-d8 (S)	%	108	75-125		05/09/23 01:16	

LABORATORY CONTROL SAMPLE: 4638075

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	1050	105	75-125	
1,1,1-Trichloroethane	ug/kg	1000	1040	104	75-125	
1,1,2,2-Tetrachloroethane	ug/kg	1000	990	99	66-128	
1,1,2-Trichloroethane	ug/kg	1000	1010	101	75-127	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	1030	103	59-125	
1,1-Dichloroethane	ug/kg	1000	994	99	61-125	
1,1-Dichloroethene	ug/kg	1000	991	99	54-125	
1,1-Dichloropropene	ug/kg	1000	1010	101	70-125	

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QUALITY CONTROL DATA

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

LABORATORY CONTROL SAMPLE: 4638075

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/kg	1000	912	91	70-136	
1,2,3-Trichloropropane	ug/kg	1000	928	93	75-125	
1,2,4-Trichlorobenzene	ug/kg	1000	956	96	71-133	
1,2,4-Trimethylbenzene	ug/kg	1000	965	96	75-134	
1,2-Dibromo-3-chloropropane	ug/kg	1000	991	99	73-129	
1,2-Dibromoethane (EDB)	ug/kg	1000	1010	101	75-125	
1,2-Dichlorobenzene	ug/kg	1000	1010	101	75-125	
1,2-Dichloroethane	ug/kg	1000	1020	102	72-125	
1,2-Dichloropropane	ug/kg	1000	1010	101	72-125	
1,3,5-Trimethylbenzene	ug/kg	1000	958	96	75-132	
1,3-Dichlorobenzene	ug/kg	1000	984	98	75-125	
1,3-Dichloropropane	ug/kg	1000	989	99	73-128	
1,4-Dichlorobenzene	ug/kg	1000	983	98	75-125	
2,2-Dichloropropane	ug/kg	1000	906	91	54-125	
2-Butanone (MEK)	ug/kg	5000	5100	102	58-142	
2-Chlorotoluene	ug/kg	1000	949	95	75-128	
4-Chlorotoluene	ug/kg	1000	941	94	75-129	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4690	94	68-139	
Acetone	ug/kg	5000	5030	101	58-131	
Allyl chloride	ug/kg	1000	931	93	30-138	
Benzene	ug/kg	1000	1040	104	72-125	
Bromobenzene	ug/kg	1000	1010	101	75-125	
Bromochloromethane	ug/kg	1000	1030	103	74-125	
Bromodichloromethane	ug/kg	1000	1020	102	73-125	
Bromoform	ug/kg	1000	1030	103	65-125	
Bromomethane	ug/kg	1000	1080	108	30-150	
Carbon tetrachloride	ug/kg	1000	1060	106	70-126	
Chlorobenzene	ug/kg	1000	1010	101	75-125	
Chloroethane	ug/kg	1000	946	95	40-150	
Chloroform	ug/kg	1000	1050	105	75-125	
Chloromethane	ug/kg	1000	984	98	31-150	
cis-1,2-Dichloroethene	ug/kg	1000	1010	101	73-125	
cis-1,3-Dichloropropene	ug/kg	1000	1010	101	70-131	
Dibromochloromethane	ug/kg	1000	1050	105	75-125	
Dibromomethane	ug/kg	1000	1020	102	75-125	
Dichlorodifluoromethane	ug/kg	1000	1060	106	32-150	
Dichlorofluoromethane	ug/kg	1000	1040	104	36-150	
Diethyl ether (Ethyl ether)	ug/kg	1000	1000	100	50-132	
Ethylbenzene	ug/kg	1000	906	91	75-130	
Hexachloro-1,3-butadiene	ug/kg	1000	1020	102	65-141	
Isopropylbenzene (Cumene)	ug/kg	1000	927	93	73-134	
m&p-Xylene	ug/kg	2000	1810	90	75-127	
Methyl-tert-butyl ether	ug/kg	1000	1010	101	70-125	
Methylene Chloride	ug/kg	1000	1110	111	53-128	
n-Butylbenzene	ug/kg	1000	942	94	67-139	
n-Propylbenzene	ug/kg	1000	970	97	71-133	
Naphthalene	ug/kg	1000	931	93	71-141	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

LABORATORY CONTROL SAMPLE: 4638075

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
o-Xylene	ug/kg	1000	942	94	75-125	
p-Isopropyltoluene	ug/kg	1000	956	96	75-136	
sec-Butylbenzene	ug/kg	1000	982	98	75-134	
Styrene	ug/kg	1000	1120	112	59-137	
tert-Butylbenzene	ug/kg	1000	953	95	75-128	
Tetrachloroethene	ug/kg	1000	996	100	73-125	
Tetrahydrofuran	ug/kg	5000	4730	95	69-125	
Toluene	ug/kg	1000	1000	100	75-125	
trans-1,2-Dichloroethene	ug/kg	1000	991	99	60-125	
trans-1,3-Dichloropropene	ug/kg	1000	1020	102	75-132	
Trichloroethene	ug/kg	1000	1060	106	73-125	
Trichlorofluoromethane	ug/kg	1000	1030	103	30-150	
Vinyl chloride	ug/kg	1000	946	95	43-150	
Xylene (Total)	ug/kg	3000	2750	92	75-126	
1,2-Dichlorobenzene-d4 (S)	%			103	75-125	
4-Bromofluorobenzene (S)	%			97	75-125	
Toluene-d8 (S)	%			99	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4638076 4638077

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10652147007 Result	Spike Conc.	Spike Conc.	Result								
1,1,1,2-Tetrachloroethane	ug/kg	ND	1300	1300	1320	1320	102	101	69-126	1	30		
1,1,1-Trichloroethane	ug/kg	ND	1300	1300	1300	1280	100	98	68-125	2	30		
1,1,2,2-Tetrachloroethane	ug/kg	ND	1300	1300	1320	1270	102	98	66-128	4	30		
1,1,2-Trichloroethane	ug/kg	ND	1300	1300	1280	1260	99	97	75-127	2	30		
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1300	1300	1320	1280	102	99	51-136	3	30		
1,1-Dichloroethane	ug/kg	ND	1300	1300	1230	1200	94	92	61-125	2	30		
1,1-Dichloroethene	ug/kg	ND	1300	1300	1280	1250	98	96	48-139	2	30		
1,1-Dichloropropene	ug/kg	ND	1300	1300	1270	1240	98	95	59-130	3	30		
1,2,3-Trichlorobenzene	ug/kg	ND	1300	1300	1250	1210	96	93	70-136	3	30		
1,2,3-Trichloropropane	ug/kg	ND	1300	1300	1270	1230	98	95	75-125	3	30		
1,2,4-Trichlorobenzene	ug/kg	ND	1300	1300	1280	1260	98	97	69-133	1	30		
1,2,4-Trimethylbenzene	ug/kg	ND	1300	1300	1260	1250	97	96	61-135	1	30		
1,2-Dibromo-3-chloropropane	ug/kg	ND	1300	1300	1330	1280	102	98	42-142	4	30		
1,2-Dibromoethane (EDB)	ug/kg	ND	1300	1300	1310	1280	101	98	75-125	2	30		
1,2-Dichlorobenzene	ug/kg	ND	1300	1300	1320	1310	101	100	75-125	1	30		
1,2-Dichloroethane	ug/kg	ND	1300	1300	1270	1240	98	95	69-125	3	30		
1,2-Dichloropropane	ug/kg	ND	1300	1300	1260	1230	96	95	72-125	2	30		
1,3,5-Trimethylbenzene	ug/kg	ND	1300	1300	1260	1240	97	95	65-133	2	30		
1,3-Dichlorobenzene	ug/kg	ND	1300	1300	1280	1270	98	97	75-125	1	30		
1,3-Dichloropropane	ug/kg	ND	1300	1300	1280	1270	98	97	73-128	1	30		
1,4-Dichlorobenzene	ug/kg	ND	1300	1300	1290	1260	99	97	75-125	2	30		
2,2-Dichloropropane	ug/kg	ND	1300	1300	1120	1100	86	84	54-128	2	30		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3M Menomonie /117-7383011

Project No.: 10652236

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4638076 4638077													
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		10652147007 Result	Spike Conc.	Spike Conc.	MS Result								
2-Butanone (MEK)	ug/kg	ND	6520	6520	6650	6590	102	101	58-142	1	30		
2-Chlorotoluene	ug/kg	ND	1300	1300	1240	1200	95	92	74-128	3	30		
4-Chlorotoluene	ug/kg	ND	1300	1300	1230	1200	95	92	75-129	2	30		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	6520	6520	6220	6020	95	92	68-139	3	30		
Acetone	ug/kg	ND	6520	6520	7000	6630	108	102	58-131	5	30		
Allyl chloride	ug/kg	ND	1300	1300	1200	1180	92	91	30-141	2	30		
Benzene	ug/kg	ND	1300	1300	1300	1270	100	97	66-125	3	30		
Bromobenzene	ug/kg	ND	1300	1300	1300	1310	100	100	75-125	1	30		
Bromochloromethane	ug/kg	ND	1300	1300	1280	1300	99	100	74-125	1	30		
Bromodichloromethane	ug/kg	ND	1300	1300	1280	1290	98	99	65-131	0	30		
Bromoform	ug/kg	ND	1300	1300	1340	1310	103	101	50-125	2	30		
Bromomethane	ug/kg	ND	1300	1300	1460	1430	112	110	30-150	2	30		
Carbon tetrachloride	ug/kg	ND	1300	1300	1340	1330	103	102	49-136	1	30		
Chlorobenzene	ug/kg	ND	1300	1300	1270	1270	98	98	75-125	0	30		
Chloroethane	ug/kg	ND	1300	1300	1280	1330	99	102	40-150	4	30		
Chloroform	ug/kg	ND	1300	1300	1320	1300	102	100	73-125	2	30		
Chloromethane	ug/kg	ND	1300	1300	1250	1220	96	94	31-150	2	30		
cis-1,2-Dichloroethene	ug/kg	ND	1300	1300	1270	1260	98	97	67-126	1	30		
cis-1,3-Dichloropropene	ug/kg	ND	1300	1300	1250	1230	96	94	70-131	1	30		
Dibromochloromethane	ug/kg	ND	1300	1300	1360	1330	104	102	52-127	2	30		
Dibromomethane	ug/kg	ND	1300	1300	1320	1290	101	99	72-125	2	30		
Dichlorodifluoromethane	ug/kg	ND	1300	1300	1330	1280	102	98	32-150	3	30		
Dichlorofluoromethane	ug/kg	ND	1300	1300	1370	1400	105	107	36-150	2	30		
Diethyl ether (Ethyl ether)	ug/kg	ND	1300	1300	1230	1210	95	93	50-132	2	30		
Ethylbenzene	ug/kg	ND	1300	1300	1150	1140	88	87	70-130	1	30		
Hexachloro-1,3-butadiene	ug/kg	ND	1300	1300	1290	1280	99	98	62-146	0	30		
Isopropylbenzene (Cumene)	ug/kg	ND	1300	1300	1170	1160	90	89	73-134	1	30		
m&p-Xylene	ug/kg	ND	2600	2600	2280	2260	87	87	69-127	1	30		
Methyl-tert-butyl ether	ug/kg	ND	1300	1300	1280	1250	99	96	67-125	3	30		
Methylene Chloride	ug/kg	ND	1300	1300	1380	1370	101	100	53-128	1	30		
n-Butylbenzene	ug/kg	ND	1300	1300	1230	1190	94	91	64-139	3	30		
n-Propylbenzene	ug/kg	ND	1300	1300	1280	1250	98	96	71-133	2	30		
Naphthalene	ug/kg	ND	1300	1300	1270	1260	98	97	30-150	1	30		
o-Xylene	ug/kg	ND	1300	1300	1190	1190	92	91	70-127	0	30		
p-Isopropyltoluene	ug/kg	ND	1300	1300	1250	1220	96	93	70-136	3	30		
sec-Butylbenzene	ug/kg	ND	1300	1300	1290	1260	99	97	72-134	3	30		
Styrene	ug/kg	ND	1300	1300	1420	1430	109	110	59-137	1	30		
tert-Butylbenzene	ug/kg	ND	1300	1300	1260	1240	96	95	74-128	1	30		
Tetrachloroethene	ug/kg	ND	1300	1300	1290	1270	99	97	63-129	1	30		
Tetrahydrofuran	ug/kg	ND	6520	6520	6340	6200	97	95	66-128	2	30		
Toluene	ug/kg	ND	1300	1300	1250	1240	96	95	69-125	1	30		
trans-1,2-Dichloroethene	ug/kg	ND	1300	1300	1250	1200	96	92	57-130	4	30		
trans-1,3-Dichloropropene	ug/kg	ND	1300	1300	1280	1280	98	98	69-132	0	30		
Trichloroethene	ug/kg	ND	1300	1300	1320	1320	102	101	70-128	1	30		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Parameter	Units	4638076		4638077		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10652147007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Trichlorofluoromethane	ug/kg	ND	1300	1300	1330	1400	102	107	30-150	5	30		
Vinyl chloride	ug/kg	ND	1300	1300	1210	1170	93	90	43-150	3	30		
Xylene (Total)	ug/kg	ND	3900	3900	3470	3450	89	88	68-129	1	30		
1,2-Dichlorobenzene-d4 (S)	%						104	104	75-125				
4-Bromofluorobenzene (S)	%						96	96	75-125				
Toluene-d8 (S)	%						99	99	75-125				

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QUALITY CONTROL DATA

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

QC Batch:	880342	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 5035/5030B	Analysis Description:	8260D MSV 5030 Med Level
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10652236003, 10652236004, 10652236005, 10652236006, 10652236007, 10652236008, 10652236009, 10652236010

METHOD BLANK: 4640002 Matrix: Solid

Associated Lab Samples: 10652236003, 10652236004, 10652236005, 10652236006, 10652236007, 10652236008, 10652236009, 10652236010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	50.0	16.1	05/10/23 13:21	
1,1,1-Trichloroethane	ug/kg	ND	50.0	13.3	05/10/23 13:21	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	13.3	05/10/23 13:21	
1,1,2-Trichloroethane	ug/kg	ND	50.0	13.8	05/10/23 13:21	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	200	14.1	05/10/23 13:21	
1,1-Dichloroethane	ug/kg	ND	50.0	17.4	05/10/23 13:21	
1,1-Dichloroethene	ug/kg	ND	50.0	14.0	05/10/23 13:21	
1,1-Dichloropropene	ug/kg	ND	50.0	10.5	05/10/23 13:21	
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	13.8	05/12/23 14:56	
1,2,3-Trichloropropane	ug/kg	ND	200	19.4	05/10/23 13:21	
1,2,4-Trichlorobenzene	ug/kg	ND	50.0	13.0	05/10/23 13:21	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	10.5	05/10/23 13:21	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	20.8	05/10/23 13:21	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	16.8	05/10/23 13:21	
1,2-Dichlorobenzene	ug/kg	ND	50.0	10.0	05/10/23 13:21	
1,2-Dichloroethane	ug/kg	ND	50.0	16.9	05/10/23 13:21	
1,2-Dichloropropane	ug/kg	ND	50.0	14.1	05/10/23 13:21	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	6.8	05/10/23 13:21	
1,3-Dichlorobenzene	ug/kg	ND	50.0	14.5	05/10/23 13:21	
1,3-Dichloropropane	ug/kg	ND	50.0	16.2	05/10/23 13:21	
1,4-Dichlorobenzene	ug/kg	ND	50.0	8.0	05/10/23 13:21	
2,2-Dichloropropane	ug/kg	ND	200	18.2	05/10/23 13:21	
2-Butanone (MEK)	ug/kg	ND	250	78.6	05/10/23 13:21	
2-Chlorotoluene	ug/kg	ND	50.0	10.6	05/10/23 13:21	
4-Chlorotoluene	ug/kg	ND	50.0	5.9	05/10/23 13:21	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	54.1	05/10/23 13:21	
Acetone	ug/kg	ND	1000	378	05/10/23 13:21	
Allyl chloride	ug/kg	ND	200	47.7	05/10/23 13:21	
Benzene	ug/kg	ND	20.0	6.1	05/10/23 13:21	
Bromobenzene	ug/kg	ND	50.0	14.9	05/10/23 13:21	
Bromochloromethane	ug/kg	ND	50.0	5.9	05/10/23 13:21	
Bromodichloromethane	ug/kg	ND	50.0	14.4	05/10/23 13:21	
Bromoform	ug/kg	ND	200	82.0	05/10/23 13:21	
Bromomethane	ug/kg	ND	500	88.6	05/10/23 13:21	
Carbon tetrachloride	ug/kg	ND	50.0	6.6	05/10/23 13:21	
Chlorobenzene	ug/kg	ND	50.0	10.7	05/10/23 13:21	
Chloroethane	ug/kg	ND	500	91.8	05/10/23 13:21	
Chloroform	ug/kg	ND	50.0	12.1	05/10/23 13:21	
Chloromethane	ug/kg	ND	200	37.3	05/10/23 13:21	

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QUALITY CONTROL DATA

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

METHOD BLANK: 4640002

Matrix: Solid

Associated Lab Samples: 10652236003, 10652236004, 10652236005, 10652236006, 10652236007, 10652236008, 10652236009, 10652236010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/kg	ND	50.0	11.0	05/10/23 13:21	
cis-1,3-Dichloropropene	ug/kg	ND	50.0	15.1	05/10/23 13:21	
Dibromochloromethane	ug/kg	ND	200	96.3	05/10/23 13:21	
Dibromomethane	ug/kg	ND	50.0	19.3	05/10/23 13:21	
Dichlorodifluoromethane	ug/kg	ND	200	25.5	05/10/23 13:21	
Dichlorofluoromethane	ug/kg	ND	500	23.2	05/10/23 13:21	
Diethyl ether (Ethyl ether)	ug/kg	ND	200	14.6	05/10/23 13:21	
Ethylbenzene	ug/kg	ND	50.0	8.6	05/10/23 13:21	
Hexachloro-1,3-butadiene	ug/kg	ND	250	13.4	05/10/23 13:21	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	12.3	05/10/23 13:21	
m&p-Xylene	ug/kg	ND	100	18.9	05/10/23 13:21	
Methyl-tert-butyl ether	ug/kg	ND	50.0	19.1	05/10/23 13:21	
Methylene Chloride	ug/kg	ND	200	83.0	05/10/23 13:21	
n-Butylbenzene	ug/kg	ND	50.0	10.5	05/10/23 13:21	
n-Propylbenzene	ug/kg	ND	50.0	11.4	05/10/23 13:21	
Naphthalene	ug/kg	ND	200	12.2	05/10/23 13:21	
o-Xylene	ug/kg	ND	50.0	12.0	05/10/23 13:21	
p-Isopropyltoluene	ug/kg	ND	50.0	7.1	05/10/23 13:21	
sec-Butylbenzene	ug/kg	ND	50.0	13.6	05/10/23 13:21	
Styrene	ug/kg	ND	50.0	9.7	05/10/23 13:21	
tert-Butylbenzene	ug/kg	ND	50.0	9.3	05/10/23 13:21	
Tetrachloroethene	ug/kg	ND	50.0	8.4	05/10/23 13:21	
Tetrahydrofuran	ug/kg	ND	2000	39.5	05/10/23 13:21	
Toluene	ug/kg	ND	50.0	18.9	05/10/23 13:21	
trans-1,2-Dichloroethene	ug/kg	ND	50.0	9.4	05/10/23 13:21	
trans-1,3-Dichloropropene	ug/kg	ND	50.0	15.1	05/10/23 13:21	
Trichloroethene	ug/kg	ND	50.0	12.7	05/10/23 13:21	
Trichlorofluoromethane	ug/kg	ND	200	20.5	05/10/23 13:21	
Vinyl chloride	ug/kg	ND	20.0	8.9	05/10/23 13:21	
Xylene (Total)	ug/kg	ND	150	18.9	05/10/23 13:21	
1,2-Dichlorobenzene-d4 (S)	%	96	75-125		05/10/23 13:21	
4-Bromofluorobenzene (S)	%	107	75-125		05/10/23 13:21	
Toluene-d8 (S)	%	107	75-125		05/10/23 13:21	

LABORATORY CONTROL SAMPLE & LCSD: 4640003

4640004

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	1090	972	109	97	75-125	11	20	
1,1,1-Trichloroethane	ug/kg	1000	1030	952	103	95	75-125	7	20	
1,1,2,2-Tetrachloroethane	ug/kg	1000	1170	1040	117	104	66-128	12	20	
1,1,2-Trichloroethane	ug/kg	1000	1100	972	110	97	75-127	12	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	1100	1010	110	101	59-125	8	20	
1,1-Dichloroethane	ug/kg	1000	1090	1020	109	102	61-125	7	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

LABORATORY CONTROL SAMPLE & LCSD: 4640003		4640004								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1-Dichloroethene	ug/kg	1000	1080	977	108	98	54-125	10	20	
1,1-Dichloropropene	ug/kg	1000	1100	1020	110	102	70-125	8	20	
1,2,3-Trichlorobenzene	ug/kg	1000	858	818	86	82	70-136	5	20	
1,2,3-Trichloropropane	ug/kg	1000	1070	922	107	92	75-125	15	20	
1,2,4-Trichlorobenzene	ug/kg	1000	983	865	98	87	71-133	13	20	
1,2,4-Trimethylbenzene	ug/kg	1000	1100	948	110	95	75-134	15	20	
1,2-Dibromo-3-chloropropane	ug/kg	1000	1060	924	106	92	73-129	14	20	
1,2-Dibromoethane (EDB)	ug/kg	1000	1100	964	110	96	75-125	14	20	
1,2-Dichlorobenzene	ug/kg	1000	1100	938	110	94	75-125	16	20	
1,2-Dichloroethane	ug/kg	1000	1020	929	102	93	72-125	9	20	
1,2-Dichloropropane	ug/kg	1000	1170	1070	117	107	72-125	8	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1090	948	109	95	75-132	14	20	
1,3-Dichlorobenzene	ug/kg	1000	1090	927	109	93	75-125	16	20	
1,3-Dichloropropane	ug/kg	1000	1130	1040	113	104	73-128	9	20	
1,4-Dichlorobenzene	ug/kg	1000	1070	934	107	93	75-125	13	20	
2,2-Dichloropropane	ug/kg	1000	1070	975	107	97	54-125	9	20	
2-Butanone (MEK)	ug/kg	5000	5490	5490	110	110	58-142	0	20	
2-Chlorotoluene	ug/kg	1000	1090	949	109	95	75-128	14	20	
4-Chlorotoluene	ug/kg	1000	1080	938	108	94	75-129	14	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	5460	5060	109	101	68-139	8	20	
Acetone	ug/kg	5000	5750	5610	115	112	58-131	2	20	
Allyl chloride	ug/kg	1000	1120	1070	112	107	30-138	5	20	
Benzene	ug/kg	1000	1160	1060	116	106	72-125	9	20	
Bromobenzene	ug/kg	1000	1100	958	110	96	75-125	14	20	
Bromochloromethane	ug/kg	1000	1050	972	105	97	74-125	8	20	
Bromodichloromethane	ug/kg	1000	1070	980	107	98	73-125	9	20	
Bromoform	ug/kg	1000	1030	918	103	92	65-125	12	20	
Bromomethane	ug/kg	1000	1110	1030	111	103	30-150	7	20	
Carbon tetrachloride	ug/kg	1000	1030	947	103	95	70-126	9	20	
Chlorobenzene	ug/kg	1000	1090	980	109	98	75-125	11	20	
Chloroethane	ug/kg	1000	851	878	85	88	40-150	3	20	
Chloroform	ug/kg	1000	1090	1010	109	101	75-125	8	20	
Chloromethane	ug/kg	1000	1070	1020	107	102	31-150	5	20	
cis-1,2-Dichloroethene	ug/kg	1000	1080	1000	108	100	73-125	8	20	
cis-1,3-Dichloropropene	ug/kg	1000	1140	1050	114	105	70-131	9	20	
Dibromochloromethane	ug/kg	1000	1080	950	108	95	75-125	13	20	
Dibromomethane	ug/kg	1000	1020	956	102	96	75-125	7	20	
Dichlorodifluoromethane	ug/kg	1000	966	897	97	90	32-150	7	20	
Dichlorofluoromethane	ug/kg	1000	894	916	89	92	36-150	2	20	
Diethyl ether (Ethyl ether)	ug/kg	1000	1150	1080	115	108	50-132	6	20	
Ethylbenzene	ug/kg	1000	1010	897	101	90	75-130	12	20	
Hexachloro-1,3-butadiene	ug/kg	1000	999	910	100	91	65-141	9	20	
Isopropylbenzene (Cumene)	ug/kg	1000	1000	888	100	89	73-134	12	20	
m&p-Xylene	ug/kg	2000	1960	1750	98	88	75-127	11	20	
Methyl-tert-butyl ether	ug/kg	1000	1110	979	111	98	70-125	13	20	
Methylene Chloride	ug/kg	1000	1260	1190	126	119	53-128	6	20	
n-Butylbenzene	ug/kg	1000	1080	934	108	93	67-139	14	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

LABORATORY CONTROL SAMPLE & LCSD: 4640003		4640004								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
n-Propylbenzene	ug/kg	1000	1130	974	113	97	71-133	15	20	
Naphthalene	ug/kg	1000	996	888	100	89	71-141	11	20	
o-Xylene	ug/kg	1000	1020	916	102	92	75-125	11	20	
p-Isopropyltoluene	ug/kg	1000	1070	933	107	93	75-136	14	20	
sec-Butylbenzene	ug/kg	1000	1120	962	112	96	75-134	15	20	
Styrene	ug/kg	1000	1230	1090	123	109	59-137	11	20	
tert-Butylbenzene	ug/kg	1000	1080	923	108	92	75-128	15	20	
Tetrachloroethene	ug/kg	1000	1040	926	104	93	73-125	12	20	
Tetrahydrofuran	ug/kg	5000	5290	5000	106	100	69-125	6	20	
Toluene	ug/kg	1000	1100	1010	110	101	75-125	8	20	
trans-1,2-Dichloroethene	ug/kg	1000	1050	982	105	98	60-125	7	20	
trans-1,3-Dichloropropene	ug/kg	1000	1140	1020	114	102	75-132	11	20	
Trichloroethene	ug/kg	1000	1090	991	109	99	73-125	10	20	
Trichlorofluoromethane	ug/kg	1000	845	903	84	90	30-150	7	20	
Vinyl chloride	ug/kg	1000	1010	946	101	95	43-150	7	20	
Xylene (Total)	ug/kg	3000	2980	2670	99	89	75-126	11	20	
1,2-Dichlorobenzene-d4 (S)	%				103	102	75-125			
4-Bromofluorobenzene (S)	%				99	100	75-125			
Toluene-d8 (S)	%				100	101	75-125			

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QUALITY CONTROL DATA

Project: 3M Menomonie /117-7383011
Pace Project No.: 10652236

QC Batch: 880609 Analysis Method: EPA 8260D
QC Batch Method: EPA 5035/5030B Analysis Description: 8260D MSV 5030 Med Level
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10652236013

METHOD BLANK: 4641221 Matrix: Solid

Associated Lab Samples: 10652236013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	50.0	16.1	05/11/23 17:31	
1,1,1-Trichloroethane	ug/kg	ND	50.0	13.3	05/11/23 17:31	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	13.3	05/11/23 17:31	
1,1,2-Trichloroethane	ug/kg	ND	50.0	13.8	05/11/23 17:31	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	200	14.1	05/11/23 17:31	
1,1-Dichloroethane	ug/kg	ND	50.0	17.4	05/11/23 17:31	
1,1-Dichloroethene	ug/kg	ND	50.0	14.0	05/11/23 17:31	
1,1-Dichloropropene	ug/kg	ND	50.0	10.5	05/11/23 17:31	
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	13.8	05/11/23 17:31	
1,2,3-Trichloropropane	ug/kg	ND	200	19.4	05/11/23 17:31	
1,2,4-Trichlorobenzene	ug/kg	ND	50.0	13.0	05/11/23 17:31	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	10.5	05/11/23 17:31	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	20.8	05/11/23 17:31	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	16.8	05/11/23 17:31	
1,2-Dichlorobenzene	ug/kg	ND	50.0	10.0	05/11/23 17:31	
1,2-Dichloroethane	ug/kg	ND	50.0	16.9	05/11/23 17:31	
1,2-Dichloropropane	ug/kg	ND	50.0	14.1	05/11/23 17:31	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	6.8	05/11/23 17:31	
1,3-Dichlorobenzene	ug/kg	ND	50.0	14.5	05/11/23 17:31	
1,3-Dichloropropane	ug/kg	ND	50.0	16.2	05/11/23 17:31	
1,4-Dichlorobenzene	ug/kg	ND	50.0	8.0	05/11/23 17:31	
2,2-Dichloropropane	ug/kg	ND	200	18.2	05/11/23 17:31	
2-Butanone (MEK)	ug/kg	ND	250	78.6	05/11/23 17:31	
2-Chlorotoluene	ug/kg	ND	50.0	10.6	05/11/23 17:31	
4-Chlorotoluene	ug/kg	ND	50.0	5.9	05/11/23 17:31	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	54.1	05/11/23 17:31	
Acetone	ug/kg	ND	1000	378	05/11/23 17:31	
Allyl chloride	ug/kg	ND	200	47.7	05/11/23 17:31	
Benzene	ug/kg	ND	20.0	6.1	05/11/23 17:31	
Bromobenzene	ug/kg	ND	50.0	14.9	05/11/23 17:31	
Bromochloromethane	ug/kg	ND	50.0	5.9	05/11/23 17:31	
Bromodichloromethane	ug/kg	ND	50.0	14.4	05/11/23 17:31	
Bromoform	ug/kg	ND	200	82.0	05/11/23 17:31	
Bromomethane	ug/kg	ND	500	88.6	05/11/23 17:31	
Carbon tetrachloride	ug/kg	ND	50.0	6.6	05/11/23 17:31	
Chlorobenzene	ug/kg	ND	50.0	10.7	05/11/23 17:31	
Chloroethane	ug/kg	ND	500	91.8	05/11/23 17:31	
Chloroform	ug/kg	ND	50.0	12.1	05/11/23 17:31	
Chloromethane	ug/kg	ND	200	37.3	05/11/23 17:31	
cis-1,2-Dichloroethene	ug/kg	ND	50.0	11.0	05/11/23 17:31	

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QUALITY CONTROL DATA

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

METHOD BLANK: 4641221

Matrix: Solid

Associated Lab Samples: 10652236013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	ND	50.0	15.1	05/11/23 17:31	
Dibromochloromethane	ug/kg	ND	200	96.3	05/11/23 17:31	
Dibromomethane	ug/kg	ND	50.0	19.3	05/11/23 17:31	
Dichlorodifluoromethane	ug/kg	ND	200	25.5	05/11/23 17:31	
Dichlorofluoromethane	ug/kg	ND	500	23.2	05/11/23 17:31	
Diethyl ether (Ethyl ether)	ug/kg	ND	200	14.6	05/11/23 17:31	
Ethylbenzene	ug/kg	ND	50.0	8.6	05/11/23 17:31	
Hexachloro-1,3-butadiene	ug/kg	ND	250	13.4	05/11/23 17:31	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	12.3	05/11/23 17:31	
m&p-Xylene	ug/kg	ND	100	18.9	05/11/23 17:31	
Methyl-tert-butyl ether	ug/kg	ND	50.0	19.1	05/11/23 17:31	
Methylene Chloride	ug/kg	ND	200	83.0	05/11/23 17:31	
n-Butylbenzene	ug/kg	ND	50.0	10.5	05/11/23 17:31	
n-Propylbenzene	ug/kg	ND	50.0	11.4	05/11/23 17:31	
Naphthalene	ug/kg	ND	200	12.2	05/11/23 17:31	
o-Xylene	ug/kg	ND	50.0	12.0	05/11/23 17:31	
p-Isopropyltoluene	ug/kg	ND	50.0	7.1	05/11/23 17:31	
sec-Butylbenzene	ug/kg	ND	50.0	13.6	05/11/23 17:31	
Styrene	ug/kg	ND	50.0	9.7	05/11/23 17:31	
tert-Butylbenzene	ug/kg	ND	50.0	9.3	05/11/23 17:31	
Tetrachloroethene	ug/kg	ND	50.0	8.4	05/11/23 17:31	
Tetrahydrofuran	ug/kg	ND	2000	39.5	05/11/23 17:31	
Toluene	ug/kg	ND	50.0	18.9	05/11/23 17:31	
trans-1,2-Dichloroethene	ug/kg	ND	50.0	9.4	05/11/23 17:31	
trans-1,3-Dichloropropene	ug/kg	ND	50.0	15.1	05/11/23 17:31	
Trichloroethene	ug/kg	ND	50.0	12.7	05/11/23 17:31	
Trichlorofluoromethane	ug/kg	ND	200	20.5	05/11/23 17:31	
Vinyl chloride	ug/kg	ND	20.0	8.9	05/11/23 17:31	
Xylene (Total)	ug/kg	ND	150	18.9	05/11/23 17:31	
1,2-Dichlorobenzene-d4 (S)	%	96	75-125		05/11/23 17:31	
4-Bromofluorobenzene (S)	%	92	75-125		05/11/23 17:31	
Toluene-d8 (S)	%	101	75-125		05/11/23 17:31	

LABORATORY CONTROL SAMPLE & LCSD: 4641222

4641223

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	948	882	95	88	75-125	7	20	
1,1,1-Trichloroethane	ug/kg	1000	954	887	95	89	75-125	7	20	
1,1,2,2-Tetrachloroethane	ug/kg	1000	952	929	95	93	66-128	2	20	
1,1,2-Trichloroethane	ug/kg	1000	902	849	90	85	75-127	6	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	865	815	87	81	59-125	6	20	
1,1-Dichloroethane	ug/kg	1000	899	861	90	86	61-125	4	20	
1,1-Dichloroethene	ug/kg	1000	940	844	94	84	54-125	11	20	
1,1-Dichloropropene	ug/kg	1000	902	879	90	88	70-125	3	20	

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QUALITY CONTROL DATA

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

LABORATORY CONTROL SAMPLE & LCSD:		4641222	4641223		LCS	LCSD	% Rec		Max	
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,2,3-Trichlorobenzene	ug/kg	1000	942	879	94	88	70-136	7	20	
1,2,3-Trichloropropane	ug/kg	1000	943	934	94	93	75-125	1	20	
1,2,4-Trichlorobenzene	ug/kg	1000	950	900	95	90	71-133	5	20	
1,2,4-Trimethylbenzene	ug/kg	1000	930	881	93	88	75-134	6	20	
1,2-Dibromo-3-chloropropane	ug/kg	1000	868	874	87	87	73-129	1	20	
1,2-Dibromoethane (EDB)	ug/kg	1000	963	899	96	90	75-125	7	20	
1,2-Dichlorobenzene	ug/kg	1000	897	875	90	88	75-125	2	20	
1,2-Dichloroethane	ug/kg	1000	933	889	93	89	72-125	5	20	
1,2-Dichloropropane	ug/kg	1000	901	860	90	86	72-125	5	20	
1,3,5-Trimethylbenzene	ug/kg	1000	945	888	95	89	75-132	6	20	
1,3-Dichlorobenzene	ug/kg	1000	948	898	95	90	75-125	5	20	
1,3-Dichloropropane	ug/kg	1000	961	895	96	90	73-128	7	20	
1,4-Dichlorobenzene	ug/kg	1000	931	878	93	88	75-125	6	20	
2,2-Dichloropropane	ug/kg	1000	850	835	85	83	54-125	2	20	
2-Butanone (MEK)	ug/kg	5000	4910	4890	98	98	58-142	0	20	
2-Chlorotoluene	ug/kg	1000	937	907	94	91	75-128	3	20	
4-Chlorotoluene	ug/kg	1000	931	864	93	86	75-129	7	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	5210	4710	104	94	68-139	10	20	
Acetone	ug/kg	5000	4850	4410	97	88	58-131	9	20	
Allyl chloride	ug/kg	1000	824	803	82	80	30-138	3	20	
Benzene	ug/kg	1000	927	878	93	88	72-125	5	20	
Bromobenzene	ug/kg	1000	907	871	91	87	75-125	4	20	
Bromochloromethane	ug/kg	1000	881	843	88	84	74-125	4	20	
Bromodichloromethane	ug/kg	1000	880	881	88	88	73-125	0	20	
Bromoform	ug/kg	1000	902	878	90	88	65-125	3	20	
Bromomethane	ug/kg	1000	1110	1090	111	109	30-150	1	20	
Carbon tetrachloride	ug/kg	1000	887	890	89	89	70-126	0	20	
Chlorobenzene	ug/kg	1000	941	890	94	89	75-125	6	20	
Chloroethane	ug/kg	1000	957	831	96	83	40-150	14	20	
Chloroform	ug/kg	1000	933	887	93	89	75-125	5	20	
Chloromethane	ug/kg	1000	970	917	97	92	31-150	6	20	
cis-1,2-Dichloroethene	ug/kg	1000	838	804	84	80	73-125	4	20	
cis-1,3-Dichloropropene	ug/kg	1000	873	833	87	83	70-131	5	20	
Dibromochloromethane	ug/kg	1000	955	947	95	95	75-125	1	20	
Dibromomethane	ug/kg	1000	885	885	89	88	75-125	0	20	
Dichlorodifluoromethane	ug/kg	1000	908	809	91	81	32-150	12	20	
Dichlorofluoromethane	ug/kg	1000	937	902	94	90	36-150	4	20	
Diethyl ether (Ethyl ether)	ug/kg	1000	985	937	98	94	50-132	5	20	
Ethylbenzene	ug/kg	1000	968	914	97	91	75-130	6	20	
Hexachloro-1,3-butadiene	ug/kg	1000	974	997	97	100	65-141	2	20	
Isopropylbenzene (Cumene)	ug/kg	1000	982	913	98	91	73-134	7	20	
m&p-Xylene	ug/kg	2000	1890	1730	95	86	75-127	9	20	
Methyl-tert-butyl ether	ug/kg	1000	903	864	90	86	70-125	5	20	
Methylene Chloride	ug/kg	1000	837	802	84	80	53-128	4	20	
n-Butylbenzene	ug/kg	1000	909	855	91	85	67-139	6	20	
n-Propylbenzene	ug/kg	1000	946	876	95	88	71-133	8	20	
Naphthalene	ug/kg	1000	977	929	98	93	71-141	5	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Parameter	Units	LABORATORY CONTROL SAMPLE & LCSD: 4641222		4641223			% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
o-Xylene	ug/kg	1000	914	861	91	86	75-125	6	20	
p-Isopropyltoluene	ug/kg	1000	941	895	94	90	75-136	5	20	
sec-Butylbenzene	ug/kg	1000	947	903	95	90	75-134	5	20	
Styrene	ug/kg	1000	933	857	93	86	59-137	8	20	
tert-Butylbenzene	ug/kg	1000	913	873	91	87	75-128	4	20	
Tetrachloroethene	ug/kg	1000	970	860	97	86	73-125	12	20	
Tetrahydrofuran	ug/kg	5000	4870	4900	97	98	69-125	1	20	
Toluene	ug/kg	1000	920	878	92	88	75-125	5	20	
trans-1,2-Dichloroethene	ug/kg	1000	858	839	86	84	60-125	2	20	
trans-1,3-Dichloropropene	ug/kg	1000	927	846	93	85	75-132	9	20	
Trichloroethene	ug/kg	1000	869	835	87	84	73-125	4	20	
Trichlorofluoromethane	ug/kg	1000	898	991	90	99	30-150	10	20	
Vinyl chloride	ug/kg	1000	929	818	93	82	43-150	13	20	
Xylene (Total)	ug/kg	3000	2810	2590	94	86	75-126	8	20	
1,2-Dichlorobenzene-d4 (S)	%				98	97	75-125			
4-Bromofluorobenzene (S)	%				102	97	75-125			
Toluene-d8 (S)	%				96	98	75-125			

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QUALITY CONTROL DATA

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

QC Batch: 880177

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260D MSV

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10652236011, 10652236012

METHOD BLANK: 4639265

Matrix: Water

Associated Lab Samples: 10652236011, 10652236012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	0.19	05/09/23 21:39	
1,1,1-Trichloroethane	ug/L	ND	1.0	0.12	05/09/23 21:39	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	05/09/23 21:39	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.22	05/09/23 21:39	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	0.15	05/09/23 21:39	
1,1-Dichloroethane	ug/L	ND	1.0	0.11	05/09/23 21:39	
1,1-Dichloroethene	ug/L	ND	1.0	0.13	05/09/23 21:39	
1,1-Dichloropropene	ug/L	ND	1.0	0.12	05/09/23 21:39	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	0.13	05/09/23 21:39	
1,2,3-Trichloropropane	ug/L	ND	2.5	0.38	05/09/23 21:39	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.14	05/09/23 21:39	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	0.13	05/09/23 21:39	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	0.36	05/09/23 21:39	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	0.20	05/09/23 21:39	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.13	05/09/23 21:39	
1,2-Dichloroethane	ug/L	ND	1.0	0.17	05/09/23 21:39	
1,2-Dichloropropane	ug/L	ND	1.0	0.15	05/09/23 21:39	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	0.11	05/09/23 21:39	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.12	05/09/23 21:39	
1,3-Dichloropropane	ug/L	ND	1.0	0.16	05/09/23 21:39	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.15	05/09/23 21:39	
2,2-Dichloropropane	ug/L	ND	1.0	0.12	05/09/23 21:39	
2-Butanone (MEK)	ug/L	ND	10.0	0.93	05/09/23 21:39	
2-Chlorotoluene	ug/L	ND	1.0	0.098	05/09/23 21:39	
4-Chlorotoluene	ug/L	ND	1.0	0.12	05/09/23 21:39	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.80	05/09/23 21:39	
Acetone	ug/L	ND	10.0	1.9	05/09/23 21:39	
Allyl chloride	ug/L	ND	2.5	0.15	05/09/23 21:39	
Benzene	ug/L	ND	1.0	0.10	05/09/23 21:39	
Bromobenzene	ug/L	ND	1.0	0.12	05/09/23 21:39	
Bromochloromethane	ug/L	ND	1.0	0.15	05/09/23 21:39	
Bromodichloromethane	ug/L	ND	1.0	0.12	05/09/23 21:39	
Bromoform	ug/L	ND	1.0	0.22	05/09/23 21:39	
Bromomethane	ug/L	ND	2.5	0.38	05/09/23 21:39	
Carbon tetrachloride	ug/L	ND	1.0	0.13	05/09/23 21:39	
Chlorobenzene	ug/L	ND	1.0	0.13	05/09/23 21:39	
Chloroethane	ug/L	ND	1.0	0.21	05/09/23 21:39	
Chloroform	ug/L	ND	1.0	0.23	05/09/23 21:39	
Chloromethane	ug/L	ND	1.0	0.17	05/09/23 21:39	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.15	05/09/23 21:39	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

METHOD BLANK: 4639265

Matrix: Water

Associated Lab Samples: 10652236011, 10652236012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.057	05/09/23 21:39	
Dibromochloromethane	ug/L	ND	1.0	0.20	05/09/23 21:39	
Dibromomethane	ug/L	ND	1.0	0.17	05/09/23 21:39	
Dichlorodifluoromethane	ug/L	ND	1.0	0.079	05/09/23 21:39	
Dichlorofluoromethane	ug/L	ND	1.0	0.15	05/09/23 21:39	
Diethyl ether (Ethyl ether)	ug/L	ND	2.5	0.19	05/09/23 21:39	
Ethylbenzene	ug/L	ND	1.0	0.11	05/09/23 21:39	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	0.24	05/09/23 21:39	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	0.12	05/09/23 21:39	
m&p-Xylene	ug/L	ND	2.0	0.20	05/09/23 21:39	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.13	05/09/23 21:39	
Methylene Chloride	ug/L	ND	1.0	0.33	05/09/23 21:39	
n-Butylbenzene	ug/L	ND	1.0	0.096	05/09/23 21:39	
n-Propylbenzene	ug/L	ND	1.0	0.11	05/09/23 21:39	
Naphthalene	ug/L	ND	1.0	0.18	05/09/23 21:39	
o-Xylene	ug/L	ND	1.0	0.18	05/09/23 21:39	
p-Isopropyltoluene	ug/L	ND	1.0	0.11	05/09/23 21:39	
sec-Butylbenzene	ug/L	ND	1.0	0.097	05/09/23 21:39	
Styrene	ug/L	ND	1.0	0.097	05/09/23 21:39	
tert-Butylbenzene	ug/L	ND	1.0	0.091	05/09/23 21:39	
Tetrachloroethene	ug/L	ND	1.0	0.10	05/09/23 21:39	
Tetrahydrofuran	ug/L	ND	10.0	1.4	05/09/23 21:39	
Toluene	ug/L	ND	1.0	0.10	05/09/23 21:39	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.14	05/09/23 21:39	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.13	05/09/23 21:39	
Trichloroethene	ug/L	ND	1.0	0.12	05/09/23 21:39	
Trichlorofluoromethane	ug/L	ND	1.0	0.12	05/09/23 21:39	
Vinyl chloride	ug/L	ND	1.0	0.046	05/09/23 21:39	
Xylene (Total)	ug/L	ND	3.0	0.20	05/09/23 21:39	
1,2-Dichlorobenzene-d4 (S)	%	99	75-125		05/09/23 21:39	
4-Bromofluorobenzene (S)	%	99	75-125		05/09/23 21:39	
Toluene-d8 (S)	%	104	75-125		05/09/23 21:39	

LABORATORY CONTROL SAMPLE & LCSD: 4639266

4639267

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.1	17.6	91	88	75-125	3	20	
1,1,1-Trichloroethane	ug/L	20	19.8	20.7	99	103	75-125	4	20	
1,1,2,2-Tetrachloroethane	ug/L	20	17.5	17.6	88	88	71-125	0	20	
1,1,2-Trichloroethane	ug/L	20	18.9	19.4	95	97	75-125	2	20	
1,1,2-Trichlorotrifluoroethane	ug/L	20	18.5	19.6	93	98	69-125	5	20	
1,1-Dichloroethane	ug/L	20	17.7	17.9	88	89	75-125	1	20	
1,1-Dichloroethene	ug/L	20	19.1	18.9	96	95	69-125	1	20	
1,1-Dichloropropene	ug/L	20	19.3	19.6	96	98	74-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

LABORATORY CONTROL SAMPLE & LCSD: 4639266		4639267								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,3-Trichlorobenzene	ug/L	20	15.9	17.1	80	85	70-131	7	20	
1,2,3-Trichloropropane	ug/L	20	17.8	18.8	89	94	73-125	5	20	
1,2,4-Trichlorobenzene	ug/L	20	16.2	17.1	81	85	75-125	5	20	
1,2,4-Trimethylbenzene	ug/L	20	18.4	18.7	92	93	75-125	1	20	
1,2-Dibromo-3-chloropropane	ug/L	20	17.9	18.2	90	91	68-129	1	20	
1,2-Dibromoethane (EDB)	ug/L	20	18.6	18.8	93	94	75-125	1	20	
1,2-Dichlorobenzene	ug/L	20	18.0	18.1	90	91	75-125	1	20	
1,2-Dichloroethane	ug/L	20	20.1	20.5	100	103	75-125	2	20	
1,2-Dichloropropane	ug/L	20	18.1	18.7	90	93	75-125	3	20	
1,3,5-Trimethylbenzene	ug/L	20	18.1	18.3	90	91	75-125	1	20	
1,3-Dichlorobenzene	ug/L	20	18.6	18.7	93	94	75-125	0	20	
1,3-Dichloropropane	ug/L	20	18.5	17.8	93	89	75-125	4	20	
1,4-Dichlorobenzene	ug/L	20	18.0	18.7	90	94	75-125	4	20	
2,2-Dichloropropane	ug/L	20	16.2	16.9	81	85	65-125	5	20	
2-Butanone (MEK)	ug/L	100	96.9	91.5	97	91	61-131	6	20	
2-Chlorotoluene	ug/L	20	17.6	17.8	88	89	75-125	1	20	
4-Chlorotoluene	ug/L	20	18.1	18.3	91	92	75-125	1	20	
4-Methyl-2-pentanone (MIBK)	ug/L	100	95.7	100	96	100	62-142	5	20	
Acetone	ug/L	100	98.3	102	98	102	57-137	4	20	
Allyl chloride	ug/L	20	16.8	17.6	84	88	73-125	4	20	
Benzene	ug/L	20	18.1	18.2	91	91	75-125	1	20	
Bromobenzene	ug/L	20	18.3	18.2	91	91	75-125	0	20	
Bromochloromethane	ug/L	20	19.3	19.3	96	97	75-125	0	20	
Bromodichloromethane	ug/L	20	19.3	19.5	97	97	75-125	1	20	
Bromoform	ug/L	20	20.1	20.3	100	102	75-134	1	20	
Bromomethane	ug/L	20	12.9	15.2	65	76	32-150	16	20	
Carbon tetrachloride	ug/L	20	20.3	21.4	101	107	73-126	5	20	
Chlorobenzene	ug/L	20	18.5	18.3	93	92	75-125	1	20	
Chloroethane	ug/L	20	19.0	19.2	95	96	70-125	1	20	
Chloroform	ug/L	20	19.3	19.7	96	99	75-125	2	20	
Chloromethane	ug/L	20	14.6	15.3	73	77	65-125	5	20	
cis-1,2-Dichloroethene	ug/L	20	18.7	19.1	93	96	75-125	2	20	
cis-1,3-Dichloropropene	ug/L	20	18.8	19.1	94	96	75-125	2	20	
Dibromochloromethane	ug/L	20	20.0	19.4	100	97	75-125	3	20	
Dibromomethane	ug/L	20	20.5	20.7	103	103	75-125	1	20	
Dichlorodifluoromethane	ug/L	20	15.7	16.6	79	83	65-135	5	20	
Dichlorofluoromethane	ug/L	20	17.4	18.3	87	92	75-125	5	20	
Diethyl ether (Ethyl ether)	ug/L	20	19.0	19.6	95	98	75-125	3	20	
Ethylbenzene	ug/L	20	18.1	18.3	91	91	75-125	1	20	
Hexachloro-1,3-butadiene	ug/L	20	14.3	15.9	72	80	63-128	11	20	
Isopropylbenzene (Cumene)	ug/L	20	18.9	18.7	95	93	75-125	1	20	
m&p-Xylene	ug/L	40	37.0	37.0	93	93	75-125	0	20	
Methyl-tert-butyl ether	ug/L	20	21.5	22.7	107	114	75-125	6	20	
Methylene Chloride	ug/L	20	17.7	17.8	89	89	72-125	0	20	
n-Butylbenzene	ug/L	20	15.7	16.8	78	84	68-125	7	20	
n-Propylbenzene	ug/L	20	17.5	17.9	87	89	74-125	2	20	
Naphthalene	ug/L	20	17.4	18.4	87	92	67-140	6	20	

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QUALITY CONTROL DATA

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

LABORATORY CONTROL SAMPLE & LCSD: 4639266		4639267									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
o-Xylene	ug/L	20	18.3	18.7	92	94	75-125	2	20		
p-Isopropyltoluene	ug/L	20	17.9	18.9	89	94	75-126	5	20		
sec-Butylbenzene	ug/L	20	17.4	18.4	87	92	75-126	6	20		
Styrene	ug/L	20	19.2	19.4	96	97	75-139	1	20		
tert-Butylbenzene	ug/L	20	18.3	18.9	91	95	75-125	4	20		
Tetrachloroethene	ug/L	20	17.8	17.5	89	88	70-125	2	20		
Tetrahydrofuran	ug/L	100	101	104	101	104	63-145	3	20		
Toluene	ug/L	20	18.6	19.0	93	95	74-125	2	20		
trans-1,2-Dichloroethene	ug/L	20	18.4	18.8	92	94	75-125	2	20		
trans-1,3-Dichloropropene	ug/L	20	17.9	17.5	89	88	75-127	2	20		
Trichloroethene	ug/L	20	20.1	20.6	100	103	74-125	3	20		
Trichlorofluoromethane	ug/L	20	17.3	17.2	87	86	72-125	1	20		
Vinyl chloride	ug/L	20	16.0	17.4	80	87	66-125	8	20		
Xylene (Total)	ug/L	60	55.4	55.7	92	93	75-125	1	20		
1,2-Dichlorobenzene-d4 (S)	%				99	99	75-125				
4-Bromofluorobenzene (S)	%				99	100	75-125				
Toluene-d8 (S)	%				103	104	75-125				

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QUALITY CONTROL DATA

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

QC Batch: 880222 Analysis Method: EPA 8270E by SIM
 QC Batch Method: EPA 3546 Analysis Description: 8270E Solid PAH by SIM MSSV
 Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10652236001, 10652236002, 10652236003, 10652236004

METHOD BLANK: 4639475 Matrix: Solid

Associated Lab Samples: 10652236001, 10652236002, 10652236003, 10652236004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/kg	ND	10.0	2.0	05/10/23 10:55	
Acenaphthylene	ug/kg	ND	10.0	1.1	05/10/23 10:55	
Anthracene	ug/kg	ND	10.0	0.92	05/10/23 10:55	
Benzo(a)anthracene	ug/kg	ND	10.0	1.7	05/10/23 10:55	
Benzo(a)pyrene	ug/kg	ND	10.0	1.1	05/10/23 10:55	
Benzo(b)fluoranthene	ug/kg	ND	10.0	1.0	05/10/23 10:55	
Benzo(g,h,i)perylene	ug/kg	ND	10.0	1.9	05/10/23 10:55	
Benzo(k)fluoranthene	ug/kg	ND	10.0	1.0	05/10/23 10:55	
Chrysene	ug/kg	ND	10.0	1.0	05/10/23 10:55	
Dibenz(a,h)anthracene	ug/kg	ND	10.0	1.2	05/10/23 10:55	
Fluoranthene	ug/kg	ND	10.0	0.72	05/10/23 10:55	
Fluorene	ug/kg	ND	10.0	1.2	05/10/23 10:55	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	10.0	0.80	05/10/23 10:55	
Naphthalene	ug/kg	ND	10.0	1.1	05/10/23 10:55	
Phenanthrene	ug/kg	ND	10.0	0.79	05/10/23 10:55	
Pyrene	ug/kg	ND	10.0	1.5	05/10/23 10:55	
2-Fluorobiphenyl (S)	%	81	54-125		05/10/23 10:55	
p-Terphenyl-d14 (S)	%	103	60-125		05/10/23 10:55	

LABORATORY CONTROL SAMPLE: 4639476

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	100	77.0	77	56-125	
Acenaphthylene	ug/kg	100	78.8	79	54-125	
Anthracene	ug/kg	100	90.4	90	59-125	
Benzo(a)anthracene	ug/kg	100	82.9	83	55-125	
Benzo(a)pyrene	ug/kg	100	88.3	88	69-125	
Benzo(b)fluoranthene	ug/kg	100	88.3	88	54-125	
Benzo(g,h,i)perylene	ug/kg	100	94.1	94	63-125	
Benzo(k)fluoranthene	ug/kg	100	87.1	87	65-125	
Chrysene	ug/kg	100	86.2	86	62-125	
Dibenz(a,h)anthracene	ug/kg	100	96.9	97	64-125	
Fluoranthene	ug/kg	100	88.0	88	69-125	
Fluorene	ug/kg	100	78.9	79	61-125	
Indeno(1,2,3-cd)pyrene	ug/kg	100	100	100	54-125	
Naphthalene	ug/kg	100	77.4	77	49-125	
Phenanthrene	ug/kg	100	83.7	84	60-125	
Pyrene	ug/kg	100	91.9	92	69-125	
2-Fluorobiphenyl (S)	%			82	54-125	

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QUALITY CONTROL DATA

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

LABORATORY CONTROL SAMPLE: 4639476

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Terphenyl-d14 (S)	%.			102	60-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4639477 4639478

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10652147010 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Acenaphthene	ug/kg	ND	103	105	77.0	77.1	75	73	51-125	0	30	
Acenaphthylene	ug/kg	ND	103	105	73.0	80.0	71	76	50-125	9	30	
Anthracene	ug/kg	ND	103	105	86.7	93.4	84	89	39-136	7	30	
Benzo(a)anthracene	ug/kg	ND	103	105	76.4	80.0	74	76	30-131	5	30	
Benzo(a)pyrene	ug/kg	ND	103	105	100	108	98	103	30-150	8	30	
Benzo(b)fluoranthene	ug/kg	ND	103	105	78.8	82.8	77	79	30-150	5	30	
Benzo(g,h,i)perylene	ug/kg	ND	103	105	94.7	99.7	92	95	30-146	5	30	
Benzo(k)fluoranthene	ug/kg	ND	103	105	108	108	105	103	41-130	1	30	
Chrysene	ug/kg	ND	103	105	103	106	100	100	30-135	3	30	
Dibenz(a,h)anthracene	ug/kg	ND	103	105	94.4	101	92	96	50-129	6	30	
Fluoranthene	ug/kg	ND	103	105	86.8	86.9	84	83	30-150	0	30	
Fluorene	ug/kg	ND	103	105	83.5	86.0	81	82	56-125	3	30	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	103	105	78.0	81.6	76	78	30-148	4	30	
Naphthalene	ug/kg	ND	103	105	74.6	72.1	73	69	30-125	3	30	
Phenanthrene	ug/kg	ND	103	105	71.2	75.2	69	72	30-143	6	30	
Pyrene	ug/kg	ND	103	105	98.0	105	95	100	30-150	7	30	
2-Fluorobiphenyl (S)	%.						75	71	54-125			
p-Terphenyl-d14 (S)	%.						103	106	60-125			

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QUALITY CONTROL DATA

Project: 3M Menomonie /117-7383011
Pace Project No.: 10652236

QC Batch: 880036 Analysis Method: EPA 8270E by SIM
QC Batch Method: EPA 3510C Analysis Description: 8270E Water PAH by SIM MSSV
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10652236011, 10652236012

METHOD BLANK: 4638572 Matrix: Water

Associated Lab Samples: 10652236011, 10652236012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.040	0.0065	05/10/23 13:38	
Acenaphthylene	ug/L	ND	0.040	0.0056	05/10/23 13:38	
Anthracene	ug/L	ND	0.040	0.0049	05/10/23 13:38	
Benzo(a)anthracene	ug/L	ND	0.040	0.0076	05/10/23 13:38	
Benzo(a)pyrene	ug/L	ND	0.040	0.0080	05/10/23 13:38	
Benzo(b)fluoranthene	ug/L	ND	0.040	0.0083	05/10/23 13:38	
Benzo(g,h,i)perylene	ug/L	ND	0.040	0.0088	05/10/23 13:38	
Benzo(k)fluoranthene	ug/L	ND	0.040	0.0085	05/10/23 13:38	
Chrysene	ug/L	ND	0.040	0.0087	05/10/23 13:38	
Dibenz(a,h)anthracene	ug/L	ND	0.040	0.0079	05/10/23 13:38	
Fluoranthene	ug/L	ND	0.040	0.013	05/10/23 13:38	
Fluorene	ug/L	ND	0.040	0.0062	05/10/23 13:38	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.040	0.010	05/10/23 13:38	
Naphthalene	ug/L	ND	0.040	0.015	05/10/23 13:38	
Phenanthrene	ug/L	ND	0.040	0.014	05/10/23 13:38	
Pyrene	ug/L	ND	0.040	0.0091	05/10/23 13:38	
2-Fluorobiphenyl (S)	%	56	49-125		05/10/23 13:38	
p-Terphenyl-d14 (S)	%	95	42-125		05/10/23 13:38	

LABORATORY CONTROL SAMPLE: 4638573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	1	0.62	62	51-125	
Acenaphthylene	ug/L	1	0.66	66	50-125	
Anthracene	ug/L	1	0.72	72	50-125	
Benzo(a)anthracene	ug/L	1	0.63	63	59-125	
Benzo(a)pyrene	ug/L	1	0.85	85	62-125	
Benzo(b)fluoranthene	ug/L	1	0.67	67	56-125	
Benzo(g,h,i)perylene	ug/L	1	0.79	79	35-125	
Benzo(k)fluoranthene	ug/L	1	0.87	87	59-125	
Chrysene	ug/L	1	0.91	91	60-125	
Dibenz(a,h)anthracene	ug/L	1	0.78	78	30-125	
Fluoranthene	ug/L	1	0.73	73	62-125	
Fluorene	ug/L	1	0.69	69	53-125	
Indeno(1,2,3-cd)pyrene	ug/L	1	0.68	68	50-125	
Naphthalene	ug/L	1	0.54	54	49-125	
Phenanthrene	ug/L	1	0.60	60	56-125	
Pyrene	ug/L	1	0.82	82	60-125	
2-Fluorobiphenyl (S)	%			66	49-125	

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

LABORATORY CONTROL SAMPLE: 4638573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Terphenyl-d14 (S)	%.			89	42-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4639066 4639067

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10652424001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Acenaphthene	ug/L	0.31	3.3	3.3	2.2	2.6	57	70	30-125	18	30	
Acenaphthylene	ug/L	<0.019	3.3	3.3	1.9	2.3	56	70	30-125	21	30	
Anthracene	ug/L	<0.016	3.3	3.3	3.1	3.2	92	96	33-128	5	30	
Benzo(a)anthracene	ug/L	0.039J	3.3	3.3	2.2	2.2	65	65	33-125	0	30	
Benzo(a)pyrene	ug/L	<0.027	3.3	3.3	2.8	2.9	83	87	32-125	4	30	
Benzo(b)fluoranthene	ug/L	<0.028	3.3	3.3	2.3	2.3	68	68	31-125	0	30	
Benzo(g,h,i)perylene	ug/L	<0.029	3.3	3.3	2.5	2.7	76	80	31-125	5	30	
Benzo(k)fluoranthene	ug/L	<0.028	3.3	3.3	2.9	3.1	87	92	35-127	6	30	
Chrysene	ug/L	0.037J	3.3	3.3	2.9	3.1	86	92	39-125	7	30	
Dibenz(a,h)anthracene	ug/L	<0.026	3.3	3.3	2.6	2.6	77	79	30-125	3	30	
Fluoranthene	ug/L	0.094J	3.3	3.3	2.7	2.8	79	82	43-125	4	30	
Fluorene	ug/L	0.25	3.3	3.3	2.5	2.7	67	74	30-125	9	30	
Indeno(1,2,3-cd)pyrene	ug/L	<0.034	3.3	3.3	2.1	2.4	63	71	30-125	12	30	
Naphthalene	ug/L	<0.049	3.3	3.3	1.5	2.1	46	62	31-125	30	30	
Phenanthrene	ug/L	0.83	3.3	3.3	2.8	2.7	60	55	33-125	6	30	
Pyrene	ug/L	0.13J	3.3	3.3	2.7	2.9	76	82	41-125	8	30	
2-Fluorobiphenyl (S)	%.						59	67	49-125			P1
p-Terphenyl-d14 (S)	%.						88	87	42-125			

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.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 10652236

[1] The samples were received outside of required temperature range. Analysis was completed upon client approval.

BATCH QUALIFIERS

Batch: 880177

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

[1] The continuing calibration verification was below the method acceptance limit for chloromethane and bromomethane. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

Batch: 880613

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

[1] On 5/10/23 the continuing calibration verification was below the method acceptance limit for 1,2,3-trichlorobenzene. Any detection for the analyte in the associated samples may have a low bias.

[2] On 5/10/23 the continuing calibration verification was above the method acceptance limit for methylene chloride. Any detection for the analyte in the associated samples may have a high bias.

[3] On 5/12/23 the continuing calibration verification was below the method acceptance limit for 1,2,3-trichlorobenzene. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

Batch: 880914

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

BATCH QUALIFIERS

Batch: 880914

- [1] On 5/11/23 the continuing calibration verification was above the method acceptance limit for bromomethane, dichlorofluoromethane, trichlorofluoromethane, and hexachloro-1,3-butadiene. Any detection for the analyte in the associated samples may have a high bias.

ANALYTE QUALIFIERS

- 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.
- P1 Routine initial sample volume or weight was not used for extraction, resulting in elevated reporting limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 3M Menomonie /117-7383011

Pace Project No.: 10652236

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10652236001	MEWI-S-MW7-2-3FT-0-230502	ASTM D2974	880612		
10652236002	MEWI-S-MW7-58-59FT-0-230502	ASTM D2974	880612		
10652236003	MEWI-S-MW6-2-3FT-0-230503	ASTM D2974	880612		
10652236004	MEWI-S-MW6-58-59FT-0-230503	ASTM D2974	880612		
10652236005	MEWI-S-MW3-4.5-5.5FT-0-230503	ASTM D2974	880612		
10652236006	MEWI-S-MW3-12.5-13.5FT-0-23050	ASTM D2974	880612		
10652236007	MEWI-S-MW3-59-60FT-0-230503	ASTM D2974	880612		
10652236008	MEWI-S-SB30-4.5-5.5FT-0-230503	ASTM D2974	880612		
10652236009	MEWI-S-SB30-12.5-13.5FT-0-2305	ASTM D2974	880612		
10652236010	MEWI-S-SB30-19-20FT-0-230503	ASTM D2974	880612		
10652236001	MEWI-S-MW7-2-3FT-0-230502	EPA 3546	880222	EPA 8270E by SIM	880360
10652236002	MEWI-S-MW7-58-59FT-0-230502	EPA 3546	880222	EPA 8270E by SIM	880360
10652236003	MEWI-S-MW6-2-3FT-0-230503	EPA 3546	880222	EPA 8270E by SIM	880360
10652236004	MEWI-S-MW6-58-59FT-0-230503	EPA 3546	880222	EPA 8270E by SIM	880360
10652236011	MEWI-W-FB3-FB-0-230504	EPA 3510C	880036	EPA 8270E by SIM	880365
10652236012	MEWI-W-EB3-EB-0-230504	EPA 3510C	880036	EPA 8270E by SIM	880365
10652236001	MEWI-S-MW7-2-3FT-0-230502	EPA 5035/5030B	879899	EPA 8260D	880059
10652236002	MEWI-S-MW7-58-59FT-0-230502	EPA 5035/5030B	879899	EPA 8260D	880059
10652236003	MEWI-S-MW6-2-3FT-0-230503	EPA 5035/5030B	880342	EPA 8260D	880613
10652236004	MEWI-S-MW6-58-59FT-0-230503	EPA 5035/5030B	880342	EPA 8260D	880613
10652236005	MEWI-S-MW3-4.5-5.5FT-0-230503	EPA 5035/5030B	880342	EPA 8260D	880613
10652236006	MEWI-S-MW3-12.5-13.5FT-0-23050	EPA 5035/5030B	880342	EPA 8260D	880613
10652236007	MEWI-S-MW3-59-60FT-0-230503	EPA 5035/5030B	880342	EPA 8260D	880613
10652236008	MEWI-S-SB30-4.5-5.5FT-0-230503	EPA 5035/5030B	880342	EPA 8260D	880613
10652236009	MEWI-S-SB30-12.5-13.5FT-0-2305	EPA 5035/5030B	880342	EPA 8260D	880613
10652236010	MEWI-S-SB30-19-20FT-0-230503	EPA 5035/5030B	880342	EPA 8260D	880613
10652236013	MEWI-W-TB1-TB	EPA 5035/5030B	880609	EPA 8260D	880914
10652236011	MEWI-W-FB3-FB-0-230504	EPA 8260D	880177		
10652236012	MEWI-W-EB3-EB-0-230504	EPA 8260D	880177		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

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

Company: **Tetra Tech**

Address: **13555 Ashps Ct, Ste 201, Brooksfield, VA 22005**

Report To: **Chris Bonniwell**

Email To: **Chris.bonniwell@tetratech.com**

Site Collection Info/Address:

Customer Project Name/Number: **3M Memorandum #117-7383011**

Phone: **(42) 792-1282**

Email: **Conny Langan**

Collected By (print): **Conny Langan**

Collected By (signature): *Conny Langan*

Sample Disposal: **[] Same Day [] Next Day [] 12 Day [] 3 Day [] 4 Day [] 5 Day**

Rush: **Standard**

* Matrix Codes (Insert in Matrix box below): Drinking Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Res Cl	# of Ctns
			Date	Time		
MENT-S-MN17-2-3FT-0-230502	SL	G	5/2/23	9:15		9
MENT-S-MN17-58-59FT-0-230503	SL	G	5/2/23	11:40		4
MENT-S-MN16-2-3FT-0-230503	SL	G	5/3/23	8:15		4
MENT-S-MN16-58-59FT-0-230503	SL	G	5/3/23	9:25		4
MENT-S-MN13-4.5-5.5FT-0-230503		G	5/3/23	8:15		3
MENT-S-MN13-12.5-13.5FT-0-230503		G	5/3/23	8:35		3
MENT-S-MN13-57-60FT-0-230503		G	5/3/23	11:05		3
MENT-S-SB30-4.5-5.5FT-0-230503		G	5/3/23	15:15		3
MENT-S-SB30-12.5-13.5FT-0-230503		G	5/3/23	15:30		3
MENT-S-SB30-19-20FT-0-230503		G	5/3/23	15:45		3

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

Date/Time: **5/5/23 15:00**

Date/Time: **5/5/23**

Date/Time: **5/5/23**

Relinquished by/Company: (Signature) *Conny Langan Tetra Tech*

Relinquished by/Company: (Signature) **63**

Relinquished by/Company: (Signature) **66**

Received by/Company: (Signature) *Chris D. Langan*

Received by/Company: (Signature)

Received by/Company: (Signature)

WO#: 10652236



10652236

LAB USE ONLY - Affix Work

ALL SHAD

Container Preservative Type

6 U U U

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Profile/Line:	Lab Sample Receipt Checklist:
Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips:	Y N NA
Sample pH Acceptable	Y N NA
pH Strips:	Y N NA
Sulfide Present	Y N NA
Lead acetate Strips:	Y N NA
LAB USE ONLY:	
Lab Sample # / Comments:	

Analyses	Result
VOCS	X
PAH	X
MOISTURE	X

Lab Sample Temperature Info

Temp Blank Received: Y N NA

Therm ID#: **9.7**

Cooler 1 Temp Upon Receipt: **9.7** °C

Cooler 1 Therm Corr Factor: **0.0** °C

Cooler 1 Corrected Temp: **9.7** °C

Comments:

Lab Tracking #: **2882209**

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Samples received via: FEDEX UPS Client Courier Pace Courier

Date/Time: **5/5/23 15:18**

Date/Time: **5/5/23**

Date/Time: **5/5/23**

Relinquished by/Company: (Signature) *Conny Langan Tetra Tech*

Relinquished by/Company: (Signature) **63**

Relinquished by/Company: (Signature) **66**

Received by/Company: (Signature) *Chris D. Langan*

Received by/Company: (Signature)

Received by/Company: (Signature)

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: **1** of: **2**



CHAIN-OF-CUSTODY Analytical Request Document

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

Company: **Tetra Tech**
 Address: **12555 Bishops Ct. Ste 201, Brookfield, WI 53005**
 Report To: **Chris Bonniwell**
 Copy To: **Chris Bonniwell**

Billing Information:
 Email To: **Chris.Bonniwell@tetratech.com**
 Site Collection Info/Address:
 State: **WI** / County/City: **Dunn** / Time Zone Collected: **PT** [] **MT** [] **CT** [] **ET** []
 Customer Project Name/Number: **3M MENDMONIE / 117-738301**
 Site/Facility ID #: **(262) 792-1282**
 Phone: **(262) 792-1282**
 Email: **Condr Larson**
 Collected By (print): **Condr Larson**
 Collected By (signature): *Condr Larson*
 Turnaround Date Required: **Standard**
 Purchase Order #: **Standard**
 Quote #: **Standard**
 Turnaround Date Required: **Standard**
 Rush: [] Same Day [] Next Day [] 3 Day [] 4 Day [] 5 Day [] Hold: (Expedite Charges Apply)
 Sample Disposal: [] Dispose as appropriate [] Return [] Archive: [] Hold:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Res CI	# of Ctns
			Date	Time		
MENI-W-FB3-FB-230504	W	G	5/4/23	10:00		3
MENI-W-EB3-EB-230504	W	G	5/4/23	13:30		3
MENI-W-TB1-TB	W	-	-	-		1

Customer Remarks / Special Conditions / Possible Hazards:
 Type of Ice Used: Wet Blue Dry None
 Packing Material Used:
 Radchem sample(s) screened (<500 cpm): Y N NA
 Received by/Company: (Signature) *Charles G. Pace*
 Date/Time: **5/5/23 15:18**

Relinquished by/Company: (Signature) *Condr Larson - Tetra Tech*
 Date/Time: **5/5/23**
 Relinquished by/Company: (Signature)
 Date/Time:
 Relinquished by/Company: (Signature)
 Date/Time:

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type **
 Lab Project Manager:
 ** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses	Y	N	N/A
VOCS	X		
PAH	X		

Lab Profile/Line:
 Lab Sample Receipt Checklist:
 Custody Seals Present/Intact: Y N NA
 Custody Signatures Present: Y N NA
 Collector Signatures Present: Y N NA
 Bottles Intact: Y N NA
 Correct Bottles: Y N NA
 Sufficient Volume: Y N NA
 Samples Received on Ice: Y N NA
 VOA - Headspace Acceptable: Y N NA
 USDA Regulated Soils: Y N NA
 Samples in Holding Time: Y N NA
 Residual Chlorine Present: Y N NA
 Cl Strips: Y N NA
 Sample pH Acceptable: Y N NA
 pH Strips: Y N NA
 Sulfide Present: Y N NA
 Lead Acetate Strips: Y N NA
 Lab USE ONLY:
 Lab Sample # / Comments:

Lab Sample Temperature info:
 Temp Blank Received: Y N NA
 Therm ID#: **9.7**
 Cooler 1 Temp Upon Receipt: **9.7** °C
 Cooler 1 Therm Corr. Factor: **0** °C
 Cooler 1 Corrected Temp: **0** °C
 Comments:
 Trip Blank Received: Y N NA
 HCL MeOH TSP Other
 Non Conformance(s): YES / NO
 Page: **2** of: **2**

SHORT-HOLDS PRESENT (<72 hours): Y N N/A
 Lab Tracking #: **28822210**
 Samples received via: FEDEX UPS Client Courier Pace Courier
 MTEL LAB USE ONLY
 Table #:
 Acctnum:
 Template:
 Prelogin:
 PM:
 PB:

Effective Date: 4/14/2023

Sample Condition Upon Receipt Client Name: 3m Memoronic/Tetra Tech Project #: **WO#: 10652236**

Courier: FedEx UPS USPS Client Pace Speedee Commercial See Exceptions

Tracking Number: 592571457342 ENV-FRM-MIN4-0142

PM: FEP Due Date: 05/22/23 CLIENT: TETRATECH-MN

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

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

Biological Tissue Frozen? Yes No N/A

Temp Blank? Yes No

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: _____ °C

Correction Factor: +0.1 Cooler Temp Corrected w/temp blank: _____ °C

Average Corrected Temp (no temp blank only): 9.2 °C

See Exceptions ENV-FRM-MIN4-0142 1 Container

USDA Regulated Soil: N/A, water sample/other: _____ Date/Initials of Person Examining Contents: AC 5.5.23

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 checked="" 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 type="checkbox"/> No <input checked="" 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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. If no, write ID/Date/Time of container below: <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
Matrix: <input type="checkbox"/> Water <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other	
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? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
(HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxins/PFAS <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input 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
(*If adding preservative to a container, it must be added to associated field and equipment blanks--verify with PM first.)	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 checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>AC 5-5-23</u> <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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: [Signature] Date: 05/09/2023

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: AC 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
7.2	7.3	9.2
13.5	13.6	
8.5	8.6	
7.2	7.3	

PM Notified of Out of Temp Cooler? Yes No

If yes, indicate who was contacted, date and time.
If no, indicate reason why.

Multiple Cooler Project? Yes 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:

December 09, 2022

Craig Wieman
Tetra Tech, Inc
5404 Alderson Ave
Suite 500
Schofield, WI 54476

RE: Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Dear Craig Wieman:

Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 2022. 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 - Green Bay

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

Sincerely,



Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Marsha Meurette, Tetra Tech, INC.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-21-8

Virginia VELAP Certification ID: 11873

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-21-00008

Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40255397001	SB-1	Solid	11/29/22 10:00	12/01/22 09:20
40255397002	SB-2	Solid	11/28/22 14:00	12/01/22 09:20
40255397003	SB-3	Solid	11/28/22 13:30	12/01/22 09:20
40255397004	SB-4	Solid	11/28/22 13:45	12/01/22 09:20
40255397005	SB-5	Solid	11/28/22 14:15	12/01/22 09:20
40255397006	DUPLICATE NO. 2	Solid	11/28/22 00:00	12/01/22 09:20
40255397007	DUPLICATE NO. 3	Solid	11/28/22 00:00	12/01/22 09:20
40255397008	SB-8	Solid	11/28/22 16:45	12/01/22 09:20
40255397009	SB-9	Solid	11/28/22 17:00	12/01/22 09:20
40255397010	SB-10	Solid	11/28/22 17:20	12/01/22 09:20
40255397011	SB-11	Solid	11/28/22 17:30	12/01/22 09:20
40255397012	SB-12	Solid	11/28/22 17:10	12/01/22 09:20
40255397013	SB-13	Solid	11/28/22 15:30	12/01/22 09:20
40255397014	SB-14	Solid	11/28/22 15:40	12/01/22 09:20
40255397015	SB-15	Solid	11/28/22 15:50	12/01/22 09:20
40255397016	SB-16	Solid	11/28/22 16:00	12/01/22 09:20
40255397017	SB-17	Solid	11/28/22 14:40	12/01/22 09:20
40255397018	SB-18	Solid	11/28/22 14:50	12/01/22 09:20
40255397019	SB-19	Solid	11/28/22 16:00	12/01/22 09:20
40255397020	SB-23	Solid	11/29/22 10:30	12/01/22 09:20
40255397021	DUPLICATE NO. 1	Solid	11/28/22 00:00	12/01/22 09:20
40255397022	TRIP BLANK	Solid	11/28/22 00:00	12/01/22 09:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40255397001	SB-1	EPA 6010D	SIS	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	64	PASI-G
		ASTM D2974-87	NMK	1	PASI-G
40255397002	SB-2	EPA 6010D	SIS	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	64	PASI-G
		ASTM D2974-87	NMK	1	PASI-G
40255397003	SB-3	EPA 6010D	SIS	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	64	PASI-G
		ASTM D2974-87	NMK	1	PASI-G
40255397004	SB-4	EPA 6010D	SIS	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	64	PASI-G
		ASTM D2974-87	NMK	1	PASI-G
40255397005	SB-5	EPA 6010D	SIS	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	64	PASI-G
		ASTM D2974-87	NMK	1	PASI-G
40255397006	DUPLICATE NO. 2	EPA 6010D	SIS	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	64	PASI-G
		ASTM D2974-87	NMK	1	PASI-G
40255397007	DUPLICATE NO. 3	EPA 6010D	SIS	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	64	PASI-G
		ASTM D2974-87	NMK	1	PASI-G
40255397008	SB-8	EPA 6010D	SIS	7	PASI-G
		EPA 7471	AJT	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40255397009	SB-9	EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	64	PASI-G
		ASTM D2974-87	NMK	1	PASI-G
		EPA 6010D	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
40255397010	SB-10	EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	64	PASI-G
		ASTM D2974-87	NMK	1	PASI-G
		EPA 6010D	SIS	7	PASI-G
		EPA 7471	AJT	1	PASI-G
40255397011	SB-11	EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	64	PASI-G
		ASTM D2974-87	NMK	1	PASI-G
		EPA 6010D	SIS	7	PASI-G
		EPA 7471	AJT	1	PASI-G
40255397012	SB-12	EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	64	PASI-G
		ASTM D2974-87	NMK	1	PASI-G
		EPA 6010D	SIS	7	PASI-G
		EPA 7471	AJT	1	PASI-G
40255397013	SB-13	EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	64	PASI-G
		ASTM D2974-87	NMK	1	PASI-G
		EPA 6010D	SIS	7	PASI-G
		EPA 7471	AJT	1	PASI-G
40255397014	SB-14	EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	64	PASI-G
		ASTM D2974-87	NMK	1	PASI-G
		EPA 6010D	SIS	7	PASI-G
		EPA 7471	AJT	1	PASI-G
40255397015	SB-15	EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	64	PASI-G
		ASTM D2974-87	NMK	1	PASI-G
		EPA 6010D	SIS	7	PASI-G
		EPA 7471	AJT	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40255397016	SB-16	ASTM D2974-87	NMK	1	PASI-G
		EPA 6010D	SIS	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	64	PASI-G
40255397017	SB-17	ASTM D2974-87	NMK	1	PASI-G
		EPA 6010D	SIS	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	64	PASI-G
40255397018	SB-18	ASTM D2974-87	NMK	1	PASI-G
		EPA 8082A	BLM	10	PASI-G
		EPA 6010D	SIS	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
40255397019	SB-19	EPA 8260	ALD	64	PASI-G
		ASTM D2974-87	NMK	1	PASI-G
		EPA 8082A	BLM	10	PASI-G
		EPA 6010D	SIS	7	PASI-G
		EPA 7471	AJT	1	PASI-G
40255397020	SB-23	EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	64	PASI-G
		ASTM D2974-87	NMK	1	PASI-G
		EPA 6010D	SIS	7	PASI-G
		EPA 7471	AJT	1	PASI-G
40255397021	DUPLICATE NO. 1	ASTM D2974-87	NMK	1	PASI-G
		EPA 8082A	BLM	10	PASI-G
		EPA 6010D	SIS	7	PASI-G
		EPA 7471	AJT	1	PASI-G
40255397022	TRIP BLANK	ASTM D2974-87	NMK	1	PASI-G
		EPA 8260	ALD	64	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-1 **Lab ID: 40255397001** Collected: 11/29/22 10:00 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	1.6J	mg/kg	2.7	1.6	1	12/02/22 06:42	12/02/22 21:58	7440-38-2	
Barium	31.2	mg/kg	0.54	0.16	1	12/02/22 06:42	12/02/22 21:58	7440-39-3	M0
Cadmium	<0.14	mg/kg	0.54	0.14	1	12/02/22 06:42	12/02/22 21:58	7440-43-9	
Chromium	9.2	mg/kg	1.1	0.30	1	12/02/22 06:42	12/02/22 21:58	7440-47-3	
Lead	2.8	mg/kg	2.1	0.64	1	12/02/22 06:42	12/02/22 21:58	7439-92-1	
Selenium	<1.4	mg/kg	4.3	1.4	1	12/02/22 06:42	12/02/22 21:58	7782-49-2	
Silver	<0.33	mg/kg	1.1	0.33	1	12/02/22 06:42	12/02/22 21:58	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.011	mg/kg	0.038	0.011	1	12/05/22 09:55	12/06/22 08:51	7439-97-6	
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<2.3	ug/kg	18.0	2.3	1	12/06/22 08:13	12/06/22 14:07	83-32-9	
Acenaphthylene	<2.3	ug/kg	18.0	2.3	1	12/06/22 08:13	12/06/22 14:07	208-96-8	
Anthracene	<2.2	ug/kg	18.0	2.2	1	12/06/22 08:13	12/06/22 14:07	120-12-7	
Benzo(a)anthracene	<2.3	ug/kg	18.0	2.3	1	12/06/22 08:13	12/06/22 14:07	56-55-3	
Benzo(a)pyrene	<2.0	ug/kg	18.0	2.0	1	12/06/22 08:13	12/06/22 14:07	50-32-8	
Benzo(b)fluoranthene	<2.5	ug/kg	18.0	2.5	1	12/06/22 08:13	12/06/22 14:07	205-99-2	
Benzo(g,h,i)perylene	<3.1	ug/kg	18.0	3.1	1	12/06/22 08:13	12/06/22 14:07	191-24-2	
Benzo(k)fluoranthene	<2.3	ug/kg	18.0	2.3	1	12/06/22 08:13	12/06/22 14:07	207-08-9	
Chrysene	<3.4	ug/kg	18.0	3.4	1	12/06/22 08:13	12/06/22 14:07	218-01-9	
Dibenz(a,h)anthracene	<2.5	ug/kg	18.0	2.5	1	12/06/22 08:13	12/06/22 14:07	53-70-3	
Fluoranthene	<2.1	ug/kg	18.0	2.1	1	12/06/22 08:13	12/06/22 14:07	206-44-0	
Fluorene	<2.2	ug/kg	18.0	2.2	1	12/06/22 08:13	12/06/22 14:07	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.7	ug/kg	18.0	3.7	1	12/06/22 08:13	12/06/22 14:07	193-39-5	
1-Methylnaphthalene	<2.6	ug/kg	18.0	2.6	1	12/06/22 08:13	12/06/22 14:07	90-12-0	
2-Methylnaphthalene	<2.6	ug/kg	18.0	2.6	1	12/06/22 08:13	12/06/22 14:07	91-57-6	
Naphthalene	<1.7	ug/kg	18.0	1.7	1	12/06/22 08:13	12/06/22 14:07	91-20-3	
Phenanthrene	<2.1	ug/kg	18.0	2.1	1	12/06/22 08:13	12/06/22 14:07	85-01-8	
Pyrene	<2.6	ug/kg	18.0	2.6	1	12/06/22 08:13	12/06/22 14:07	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%	41-98		1	12/06/22 08:13	12/06/22 14:07	321-60-8	
Terphenyl-d14 (S)	65	%	37-106		1	12/06/22 08:13	12/06/22 14:07	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<13.7	ug/kg	23.0	13.7	1	12/07/22 07:00	12/07/22 12:44	71-43-2	
Bromobenzene	<22.5	ug/kg	57.6	22.5	1	12/07/22 07:00	12/07/22 12:44	108-86-1	
Bromochloromethane	<15.8	ug/kg	57.6	15.8	1	12/07/22 07:00	12/07/22 12:44	74-97-5	
Bromodichloromethane	<13.7	ug/kg	57.6	13.7	1	12/07/22 07:00	12/07/22 12:44	75-27-4	
Bromoform	<253	ug/kg	288	253	1	12/07/22 07:00	12/07/22 12:44	75-25-2	
Bromomethane	<80.8	ug/kg	288	80.8	1	12/07/22 07:00	12/07/22 12:44	74-83-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

Sample: SB-1 **Lab ID: 40255397001** Collected: 11/29/22 10:00 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
n-Butylbenzene	<26.4	ug/kg	57.6	26.4	1	12/07/22 07:00	12/07/22 12:44	104-51-8	
sec-Butylbenzene	<14.1	ug/kg	57.6	14.1	1	12/07/22 07:00	12/07/22 12:44	135-98-8	
tert-Butylbenzene	<18.1	ug/kg	57.6	18.1	1	12/07/22 07:00	12/07/22 12:44	98-06-6	
Carbon tetrachloride	<12.7	ug/kg	57.6	12.7	1	12/07/22 07:00	12/07/22 12:44	56-23-5	
Chlorobenzene	<6.9	ug/kg	57.6	6.9	1	12/07/22 07:00	12/07/22 12:44	108-90-7	
Chloroethane	<24.3	ug/kg	288	24.3	1	12/07/22 07:00	12/07/22 12:44	75-00-3	
Chloroform	<41.2	ug/kg	288	41.2	1	12/07/22 07:00	12/07/22 12:44	67-66-3	
Chloromethane	<21.9	ug/kg	57.6	21.9	1	12/07/22 07:00	12/07/22 12:44	74-87-3	
2-Chlorotoluene	<18.7	ug/kg	57.6	18.7	1	12/07/22 07:00	12/07/22 12:44	95-49-8	
4-Chlorotoluene	<21.9	ug/kg	57.6	21.9	1	12/07/22 07:00	12/07/22 12:44	106-43-4	
1,2-Dibromo-3-chloropropane	<44.7	ug/kg	288	44.7	1	12/07/22 07:00	12/07/22 12:44	96-12-8	
Dibromochloromethane	<197	ug/kg	288	197	1	12/07/22 07:00	12/07/22 12:44	124-48-1	
1,2-Dibromoethane (EDB)	<15.8	ug/kg	57.6	15.8	1	12/07/22 07:00	12/07/22 12:44	106-93-4	
Dibromomethane	<17.1	ug/kg	57.6	17.1	1	12/07/22 07:00	12/07/22 12:44	74-95-3	
1,2-Dichlorobenzene	<17.9	ug/kg	57.6	17.9	1	12/07/22 07:00	12/07/22 12:44	95-50-1	
1,3-Dichlorobenzene	<15.8	ug/kg	57.6	15.8	1	12/07/22 07:00	12/07/22 12:44	541-73-1	
1,4-Dichlorobenzene	<15.8	ug/kg	57.6	15.8	1	12/07/22 07:00	12/07/22 12:44	106-46-7	
Dichlorodifluoromethane	<24.8	ug/kg	57.6	24.8	1	12/07/22 07:00	12/07/22 12:44	75-71-8	
1,1-Dichloroethane	<14.7	ug/kg	57.6	14.7	1	12/07/22 07:00	12/07/22 12:44	75-34-3	
1,2-Dichloroethane	<13.3	ug/kg	57.6	13.3	1	12/07/22 07:00	12/07/22 12:44	107-06-2	
1,1-Dichloroethene	<19.1	ug/kg	57.6	19.1	1	12/07/22 07:00	12/07/22 12:44	75-35-4	
cis-1,2-Dichloroethene	<12.3	ug/kg	57.6	12.3	1	12/07/22 07:00	12/07/22 12:44	156-59-2	
trans-1,2-Dichloroethene	<12.4	ug/kg	57.6	12.4	1	12/07/22 07:00	12/07/22 12:44	156-60-5	
1,2-Dichloropropane	<13.7	ug/kg	57.6	13.7	1	12/07/22 07:00	12/07/22 12:44	78-87-5	
1,3-Dichloropropane	<12.6	ug/kg	57.6	12.6	1	12/07/22 07:00	12/07/22 12:44	142-28-9	
2,2-Dichloropropane	<15.6	ug/kg	57.6	15.6	1	12/07/22 07:00	12/07/22 12:44	594-20-7	
1,1-Dichloropropene	<18.7	ug/kg	57.6	18.7	1	12/07/22 07:00	12/07/22 12:44	563-58-6	
cis-1,3-Dichloropropene	<38.0	ug/kg	288	38.0	1	12/07/22 07:00	12/07/22 12:44	10061-01-5	
trans-1,3-Dichloropropene	<165	ug/kg	288	165	1	12/07/22 07:00	12/07/22 12:44	10061-02-6	
Diisopropyl ether	<14.3	ug/kg	57.6	14.3	1	12/07/22 07:00	12/07/22 12:44	108-20-3	
Ethylbenzene	<13.7	ug/kg	57.6	13.7	1	12/07/22 07:00	12/07/22 12:44	100-41-4	
Hexachloro-1,3-butadiene	<115	ug/kg	288	115	1	12/07/22 07:00	12/07/22 12:44	87-68-3	
Isopropylbenzene (Cumene)	<15.6	ug/kg	57.6	15.6	1	12/07/22 07:00	12/07/22 12:44	98-82-8	
p-Isopropyltoluene	<17.5	ug/kg	57.6	17.5	1	12/07/22 07:00	12/07/22 12:44	99-87-6	
Methylene Chloride	<16.0	ug/kg	57.6	16.0	1	12/07/22 07:00	12/07/22 12:44	75-09-2	
Methyl-tert-butyl ether	<16.9	ug/kg	57.6	16.9	1	12/07/22 07:00	12/07/22 12:44	1634-04-4	
Naphthalene	<18.0	ug/kg	288	18.0	1	12/07/22 07:00	12/07/22 12:44	91-20-3	
n-Propylbenzene	<13.8	ug/kg	57.6	13.8	1	12/07/22 07:00	12/07/22 12:44	103-65-1	
Styrene	<14.7	ug/kg	57.6	14.7	1	12/07/22 07:00	12/07/22 12:44	100-42-5	
1,1,1,2-Tetrachloroethane	<13.8	ug/kg	57.6	13.8	1	12/07/22 07:00	12/07/22 12:44	630-20-6	
1,1,1,2,2-Tetrachloroethane	<20.9	ug/kg	57.6	20.9	1	12/07/22 07:00	12/07/22 12:44	79-34-5	
Tetrachloroethene	<22.4	ug/kg	57.6	22.4	1	12/07/22 07:00	12/07/22 12:44	127-18-4	
Toluene	<14.5	ug/kg	57.6	14.5	1	12/07/22 07:00	12/07/22 12:44	108-88-3	
1,2,3-Trichlorobenzene	<64.2	ug/kg	288	64.2	1	12/07/22 07:00	12/07/22 12:44	87-61-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-1 **Lab ID: 40255397001** Collected: 11/29/22 10:00 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<47.5	ug/kg	288	47.5	1	12/07/22 07:00	12/07/22 12:44	120-82-1	
1,1,1-Trichloroethane	<14.7	ug/kg	57.6	14.7	1	12/07/22 07:00	12/07/22 12:44	71-55-6	
1,1,2-Trichloroethane	<21.0	ug/kg	57.6	21.0	1	12/07/22 07:00	12/07/22 12:44	79-00-5	
Trichloroethene	<21.5	ug/kg	57.6	21.5	1	12/07/22 07:00	12/07/22 12:44	79-01-6	
Trichlorofluoromethane	<16.7	ug/kg	57.6	16.7	1	12/07/22 07:00	12/07/22 12:44	75-69-4	
1,2,3-Trichloropropane	<28.0	ug/kg	57.6	28.0	1	12/07/22 07:00	12/07/22 12:44	96-18-4	
1,2,4-Trimethylbenzene	<17.2	ug/kg	57.6	17.2	1	12/07/22 07:00	12/07/22 12:44	95-63-6	
1,3,5-Trimethylbenzene	<18.6	ug/kg	57.6	18.6	1	12/07/22 07:00	12/07/22 12:44	108-67-8	
Vinyl chloride	<11.6	ug/kg	57.6	11.6	1	12/07/22 07:00	12/07/22 12:44	75-01-4	
m&p-Xylene	<24.3	ug/kg	115	24.3	1	12/07/22 07:00	12/07/22 12:44	179601-23-1	
o-Xylene	<17.3	ug/kg	57.6	17.3	1	12/07/22 07:00	12/07/22 12:44	95-47-6	
Surrogates									
Toluene-d8 (S)	114	%	69-153		1	12/07/22 07:00	12/07/22 12:44	2037-26-5	
4-Bromofluorobenzene (S)	123	%	68-156		1	12/07/22 07:00	12/07/22 12:44	460-00-4	
1,2-Dichlorobenzene-d4 (S)	116	%	71-161		1	12/07/22 07:00	12/07/22 12:44	2199-69-1	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	7.1	%	0.10	0.10	1		12/01/22 15:12		

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-2 **Lab ID: 40255397002** Collected: 11/28/22 14:00 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	<1.5	mg/kg	2.6	1.5	1	12/02/22 06:42	12/02/22 22:08	7440-38-2	
Barium	53.7	mg/kg	0.53	0.16	1	12/02/22 06:42	12/02/22 22:08	7440-39-3	
Cadmium	<0.14	mg/kg	0.53	0.14	1	12/02/22 06:42	12/02/22 22:08	7440-43-9	
Chromium	9.5	mg/kg	1.1	0.29	1	12/02/22 06:42	12/02/22 22:08	7440-47-3	
Lead	4.3	mg/kg	2.1	0.63	1	12/02/22 06:42	12/02/22 22:08	7439-92-1	
Selenium	<1.4	mg/kg	4.2	1.4	1	12/02/22 06:42	12/02/22 22:08	7782-49-2	
Silver	<0.32	mg/kg	1.1	0.32	1	12/02/22 06:42	12/02/22 22:08	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.010	mg/kg	0.036	0.010	1	12/05/22 09:55	12/06/22 08:58	7439-97-6	
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<2.3	ug/kg	18.1	2.3	1	12/02/22 07:57	12/02/22 13:01	83-32-9	
Acenaphthylene	<2.3	ug/kg	18.1	2.3	1	12/02/22 07:57	12/02/22 13:01	208-96-8	
Anthracene	<2.2	ug/kg	18.1	2.2	1	12/02/22 07:57	12/02/22 13:01	120-12-7	
Benzo(a)anthracene	<2.3	ug/kg	18.1	2.3	1	12/02/22 07:57	12/02/22 13:01	56-55-3	
Benzo(a)pyrene	<2.1	ug/kg	18.1	2.1	1	12/02/22 07:57	12/02/22 13:01	50-32-8	
Benzo(b)fluoranthene	<2.5	ug/kg	18.1	2.5	1	12/02/22 07:57	12/02/22 13:01	205-99-2	
Benzo(g,h,i)perylene	<3.2	ug/kg	18.1	3.2	1	12/02/22 07:57	12/02/22 13:01	191-24-2	
Benzo(k)fluoranthene	<2.3	ug/kg	18.1	2.3	1	12/02/22 07:57	12/02/22 13:01	207-08-9	
Chrysene	<3.4	ug/kg	18.1	3.4	1	12/02/22 07:57	12/02/22 13:01	218-01-9	
Dibenz(a,h)anthracene	<2.5	ug/kg	18.1	2.5	1	12/02/22 07:57	12/02/22 13:01	53-70-3	
Fluoranthene	<2.1	ug/kg	18.1	2.1	1	12/02/22 07:57	12/02/22 13:01	206-44-0	
Fluorene	<2.2	ug/kg	18.1	2.2	1	12/02/22 07:57	12/02/22 13:01	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.8	ug/kg	18.1	3.8	1	12/02/22 07:57	12/02/22 13:01	193-39-5	
1-Methylnaphthalene	<2.6	ug/kg	18.1	2.6	1	12/02/22 07:57	12/02/22 13:01	90-12-0	
2-Methylnaphthalene	<2.6	ug/kg	18.1	2.6	1	12/02/22 07:57	12/02/22 13:01	91-57-6	
Naphthalene	<1.8	ug/kg	18.1	1.8	1	12/02/22 07:57	12/02/22 13:01	91-20-3	
Phenanthrene	<2.1	ug/kg	18.1	2.1	1	12/02/22 07:57	12/02/22 13:01	85-01-8	
Pyrene	<2.7	ug/kg	18.1	2.7	1	12/02/22 07:57	12/02/22 13:01	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	80	%	41-98		1	12/02/22 07:57	12/02/22 13:01	321-60-8	
Terphenyl-d14 (S)	76	%	37-106		1	12/02/22 07:57	12/02/22 13:01	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<13.8	ug/kg	23.2	13.8	1	12/07/22 08:30	12/07/22 14:42	71-43-2	
Bromobenzene	<22.6	ug/kg	58.1	22.6	1	12/07/22 08:30	12/07/22 14:42	108-86-1	
Bromochloromethane	<15.9	ug/kg	58.1	15.9	1	12/07/22 08:30	12/07/22 14:42	74-97-5	
Bromodichloromethane	<13.8	ug/kg	58.1	13.8	1	12/07/22 08:30	12/07/22 14:42	75-27-4	
Bromoform	<256	ug/kg	290	256	1	12/07/22 08:30	12/07/22 14:42	75-25-2	
Bromomethane	<81.4	ug/kg	290	81.4	1	12/07/22 08:30	12/07/22 14:42	74-83-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-2 Lab ID: 40255397002 Collected: 11/28/22 14:00 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
n-Butylbenzene	<26.6	ug/kg	58.1	26.6	1	12/07/22 08:30	12/07/22 14:42	104-51-8	
sec-Butylbenzene	<14.2	ug/kg	58.1	14.2	1	12/07/22 08:30	12/07/22 14:42	135-98-8	
tert-Butylbenzene	<18.2	ug/kg	58.1	18.2	1	12/07/22 08:30	12/07/22 14:42	98-06-6	
Carbon tetrachloride	<12.8	ug/kg	58.1	12.8	1	12/07/22 08:30	12/07/22 14:42	56-23-5	
Chlorobenzene	<7.0	ug/kg	58.1	7.0	1	12/07/22 08:30	12/07/22 14:42	108-90-7	
Chloroethane	<24.5	ug/kg	290	24.5	1	12/07/22 08:30	12/07/22 14:42	75-00-3	
Chloroform	<41.6	ug/kg	290	41.6	1	12/07/22 08:30	12/07/22 14:42	67-66-3	
Chloromethane	<22.1	ug/kg	58.1	22.1	1	12/07/22 08:30	12/07/22 14:42	74-87-3	
2-Chlorotoluene	<18.8	ug/kg	58.1	18.8	1	12/07/22 08:30	12/07/22 14:42	95-49-8	
4-Chlorotoluene	<22.1	ug/kg	58.1	22.1	1	12/07/22 08:30	12/07/22 14:42	106-43-4	
1,2-Dibromo-3-chloropropane	<45.1	ug/kg	290	45.1	1	12/07/22 08:30	12/07/22 14:42	96-12-8	
Dibromochloromethane	<198	ug/kg	290	198	1	12/07/22 08:30	12/07/22 14:42	124-48-1	
1,2-Dibromoethane (EDB)	<15.9	ug/kg	58.1	15.9	1	12/07/22 08:30	12/07/22 14:42	106-93-4	
Dibromomethane	<17.2	ug/kg	58.1	17.2	1	12/07/22 08:30	12/07/22 14:42	74-95-3	
1,2-Dichlorobenzene	<18.0	ug/kg	58.1	18.0	1	12/07/22 08:30	12/07/22 14:42	95-50-1	
1,3-Dichlorobenzene	<15.9	ug/kg	58.1	15.9	1	12/07/22 08:30	12/07/22 14:42	541-73-1	
1,4-Dichlorobenzene	<15.9	ug/kg	58.1	15.9	1	12/07/22 08:30	12/07/22 14:42	106-46-7	
Dichlorodifluoromethane	<25.0	ug/kg	58.1	25.0	1	12/07/22 08:30	12/07/22 14:42	75-71-8	L1
1,1-Dichloroethane	<14.9	ug/kg	58.1	14.9	1	12/07/22 08:30	12/07/22 14:42	75-34-3	
1,2-Dichloroethane	<13.4	ug/kg	58.1	13.4	1	12/07/22 08:30	12/07/22 14:42	107-06-2	
1,1-Dichloroethene	<19.3	ug/kg	58.1	19.3	1	12/07/22 08:30	12/07/22 14:42	75-35-4	
cis-1,2-Dichloroethene	<12.4	ug/kg	58.1	12.4	1	12/07/22 08:30	12/07/22 14:42	156-59-2	
trans-1,2-Dichloroethene	<12.5	ug/kg	58.1	12.5	1	12/07/22 08:30	12/07/22 14:42	156-60-5	
1,2-Dichloropropane	<13.8	ug/kg	58.1	13.8	1	12/07/22 08:30	12/07/22 14:42	78-87-5	
1,3-Dichloropropane	<12.7	ug/kg	58.1	12.7	1	12/07/22 08:30	12/07/22 14:42	142-28-9	
2,2-Dichloropropane	<15.7	ug/kg	58.1	15.7	1	12/07/22 08:30	12/07/22 14:42	594-20-7	
1,1-Dichloropropene	<18.8	ug/kg	58.1	18.8	1	12/07/22 08:30	12/07/22 14:42	563-58-6	
cis-1,3-Dichloropropene	<38.3	ug/kg	290	38.3	1	12/07/22 08:30	12/07/22 14:42	10061-01-5	
trans-1,3-Dichloropropene	<166	ug/kg	290	166	1	12/07/22 08:30	12/07/22 14:42	10061-02-6	
Diisopropyl ether	<14.4	ug/kg	58.1	14.4	1	12/07/22 08:30	12/07/22 14:42	108-20-3	
Ethylbenzene	<13.8	ug/kg	58.1	13.8	1	12/07/22 08:30	12/07/22 14:42	100-41-4	
Hexachloro-1,3-butadiene	<115	ug/kg	290	115	1	12/07/22 08:30	12/07/22 14:42	87-68-3	
Isopropylbenzene (Cumene)	<15.7	ug/kg	58.1	15.7	1	12/07/22 08:30	12/07/22 14:42	98-82-8	
p-Isopropyltoluene	<17.7	ug/kg	58.1	17.7	1	12/07/22 08:30	12/07/22 14:42	99-87-6	
Methylene Chloride	<16.1	ug/kg	58.1	16.1	1	12/07/22 08:30	12/07/22 14:42	75-09-2	
Methyl-tert-butyl ether	<17.1	ug/kg	58.1	17.1	1	12/07/22 08:30	12/07/22 14:42	1634-04-4	
Naphthalene	<18.1	ug/kg	290	18.1	1	12/07/22 08:30	12/07/22 14:42	91-20-3	
n-Propylbenzene	<13.9	ug/kg	58.1	13.9	1	12/07/22 08:30	12/07/22 14:42	103-65-1	
Styrene	<14.9	ug/kg	58.1	14.9	1	12/07/22 08:30	12/07/22 14:42	100-42-5	
1,1,1,2-Tetrachloroethane	<13.9	ug/kg	58.1	13.9	1	12/07/22 08:30	12/07/22 14:42	630-20-6	
1,1,1,2,2-Tetrachloroethane	<21.0	ug/kg	58.1	21.0	1	12/07/22 08:30	12/07/22 14:42	79-34-5	
Tetrachloroethene	<22.5	ug/kg	58.1	22.5	1	12/07/22 08:30	12/07/22 14:42	127-18-4	
Toluene	<14.6	ug/kg	58.1	14.6	1	12/07/22 08:30	12/07/22 14:42	108-88-3	
1,2,3-Trichlorobenzene	<64.7	ug/kg	290	64.7	1	12/07/22 08:30	12/07/22 14:42	87-61-6	

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-2 **Lab ID: 40255397002** Collected: 11/28/22 14:00 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<47.9	ug/kg	290	47.9	1	12/07/22 08:30	12/07/22 14:42	120-82-1	
1,1,1-Trichloroethane	<14.9	ug/kg	58.1	14.9	1	12/07/22 08:30	12/07/22 14:42	71-55-6	
1,1,2-Trichloroethane	<21.1	ug/kg	58.1	21.1	1	12/07/22 08:30	12/07/22 14:42	79-00-5	
Trichloroethene	<21.7	ug/kg	58.1	21.7	1	12/07/22 08:30	12/07/22 14:42	79-01-6	
Trichlorofluoromethane	<16.8	ug/kg	58.1	16.8	1	12/07/22 08:30	12/07/22 14:42	75-69-4	
1,2,3-Trichloropropane	<28.2	ug/kg	58.1	28.2	1	12/07/22 08:30	12/07/22 14:42	96-18-4	
1,2,4-Trimethylbenzene	<17.3	ug/kg	58.1	17.3	1	12/07/22 08:30	12/07/22 14:42	95-63-6	
1,3,5-Trimethylbenzene	<18.7	ug/kg	58.1	18.7	1	12/07/22 08:30	12/07/22 14:42	108-67-8	
Vinyl chloride	<11.7	ug/kg	58.1	11.7	1	12/07/22 08:30	12/07/22 14:42	75-01-4	
m&p-Xylene	<24.5	ug/kg	116	24.5	1	12/07/22 08:30	12/07/22 14:42	179601-23-1	
o-Xylene	<17.4	ug/kg	58.1	17.4	1	12/07/22 08:30	12/07/22 14:42	95-47-6	
Surrogates									
Toluene-d8 (S)	107	%	69-153		1	12/07/22 08:30	12/07/22 14:42	2037-26-5	
4-Bromofluorobenzene (S)	103	%	68-156		1	12/07/22 08:30	12/07/22 14:42	460-00-4	
1,2-Dichlorobenzene-d4 (S)	109	%	71-161		1	12/07/22 08:30	12/07/22 14:42	2199-69-1	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	7.5	%	0.10	0.10	1		12/01/22 15:12		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-3 **Lab ID: 40255397003** Collected: 11/28/22 13:30 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	2.7	mg/kg	2.7	1.6	1	12/02/22 06:42	12/02/22 22:18	7440-38-2	
Barium	113	mg/kg	0.54	0.16	1	12/02/22 06:42	12/02/22 22:18	7440-39-3	
Cadmium	<0.14	mg/kg	0.54	0.14	1	12/02/22 06:42	12/02/22 22:18	7440-43-9	
Chromium	13.3	mg/kg	1.1	0.30	1	12/02/22 06:42	12/02/22 22:18	7440-47-3	
Lead	8.8	mg/kg	2.2	0.64	1	12/02/22 06:42	12/02/22 22:18	7439-92-1	
Selenium	<1.4	mg/kg	4.3	1.4	1	12/02/22 06:42	12/02/22 22:18	7782-49-2	
Silver	<0.33	mg/kg	1.1	0.33	1	12/02/22 06:42	12/02/22 22:18	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	0.027J	mg/kg	0.036	0.010	1	12/05/22 09:55	12/06/22 09:01	7439-97-6	
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<2.4	ug/kg	18.3	2.4	1	12/02/22 07:57	12/02/22 13:19	83-32-9	
Acenaphthylene	<2.3	ug/kg	18.3	2.3	1	12/02/22 07:57	12/02/22 13:19	208-96-8	
Anthracene	<2.3	ug/kg	18.3	2.3	1	12/02/22 07:57	12/02/22 13:19	120-12-7	
Benzo(a)anthracene	2.4J	ug/kg	18.3	2.4	1	12/02/22 07:57	12/02/22 13:19	56-55-3	
Benzo(a)pyrene	<2.1	ug/kg	18.3	2.1	1	12/02/22 07:57	12/02/22 13:19	50-32-8	
Benzo(b)fluoranthene	<2.5	ug/kg	18.3	2.5	1	12/02/22 07:57	12/02/22 13:19	205-99-2	
Benzo(g,h,i)perylene	<3.2	ug/kg	18.3	3.2	1	12/02/22 07:57	12/02/22 13:19	191-24-2	
Benzo(k)fluoranthene	<2.3	ug/kg	18.3	2.3	1	12/02/22 07:57	12/02/22 13:19	207-08-9	
Chrysene	<3.5	ug/kg	18.3	3.5	1	12/02/22 07:57	12/02/22 13:19	218-01-9	
Dibenz(a,h)anthracene	<2.5	ug/kg	18.3	2.5	1	12/02/22 07:57	12/02/22 13:19	53-70-3	
Fluoranthene	<2.2	ug/kg	18.3	2.2	1	12/02/22 07:57	12/02/22 13:19	206-44-0	
Fluorene	<2.2	ug/kg	18.3	2.2	1	12/02/22 07:57	12/02/22 13:19	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.8	ug/kg	18.3	3.8	1	12/02/22 07:57	12/02/22 13:19	193-39-5	
1-Methylnaphthalene	<2.7	ug/kg	18.3	2.7	1	12/02/22 07:57	12/02/22 13:19	90-12-0	
2-Methylnaphthalene	<2.7	ug/kg	18.3	2.7	1	12/02/22 07:57	12/02/22 13:19	91-57-6	
Naphthalene	<1.8	ug/kg	18.3	1.8	1	12/02/22 07:57	12/02/22 13:19	91-20-3	
Phenanthrene	<2.1	ug/kg	18.3	2.1	1	12/02/22 07:57	12/02/22 13:19	85-01-8	
Pyrene	<2.7	ug/kg	18.3	2.7	1	12/02/22 07:57	12/02/22 13:19	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	66	%	41-98		1	12/02/22 07:57	12/02/22 13:19	321-60-8	
Terphenyl-d14 (S)	64	%	37-106		1	12/02/22 07:57	12/02/22 13:19	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<14.2	ug/kg	23.9	14.2	1	12/07/22 08:30	12/07/22 15:02	71-43-2	
Bromobenzene	<23.3	ug/kg	59.8	23.3	1	12/07/22 08:30	12/07/22 15:02	108-86-1	
Bromochloromethane	<16.4	ug/kg	59.8	16.4	1	12/07/22 08:30	12/07/22 15:02	74-97-5	
Bromodichloromethane	<14.2	ug/kg	59.8	14.2	1	12/07/22 08:30	12/07/22 15:02	75-27-4	
Bromoform	<263	ug/kg	299	263	1	12/07/22 08:30	12/07/22 15:02	75-25-2	
Bromomethane	<83.8	ug/kg	299	83.8	1	12/07/22 08:30	12/07/22 15:02	74-83-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-3 **Lab ID: 40255397003** Collected: 11/28/22 13:30 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
n-Butylbenzene	<27.4	ug/kg	59.8	27.4	1	12/07/22 08:30	12/07/22 15:02	104-51-8	
sec-Butylbenzene	<14.6	ug/kg	59.8	14.6	1	12/07/22 08:30	12/07/22 15:02	135-98-8	
tert-Butylbenzene	<18.8	ug/kg	59.8	18.8	1	12/07/22 08:30	12/07/22 15:02	98-06-6	
Carbon tetrachloride	<13.1	ug/kg	59.8	13.1	1	12/07/22 08:30	12/07/22 15:02	56-23-5	
Chlorobenzene	<7.2	ug/kg	59.8	7.2	1	12/07/22 08:30	12/07/22 15:02	108-90-7	
Chloroethane	<25.2	ug/kg	299	25.2	1	12/07/22 08:30	12/07/22 15:02	75-00-3	
Chloroform	<42.8	ug/kg	299	42.8	1	12/07/22 08:30	12/07/22 15:02	67-66-3	
Chloromethane	<22.7	ug/kg	59.8	22.7	1	12/07/22 08:30	12/07/22 15:02	74-87-3	
2-Chlorotoluene	<19.4	ug/kg	59.8	19.4	1	12/07/22 08:30	12/07/22 15:02	95-49-8	
4-Chlorotoluene	<22.7	ug/kg	59.8	22.7	1	12/07/22 08:30	12/07/22 15:02	106-43-4	
1,2-Dibromo-3-chloropropane	<46.4	ug/kg	299	46.4	1	12/07/22 08:30	12/07/22 15:02	96-12-8	
Dibromochloromethane	<204	ug/kg	299	204	1	12/07/22 08:30	12/07/22 15:02	124-48-1	
1,2-Dibromoethane (EDB)	<16.4	ug/kg	59.8	16.4	1	12/07/22 08:30	12/07/22 15:02	106-93-4	
Dibromomethane	<17.7	ug/kg	59.8	17.7	1	12/07/22 08:30	12/07/22 15:02	74-95-3	
1,2-Dichlorobenzene	<18.5	ug/kg	59.8	18.5	1	12/07/22 08:30	12/07/22 15:02	95-50-1	
1,3-Dichlorobenzene	<16.4	ug/kg	59.8	16.4	1	12/07/22 08:30	12/07/22 15:02	541-73-1	
1,4-Dichlorobenzene	<16.4	ug/kg	59.8	16.4	1	12/07/22 08:30	12/07/22 15:02	106-46-7	
Dichlorodifluoromethane	<25.7	ug/kg	59.8	25.7	1	12/07/22 08:30	12/07/22 15:02	75-71-8	L1
1,1-Dichloroethane	<15.3	ug/kg	59.8	15.3	1	12/07/22 08:30	12/07/22 15:02	75-34-3	
1,2-Dichloroethane	<13.7	ug/kg	59.8	13.7	1	12/07/22 08:30	12/07/22 15:02	107-06-2	
1,1-Dichloroethene	<19.8	ug/kg	59.8	19.8	1	12/07/22 08:30	12/07/22 15:02	75-35-4	
cis-1,2-Dichloroethene	<12.8	ug/kg	59.8	12.8	1	12/07/22 08:30	12/07/22 15:02	156-59-2	
trans-1,2-Dichloroethene	<12.9	ug/kg	59.8	12.9	1	12/07/22 08:30	12/07/22 15:02	156-60-5	
1,2-Dichloropropane	<14.2	ug/kg	59.8	14.2	1	12/07/22 08:30	12/07/22 15:02	78-87-5	
1,3-Dichloropropane	<13.0	ug/kg	59.8	13.0	1	12/07/22 08:30	12/07/22 15:02	142-28-9	
2,2-Dichloropropane	<16.1	ug/kg	59.8	16.1	1	12/07/22 08:30	12/07/22 15:02	594-20-7	
1,1-Dichloropropene	<19.4	ug/kg	59.8	19.4	1	12/07/22 08:30	12/07/22 15:02	563-58-6	
cis-1,3-Dichloropropene	<39.4	ug/kg	299	39.4	1	12/07/22 08:30	12/07/22 15:02	10061-01-5	
trans-1,3-Dichloropropene	<171	ug/kg	299	171	1	12/07/22 08:30	12/07/22 15:02	10061-02-6	
Diisopropyl ether	<14.8	ug/kg	59.8	14.8	1	12/07/22 08:30	12/07/22 15:02	108-20-3	
Ethylbenzene	<14.2	ug/kg	59.8	14.2	1	12/07/22 08:30	12/07/22 15:02	100-41-4	
Hexachloro-1,3-butadiene	<119	ug/kg	299	119	1	12/07/22 08:30	12/07/22 15:02	87-68-3	
Isopropylbenzene (Cumene)	<16.1	ug/kg	59.8	16.1	1	12/07/22 08:30	12/07/22 15:02	98-82-8	
p-Isopropyltoluene	<18.2	ug/kg	59.8	18.2	1	12/07/22 08:30	12/07/22 15:02	99-87-6	
Methylene Chloride	<16.6	ug/kg	59.8	16.6	1	12/07/22 08:30	12/07/22 15:02	75-09-2	
Methyl-tert-butyl ether	<17.6	ug/kg	59.8	17.6	1	12/07/22 08:30	12/07/22 15:02	1634-04-4	
Naphthalene	<18.6	ug/kg	299	18.6	1	12/07/22 08:30	12/07/22 15:02	91-20-3	
n-Propylbenzene	<14.3	ug/kg	59.8	14.3	1	12/07/22 08:30	12/07/22 15:02	103-65-1	
Styrene	<15.3	ug/kg	59.8	15.3	1	12/07/22 08:30	12/07/22 15:02	100-42-5	
1,1,1,2-Tetrachloroethane	<14.3	ug/kg	59.8	14.3	1	12/07/22 08:30	12/07/22 15:02	630-20-6	
1,1,1,2,2-Tetrachloroethane	<21.6	ug/kg	59.8	21.6	1	12/07/22 08:30	12/07/22 15:02	79-34-5	
Tetrachloroethene	<23.2	ug/kg	59.8	23.2	1	12/07/22 08:30	12/07/22 15:02	127-18-4	
Toluene	<15.1	ug/kg	59.8	15.1	1	12/07/22 08:30	12/07/22 15:02	108-88-3	
1,2,3-Trichlorobenzene	<66.6	ug/kg	299	66.6	1	12/07/22 08:30	12/07/22 15:02	87-61-6	

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-3 **Lab ID: 40255397003** Collected: 11/28/22 13:30 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<49.2	ug/kg	299	49.2	1	12/07/22 08:30	12/07/22 15:02	120-82-1	
1,1,1-Trichloroethane	<15.3	ug/kg	59.8	15.3	1	12/07/22 08:30	12/07/22 15:02	71-55-6	
1,1,2-Trichloroethane	<21.8	ug/kg	59.8	21.8	1	12/07/22 08:30	12/07/22 15:02	79-00-5	
Trichloroethene	<22.4	ug/kg	59.8	22.4	1	12/07/22 08:30	12/07/22 15:02	79-01-6	
Trichlorofluoromethane	<17.3	ug/kg	59.8	17.3	1	12/07/22 08:30	12/07/22 15:02	75-69-4	
1,2,3-Trichloropropane	<29.0	ug/kg	59.8	29.0	1	12/07/22 08:30	12/07/22 15:02	96-18-4	
1,2,4-Trimethylbenzene	<17.8	ug/kg	59.8	17.8	1	12/07/22 08:30	12/07/22 15:02	95-63-6	
1,3,5-Trimethylbenzene	<19.2	ug/kg	59.8	19.2	1	12/07/22 08:30	12/07/22 15:02	108-67-8	
Vinyl chloride	<12.1	ug/kg	59.8	12.1	1	12/07/22 08:30	12/07/22 15:02	75-01-4	
m&p-Xylene	<25.2	ug/kg	120	25.2	1	12/07/22 08:30	12/07/22 15:02	179601-23-1	
o-Xylene	<17.9	ug/kg	59.8	17.9	1	12/07/22 08:30	12/07/22 15:02	95-47-6	
Surrogates									
Toluene-d8 (S)	122	%	69-153		1	12/07/22 08:30	12/07/22 15:02	2037-26-5	
4-Bromofluorobenzene (S)	117	%	68-156		1	12/07/22 08:30	12/07/22 15:02	460-00-4	
1,2-Dichlorobenzene-d4 (S)	118	%	71-161		1	12/07/22 08:30	12/07/22 15:02	2199-69-1	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	8.9	%	0.10	0.10	1		12/01/22 15:12		

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

Sample: SB-4 **Lab ID: 40255397004** Collected: 11/28/22 13:45 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	3.2	mg/kg	2.7	1.6	1	12/02/22 06:42	12/02/22 22:20	7440-38-2	
Barium	106	mg/kg	0.54	0.16	1	12/02/22 06:42	12/02/22 22:20	7440-39-3	
Cadmium	<0.14	mg/kg	0.54	0.14	1	12/02/22 06:42	12/02/22 22:20	7440-43-9	
Chromium	12.4	mg/kg	1.1	0.30	1	12/02/22 06:42	12/02/22 22:20	7440-47-3	
Lead	9.6	mg/kg	2.2	0.65	1	12/02/22 06:42	12/02/22 22:20	7439-92-1	
Selenium	<1.4	mg/kg	4.3	1.4	1	12/02/22 06:42	12/02/22 22:20	7782-49-2	
Silver	<0.33	mg/kg	1.1	0.33	1	12/02/22 06:42	12/02/22 22:20	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	0.056	mg/kg	0.038	0.011	1	12/05/22 09:55	12/06/22 09:03	7439-97-6	
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<2.4	ug/kg	18.9	2.4	1	12/02/22 07:57	12/02/22 13:36	83-32-9	
Acenaphthylene	<2.4	ug/kg	18.9	2.4	1	12/02/22 07:57	12/02/22 13:36	208-96-8	
Anthracene	<2.3	ug/kg	18.9	2.3	1	12/02/22 07:57	12/02/22 13:36	120-12-7	
Benzo(a)anthracene	19.2	ug/kg	18.9	2.4	1	12/02/22 07:57	12/02/22 13:36	56-55-3	
Benzo(a)pyrene	17.2J	ug/kg	18.9	2.1	1	12/02/22 07:57	12/02/22 13:36	50-32-8	
Benzo(b)fluoranthene	23.9	ug/kg	18.9	2.6	1	12/02/22 07:57	12/02/22 13:36	205-99-2	
Benzo(g,h,i)perylene	10.7J	ug/kg	18.9	3.3	1	12/02/22 07:57	12/02/22 13:36	191-24-2	
Benzo(k)fluoranthene	12.2J	ug/kg	18.9	2.4	1	12/02/22 07:57	12/02/22 13:36	207-08-9	
Chrysene	18.1J	ug/kg	18.9	3.6	1	12/02/22 07:57	12/02/22 13:36	218-01-9	
Dibenz(a,h)anthracene	3.1J	ug/kg	18.9	2.6	1	12/02/22 07:57	12/02/22 13:36	53-70-3	
Fluoranthene	34.3	ug/kg	18.9	2.2	1	12/02/22 07:57	12/02/22 13:36	206-44-0	
Fluorene	<2.3	ug/kg	18.9	2.3	1	12/02/22 07:57	12/02/22 13:36	86-73-7	
Indeno(1,2,3-cd)pyrene	9.3J	ug/kg	18.9	3.9	1	12/02/22 07:57	12/02/22 13:36	193-39-5	
1-Methylnaphthalene	<2.8	ug/kg	18.9	2.8	1	12/02/22 07:57	12/02/22 13:36	90-12-0	
2-Methylnaphthalene	<2.8	ug/kg	18.9	2.8	1	12/02/22 07:57	12/02/22 13:36	91-57-6	
Naphthalene	<1.8	ug/kg	18.9	1.8	1	12/02/22 07:57	12/02/22 13:36	91-20-3	
Phenanthrene	3.7J	ug/kg	18.9	2.2	1	12/02/22 07:57	12/02/22 13:36	85-01-8	
Pyrene	26.3	ug/kg	18.9	2.8	1	12/02/22 07:57	12/02/22 13:36	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	63	%	41-98		1	12/02/22 07:57	12/02/22 13:36	321-60-8	
Terphenyl-d14 (S)	60	%	37-106		1	12/02/22 07:57	12/02/22 13:36	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<15.0	ug/kg	25.2	15.0	1	12/07/22 08:30	12/07/22 15:23	71-43-2	
Bromobenzene	<24.6	ug/kg	63.0	24.6	1	12/07/22 08:30	12/07/22 15:23	108-86-1	
Bromochloromethane	<17.3	ug/kg	63.0	17.3	1	12/07/22 08:30	12/07/22 15:23	74-97-5	
Bromodichloromethane	<15.0	ug/kg	63.0	15.0	1	12/07/22 08:30	12/07/22 15:23	75-27-4	
Bromoform	<277	ug/kg	315	277	1	12/07/22 08:30	12/07/22 15:23	75-25-2	
Bromomethane	<88.3	ug/kg	315	88.3	1	12/07/22 08:30	12/07/22 15:23	74-83-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-4 **Lab ID: 40255397004** Collected: 11/28/22 13:45 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
n-Butylbenzene	<28.8	ug/kg	63.0	28.8	1	12/07/22 08:30	12/07/22 15:23	104-51-8	
sec-Butylbenzene	<15.4	ug/kg	63.0	15.4	1	12/07/22 08:30	12/07/22 15:23	135-98-8	
tert-Butylbenzene	<19.8	ug/kg	63.0	19.8	1	12/07/22 08:30	12/07/22 15:23	98-06-6	
Carbon tetrachloride	<13.9	ug/kg	63.0	13.9	1	12/07/22 08:30	12/07/22 15:23	56-23-5	
Chlorobenzene	<7.5	ug/kg	63.0	7.5	1	12/07/22 08:30	12/07/22 15:23	108-90-7	
Chloroethane	<26.6	ug/kg	315	26.6	1	12/07/22 08:30	12/07/22 15:23	75-00-3	
Chloroform	<45.1	ug/kg	315	45.1	1	12/07/22 08:30	12/07/22 15:23	67-66-3	
Chloromethane	<23.9	ug/kg	63.0	23.9	1	12/07/22 08:30	12/07/22 15:23	74-87-3	
2-Chlorotoluene	<20.4	ug/kg	63.0	20.4	1	12/07/22 08:30	12/07/22 15:23	95-49-8	
4-Chlorotoluene	<23.9	ug/kg	63.0	23.9	1	12/07/22 08:30	12/07/22 15:23	106-43-4	
1,2-Dibromo-3-chloropropane	<48.9	ug/kg	315	48.9	1	12/07/22 08:30	12/07/22 15:23	96-12-8	
Dibromochloromethane	<215	ug/kg	315	215	1	12/07/22 08:30	12/07/22 15:23	124-48-1	
1,2-Dibromoethane (EDB)	<17.3	ug/kg	63.0	17.3	1	12/07/22 08:30	12/07/22 15:23	106-93-4	
Dibromomethane	<18.6	ug/kg	63.0	18.6	1	12/07/22 08:30	12/07/22 15:23	74-95-3	
1,2-Dichlorobenzene	<19.5	ug/kg	63.0	19.5	1	12/07/22 08:30	12/07/22 15:23	95-50-1	
1,3-Dichlorobenzene	<17.3	ug/kg	63.0	17.3	1	12/07/22 08:30	12/07/22 15:23	541-73-1	
1,4-Dichlorobenzene	<17.3	ug/kg	63.0	17.3	1	12/07/22 08:30	12/07/22 15:23	106-46-7	
Dichlorodifluoromethane	<27.1	ug/kg	63.0	27.1	1	12/07/22 08:30	12/07/22 15:23	75-71-8	L1
1,1-Dichloroethane	<16.1	ug/kg	63.0	16.1	1	12/07/22 08:30	12/07/22 15:23	75-34-3	
1,2-Dichloroethane	<14.5	ug/kg	63.0	14.5	1	12/07/22 08:30	12/07/22 15:23	107-06-2	
1,1-Dichloroethene	<20.9	ug/kg	63.0	20.9	1	12/07/22 08:30	12/07/22 15:23	75-35-4	
cis-1,2-Dichloroethene	<13.5	ug/kg	63.0	13.5	1	12/07/22 08:30	12/07/22 15:23	156-59-2	
trans-1,2-Dichloroethene	<13.6	ug/kg	63.0	13.6	1	12/07/22 08:30	12/07/22 15:23	156-60-5	
1,2-Dichloropropane	<15.0	ug/kg	63.0	15.0	1	12/07/22 08:30	12/07/22 15:23	78-87-5	
1,3-Dichloropropane	<13.7	ug/kg	63.0	13.7	1	12/07/22 08:30	12/07/22 15:23	142-28-9	
2,2-Dichloropropane	<17.0	ug/kg	63.0	17.0	1	12/07/22 08:30	12/07/22 15:23	594-20-7	
1,1-Dichloropropene	<20.4	ug/kg	63.0	20.4	1	12/07/22 08:30	12/07/22 15:23	563-58-6	
cis-1,3-Dichloropropene	<41.6	ug/kg	315	41.6	1	12/07/22 08:30	12/07/22 15:23	10061-01-5	
trans-1,3-Dichloropropene	<180	ug/kg	315	180	1	12/07/22 08:30	12/07/22 15:23	10061-02-6	
Diisopropyl ether	<15.6	ug/kg	63.0	15.6	1	12/07/22 08:30	12/07/22 15:23	108-20-3	
Ethylbenzene	<15.0	ug/kg	63.0	15.0	1	12/07/22 08:30	12/07/22 15:23	100-41-4	
Hexachloro-1,3-butadiene	<125	ug/kg	315	125	1	12/07/22 08:30	12/07/22 15:23	87-68-3	
Isopropylbenzene (Cumene)	<17.0	ug/kg	63.0	17.0	1	12/07/22 08:30	12/07/22 15:23	98-82-8	
p-Isopropyltoluene	<19.1	ug/kg	63.0	19.1	1	12/07/22 08:30	12/07/22 15:23	99-87-6	
Methylene Chloride	<17.5	ug/kg	63.0	17.5	1	12/07/22 08:30	12/07/22 15:23	75-09-2	
Methyl-tert-butyl ether	<18.5	ug/kg	63.0	18.5	1	12/07/22 08:30	12/07/22 15:23	1634-04-4	
Naphthalene	<19.6	ug/kg	315	19.6	1	12/07/22 08:30	12/07/22 15:23	91-20-3	
n-Propylbenzene	<15.1	ug/kg	63.0	15.1	1	12/07/22 08:30	12/07/22 15:23	103-65-1	
Styrene	<16.1	ug/kg	63.0	16.1	1	12/07/22 08:30	12/07/22 15:23	100-42-5	
1,1,1,2-Tetrachloroethane	<15.1	ug/kg	63.0	15.1	1	12/07/22 08:30	12/07/22 15:23	630-20-6	
1,1,1,2,2-Tetrachloroethane	<22.8	ug/kg	63.0	22.8	1	12/07/22 08:30	12/07/22 15:23	79-34-5	
Tetrachloroethene	<24.4	ug/kg	63.0	24.4	1	12/07/22 08:30	12/07/22 15:23	127-18-4	
Toluene	<15.9	ug/kg	63.0	15.9	1	12/07/22 08:30	12/07/22 15:23	108-88-3	
1,2,3-Trichlorobenzene	<70.1	ug/kg	315	70.1	1	12/07/22 08:30	12/07/22 15:23	87-61-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-4 **Lab ID: 40255397004** Collected: 11/28/22 13:45 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<51.9	ug/kg	315	51.9	1	12/07/22 08:30	12/07/22 15:23	120-82-1	
1,1,1-Trichloroethane	<16.1	ug/kg	63.0	16.1	1	12/07/22 08:30	12/07/22 15:23	71-55-6	
1,1,2-Trichloroethane	<22.9	ug/kg	63.0	22.9	1	12/07/22 08:30	12/07/22 15:23	79-00-5	
Trichloroethene	<23.5	ug/kg	63.0	23.5	1	12/07/22 08:30	12/07/22 15:23	79-01-6	
Trichlorofluoromethane	<18.3	ug/kg	63.0	18.3	1	12/07/22 08:30	12/07/22 15:23	75-69-4	
1,2,3-Trichloropropane	<30.6	ug/kg	63.0	30.6	1	12/07/22 08:30	12/07/22 15:23	96-18-4	
1,2,4-Trimethylbenzene	<18.8	ug/kg	63.0	18.8	1	12/07/22 08:30	12/07/22 15:23	95-63-6	
1,3,5-Trimethylbenzene	<20.3	ug/kg	63.0	20.3	1	12/07/22 08:30	12/07/22 15:23	108-67-8	
Vinyl chloride	<12.7	ug/kg	63.0	12.7	1	12/07/22 08:30	12/07/22 15:23	75-01-4	
m&p-Xylene	<26.6	ug/kg	126	26.6	1	12/07/22 08:30	12/07/22 15:23	179601-23-1	
o-Xylene	<18.9	ug/kg	63.0	18.9	1	12/07/22 08:30	12/07/22 15:23	95-47-6	
Surrogates									
Toluene-d8 (S)	125	%	69-153		1	12/07/22 08:30	12/07/22 15:23	2037-26-5	
4-Bromofluorobenzene (S)	121	%	68-156		1	12/07/22 08:30	12/07/22 15:23	460-00-4	
1,2-Dichlorobenzene-d4 (S)	124	%	71-161		1	12/07/22 08:30	12/07/22 15:23	2199-69-1	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	11.5	%	0.10	0.10	1		12/01/22 15:12		

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

Sample: SB-5 **Lab ID: 40255397005** Collected: 11/28/22 14:15 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	<1.4	mg/kg	2.4	1.4	1	12/02/22 06:42	12/02/22 22:23	7440-38-2	
Barium	44.3	mg/kg	0.48	0.14	1	12/02/22 06:42	12/02/22 22:23	7440-39-3	
Cadmium	<0.13	mg/kg	0.48	0.13	1	12/02/22 06:42	12/02/22 22:23	7440-43-9	
Chromium	9.4	mg/kg	0.96	0.27	1	12/02/22 06:42	12/02/22 22:23	7440-47-3	
Lead	4.4	mg/kg	1.9	0.58	1	12/02/22 06:42	12/02/22 22:23	7439-92-1	
Selenium	<1.3	mg/kg	3.9	1.3	1	12/02/22 06:42	12/02/22 22:23	7782-49-2	
Silver	<0.30	mg/kg	0.96	0.30	1	12/02/22 06:42	12/02/22 22:23	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.0095	mg/kg	0.033	0.0095	1	12/05/22 09:55	12/06/22 09:05	7439-97-6	
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<2.2	ug/kg	17.2	2.2	1	12/02/22 07:57	12/02/22 13:53	83-32-9	
Acenaphthylene	<2.2	ug/kg	17.2	2.2	1	12/02/22 07:57	12/02/22 13:53	208-96-8	
Anthracene	<2.1	ug/kg	17.2	2.1	1	12/02/22 07:57	12/02/22 13:53	120-12-7	
Benzo(a)anthracene	<2.2	ug/kg	17.2	2.2	1	12/02/22 07:57	12/02/22 13:53	56-55-3	
Benzo(a)pyrene	<2.0	ug/kg	17.2	2.0	1	12/02/22 07:57	12/02/22 13:53	50-32-8	
Benzo(b)fluoranthene	<2.4	ug/kg	17.2	2.4	1	12/02/22 07:57	12/02/22 13:53	205-99-2	
Benzo(g,h,i)perylene	<3.0	ug/kg	17.2	3.0	1	12/02/22 07:57	12/02/22 13:53	191-24-2	
Benzo(k)fluoranthene	<2.2	ug/kg	17.2	2.2	1	12/02/22 07:57	12/02/22 13:53	207-08-9	
Chrysene	<3.2	ug/kg	17.2	3.2	1	12/02/22 07:57	12/02/22 13:53	218-01-9	
Dibenz(a,h)anthracene	<2.4	ug/kg	17.2	2.4	1	12/02/22 07:57	12/02/22 13:53	53-70-3	
Fluoranthene	<2.0	ug/kg	17.2	2.0	1	12/02/22 07:57	12/02/22 13:53	206-44-0	
Fluorene	<2.1	ug/kg	17.2	2.1	1	12/02/22 07:57	12/02/22 13:53	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.6	ug/kg	17.2	3.6	1	12/02/22 07:57	12/02/22 13:53	193-39-5	
1-Methylnaphthalene	<2.5	ug/kg	17.2	2.5	1	12/02/22 07:57	12/02/22 13:53	90-12-0	
2-Methylnaphthalene	<2.5	ug/kg	17.2	2.5	1	12/02/22 07:57	12/02/22 13:53	91-57-6	
Naphthalene	<1.7	ug/kg	17.2	1.7	1	12/02/22 07:57	12/02/22 13:53	91-20-3	
Phenanthrene	<2.0	ug/kg	17.2	2.0	1	12/02/22 07:57	12/02/22 13:53	85-01-8	
Pyrene	<2.5	ug/kg	17.2	2.5	1	12/02/22 07:57	12/02/22 13:53	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	70	%	41-98		1	12/02/22 07:57	12/02/22 13:53	321-60-8	
Terphenyl-d14 (S)	68	%	37-106		1	12/02/22 07:57	12/02/22 13:53	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<12.6	ug/kg	21.1	12.6	1	12/07/22 08:30	12/07/22 15:43	71-43-2	
Bromobenzene	<20.6	ug/kg	52.7	20.6	1	12/07/22 08:30	12/07/22 15:43	108-86-1	
Bromochloromethane	<14.5	ug/kg	52.7	14.5	1	12/07/22 08:30	12/07/22 15:43	74-97-5	
Bromodichloromethane	<12.6	ug/kg	52.7	12.6	1	12/07/22 08:30	12/07/22 15:43	75-27-4	
Bromoform	<232	ug/kg	264	232	1	12/07/22 08:30	12/07/22 15:43	75-25-2	
Bromomethane	<74.0	ug/kg	264	74.0	1	12/07/22 08:30	12/07/22 15:43	74-83-9	

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

Sample: SB-5 Lab ID: 40255397005 Collected: 11/28/22 14:15 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
n-Butylbenzene	<24.2	ug/kg	52.7	24.2	1	12/07/22 08:30	12/07/22 15:43	104-51-8	
sec-Butylbenzene	<12.9	ug/kg	52.7	12.9	1	12/07/22 08:30	12/07/22 15:43	135-98-8	
tert-Butylbenzene	<16.6	ug/kg	52.7	16.6	1	12/07/22 08:30	12/07/22 15:43	98-06-6	
Carbon tetrachloride	<11.6	ug/kg	52.7	11.6	1	12/07/22 08:30	12/07/22 15:43	56-23-5	
Chlorobenzene	<6.3	ug/kg	52.7	6.3	1	12/07/22 08:30	12/07/22 15:43	108-90-7	
Chloroethane	<22.3	ug/kg	264	22.3	1	12/07/22 08:30	12/07/22 15:43	75-00-3	
Chloroform	<37.8	ug/kg	264	37.8	1	12/07/22 08:30	12/07/22 15:43	67-66-3	
Chloromethane	<20.0	ug/kg	52.7	20.0	1	12/07/22 08:30	12/07/22 15:43	74-87-3	
2-Chlorotoluene	<17.1	ug/kg	52.7	17.1	1	12/07/22 08:30	12/07/22 15:43	95-49-8	
4-Chlorotoluene	<20.0	ug/kg	52.7	20.0	1	12/07/22 08:30	12/07/22 15:43	106-43-4	
1,2-Dibromo-3-chloropropane	<40.9	ug/kg	264	40.9	1	12/07/22 08:30	12/07/22 15:43	96-12-8	
Dibromochloromethane	<180	ug/kg	264	180	1	12/07/22 08:30	12/07/22 15:43	124-48-1	
1,2-Dibromoethane (EDB)	<14.5	ug/kg	52.7	14.5	1	12/07/22 08:30	12/07/22 15:43	106-93-4	
Dibromomethane	<15.6	ug/kg	52.7	15.6	1	12/07/22 08:30	12/07/22 15:43	74-95-3	
1,2-Dichlorobenzene	<16.4	ug/kg	52.7	16.4	1	12/07/22 08:30	12/07/22 15:43	95-50-1	
1,3-Dichlorobenzene	<14.5	ug/kg	52.7	14.5	1	12/07/22 08:30	12/07/22 15:43	541-73-1	
1,4-Dichlorobenzene	<14.5	ug/kg	52.7	14.5	1	12/07/22 08:30	12/07/22 15:43	106-46-7	
Dichlorodifluoromethane	<22.7	ug/kg	52.7	22.7	1	12/07/22 08:30	12/07/22 15:43	75-71-8	L1
1,1-Dichloroethane	<13.5	ug/kg	52.7	13.5	1	12/07/22 08:30	12/07/22 15:43	75-34-3	
1,2-Dichloroethane	<12.1	ug/kg	52.7	12.1	1	12/07/22 08:30	12/07/22 15:43	107-06-2	
1,1-Dichloroethene	<17.5	ug/kg	52.7	17.5	1	12/07/22 08:30	12/07/22 15:43	75-35-4	
cis-1,2-Dichloroethene	<11.3	ug/kg	52.7	11.3	1	12/07/22 08:30	12/07/22 15:43	156-59-2	
trans-1,2-Dichloroethene	<11.4	ug/kg	52.7	11.4	1	12/07/22 08:30	12/07/22 15:43	156-60-5	
1,2-Dichloropropane	<12.6	ug/kg	52.7	12.6	1	12/07/22 08:30	12/07/22 15:43	78-87-5	
1,3-Dichloropropane	<11.5	ug/kg	52.7	11.5	1	12/07/22 08:30	12/07/22 15:43	142-28-9	
2,2-Dichloropropane	<14.2	ug/kg	52.7	14.2	1	12/07/22 08:30	12/07/22 15:43	594-20-7	
1,1-Dichloropropene	<17.1	ug/kg	52.7	17.1	1	12/07/22 08:30	12/07/22 15:43	563-58-6	
cis-1,3-Dichloropropene	<34.8	ug/kg	264	34.8	1	12/07/22 08:30	12/07/22 15:43	10061-01-5	
trans-1,3-Dichloropropene	<151	ug/kg	264	151	1	12/07/22 08:30	12/07/22 15:43	10061-02-6	
Diisopropyl ether	<13.1	ug/kg	52.7	13.1	1	12/07/22 08:30	12/07/22 15:43	108-20-3	
Ethylbenzene	<12.6	ug/kg	52.7	12.6	1	12/07/22 08:30	12/07/22 15:43	100-41-4	
Hexachloro-1,3-butadiene	<105	ug/kg	264	105	1	12/07/22 08:30	12/07/22 15:43	87-68-3	
Isopropylbenzene (Cumene)	<14.2	ug/kg	52.7	14.2	1	12/07/22 08:30	12/07/22 15:43	98-82-8	
p-Isopropyltoluene	<16.0	ug/kg	52.7	16.0	1	12/07/22 08:30	12/07/22 15:43	99-87-6	
Methylene Chloride	<14.7	ug/kg	52.7	14.7	1	12/07/22 08:30	12/07/22 15:43	75-09-2	
Methyl-tert-butyl ether	<15.5	ug/kg	52.7	15.5	1	12/07/22 08:30	12/07/22 15:43	1634-04-4	
Naphthalene	<16.5	ug/kg	264	16.5	1	12/07/22 08:30	12/07/22 15:43	91-20-3	
n-Propylbenzene	<12.7	ug/kg	52.7	12.7	1	12/07/22 08:30	12/07/22 15:43	103-65-1	
Styrene	<13.5	ug/kg	52.7	13.5	1	12/07/22 08:30	12/07/22 15:43	100-42-5	
1,1,1,2-Tetrachloroethane	<12.7	ug/kg	52.7	12.7	1	12/07/22 08:30	12/07/22 15:43	630-20-6	
1,1,1,2,2-Tetrachloroethane	<19.1	ug/kg	52.7	19.1	1	12/07/22 08:30	12/07/22 15:43	79-34-5	
Tetrachloroethene	<20.5	ug/kg	52.7	20.5	1	12/07/22 08:30	12/07/22 15:43	127-18-4	
Toluene	<13.3	ug/kg	52.7	13.3	1	12/07/22 08:30	12/07/22 15:43	108-88-3	
1,2,3-Trichlorobenzene	<58.8	ug/kg	264	58.8	1	12/07/22 08:30	12/07/22 15:43	87-61-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-5 **Lab ID: 40255397005** Collected: 11/28/22 14:15 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<43.5	ug/kg	264	43.5	1	12/07/22 08:30	12/07/22 15:43	120-82-1	
1,1,1-Trichloroethane	<13.5	ug/kg	52.7	13.5	1	12/07/22 08:30	12/07/22 15:43	71-55-6	
1,1,2-Trichloroethane	<19.2	ug/kg	52.7	19.2	1	12/07/22 08:30	12/07/22 15:43	79-00-5	
Trichloroethene	<19.7	ug/kg	52.7	19.7	1	12/07/22 08:30	12/07/22 15:43	79-01-6	
Trichlorofluoromethane	<15.3	ug/kg	52.7	15.3	1	12/07/22 08:30	12/07/22 15:43	75-69-4	
1,2,3-Trichloropropane	<25.6	ug/kg	52.7	25.6	1	12/07/22 08:30	12/07/22 15:43	96-18-4	
1,2,4-Trimethylbenzene	<15.7	ug/kg	52.7	15.7	1	12/07/22 08:30	12/07/22 15:43	95-63-6	
1,3,5-Trimethylbenzene	<17.0	ug/kg	52.7	17.0	1	12/07/22 08:30	12/07/22 15:43	108-67-8	
Vinyl chloride	<10.7	ug/kg	52.7	10.7	1	12/07/22 08:30	12/07/22 15:43	75-01-4	
m&p-Xylene	<22.3	ug/kg	105	22.3	1	12/07/22 08:30	12/07/22 15:43	179601-23-1	
o-Xylene	<15.8	ug/kg	52.7	15.8	1	12/07/22 08:30	12/07/22 15:43	95-47-6	
Surrogates									
Toluene-d8 (S)	122	%	69-153		1	12/07/22 08:30	12/07/22 15:43	2037-26-5	
4-Bromofluorobenzene (S)	119	%	68-156		1	12/07/22 08:30	12/07/22 15:43	460-00-4	
1,2-Dichlorobenzene-d4 (S)	122	%	71-161		1	12/07/22 08:30	12/07/22 15:43	2199-69-1	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	2.7	%	0.10	0.10	1		12/01/22 15:12		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: DUPLICATE NO. 2 **Lab ID: 40255397006** Collected: 11/28/22 00:00 Received: 12/01/22 09:20 Matrix: Solid
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	<1.6	mg/kg	2.7	1.6	1	12/02/22 06:42	12/02/22 22:25	7440-38-2	
Barium	27.0	mg/kg	0.53	0.16	1	12/02/22 06:42	12/02/22 22:25	7440-39-3	
Cadmium	<0.14	mg/kg	0.53	0.14	1	12/02/22 06:42	12/02/22 22:25	7440-43-9	
Chromium	11.7	mg/kg	1.1	0.30	1	12/02/22 06:42	12/02/22 22:25	7440-47-3	
Lead	2.3	mg/kg	2.1	0.64	1	12/02/22 06:42	12/02/22 22:25	7439-92-1	
Selenium	<1.4	mg/kg	4.3	1.4	1	12/02/22 06:42	12/02/22 22:25	7782-49-2	
Silver	<0.33	mg/kg	1.1	0.33	1	12/02/22 06:42	12/02/22 22:25	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.010	mg/kg	0.036	0.010	1	12/05/22 09:55	12/06/22 09:12	7439-97-6	
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<2.3	ug/kg	18.1	2.3	1	12/02/22 07:57	12/02/22 16:11	83-32-9	
Acenaphthylene	<2.3	ug/kg	18.1	2.3	1	12/02/22 07:57	12/02/22 16:11	208-96-8	
Anthracene	<2.2	ug/kg	18.1	2.2	1	12/02/22 07:57	12/02/22 16:11	120-12-7	
Benzo(a)anthracene	<2.3	ug/kg	18.1	2.3	1	12/02/22 07:57	12/02/22 16:11	56-55-3	
Benzo(a)pyrene	<2.1	ug/kg	18.1	2.1	1	12/02/22 07:57	12/02/22 16:11	50-32-8	
Benzo(b)fluoranthene	<2.5	ug/kg	18.1	2.5	1	12/02/22 07:57	12/02/22 16:11	205-99-2	
Benzo(g,h,i)perylene	<3.2	ug/kg	18.1	3.2	1	12/02/22 07:57	12/02/22 16:11	191-24-2	
Benzo(k)fluoranthene	<2.3	ug/kg	18.1	2.3	1	12/02/22 07:57	12/02/22 16:11	207-08-9	
Chrysene	<3.4	ug/kg	18.1	3.4	1	12/02/22 07:57	12/02/22 16:11	218-01-9	
Dibenz(a,h)anthracene	<2.5	ug/kg	18.1	2.5	1	12/02/22 07:57	12/02/22 16:11	53-70-3	
Fluoranthene	<2.1	ug/kg	18.1	2.1	1	12/02/22 07:57	12/02/22 16:11	206-44-0	
Fluorene	<2.2	ug/kg	18.1	2.2	1	12/02/22 07:57	12/02/22 16:11	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.8	ug/kg	18.1	3.8	1	12/02/22 07:57	12/02/22 16:11	193-39-5	
1-Methylnaphthalene	<2.6	ug/kg	18.1	2.6	1	12/02/22 07:57	12/02/22 16:11	90-12-0	
2-Methylnaphthalene	<2.6	ug/kg	18.1	2.6	1	12/02/22 07:57	12/02/22 16:11	91-57-6	
Naphthalene	<1.8	ug/kg	18.1	1.8	1	12/02/22 07:57	12/02/22 16:11	91-20-3	
Phenanthrene	<2.1	ug/kg	18.1	2.1	1	12/02/22 07:57	12/02/22 16:11	85-01-8	
Pyrene	<2.7	ug/kg	18.1	2.7	1	12/02/22 07:57	12/02/22 16:11	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	74	%	41-98		1	12/02/22 07:57	12/02/22 16:11	321-60-8	
Terphenyl-d14 (S)	76	%	37-106		1	12/02/22 07:57	12/02/22 16:11	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<13.9	ug/kg	23.3	13.9	1	12/07/22 08:30	12/07/22 16:03	71-43-2	
Bromobenzene	<22.7	ug/kg	58.3	22.7	1	12/07/22 08:30	12/07/22 16:03	108-86-1	
Bromochloromethane	<16.0	ug/kg	58.3	16.0	1	12/07/22 08:30	12/07/22 16:03	74-97-5	
Bromodichloromethane	<13.9	ug/kg	58.3	13.9	1	12/07/22 08:30	12/07/22 16:03	75-27-4	
Bromoform	<257	ug/kg	292	257	1	12/07/22 08:30	12/07/22 16:03	75-25-2	
Bromomethane	<81.8	ug/kg	292	81.8	1	12/07/22 08:30	12/07/22 16:03	74-83-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

Sample: **DUPLICATE NO. 2** Lab ID: **40255397006** Collected: 11/28/22 00:00 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
n-Butylbenzene	<26.7	ug/kg	58.3	26.7	1	12/07/22 08:30	12/07/22 16:03	104-51-8	
sec-Butylbenzene	<14.2	ug/kg	58.3	14.2	1	12/07/22 08:30	12/07/22 16:03	135-98-8	
tert-Butylbenzene	<18.3	ug/kg	58.3	18.3	1	12/07/22 08:30	12/07/22 16:03	98-06-6	
Carbon tetrachloride	<12.8	ug/kg	58.3	12.8	1	12/07/22 08:30	12/07/22 16:03	56-23-5	
Chlorobenzene	<7.0	ug/kg	58.3	7.0	1	12/07/22 08:30	12/07/22 16:03	108-90-7	
Chloroethane	<24.6	ug/kg	292	24.6	1	12/07/22 08:30	12/07/22 16:03	75-00-3	
Chloroform	<41.8	ug/kg	292	41.8	1	12/07/22 08:30	12/07/22 16:03	67-66-3	
Chloromethane	<22.2	ug/kg	58.3	22.2	1	12/07/22 08:30	12/07/22 16:03	74-87-3	
2-Chlorotoluene	<18.9	ug/kg	58.3	18.9	1	12/07/22 08:30	12/07/22 16:03	95-49-8	
4-Chlorotoluene	<22.2	ug/kg	58.3	22.2	1	12/07/22 08:30	12/07/22 16:03	106-43-4	
1,2-Dibromo-3-chloropropane	<45.3	ug/kg	292	45.3	1	12/07/22 08:30	12/07/22 16:03	96-12-8	
Dibromochloromethane	<199	ug/kg	292	199	1	12/07/22 08:30	12/07/22 16:03	124-48-1	
1,2-Dibromoethane (EDB)	<16.0	ug/kg	58.3	16.0	1	12/07/22 08:30	12/07/22 16:03	106-93-4	
Dibromomethane	<17.3	ug/kg	58.3	17.3	1	12/07/22 08:30	12/07/22 16:03	74-95-3	
1,2-Dichlorobenzene	<18.1	ug/kg	58.3	18.1	1	12/07/22 08:30	12/07/22 16:03	95-50-1	
1,3-Dichlorobenzene	<16.0	ug/kg	58.3	16.0	1	12/07/22 08:30	12/07/22 16:03	541-73-1	
1,4-Dichlorobenzene	<16.0	ug/kg	58.3	16.0	1	12/07/22 08:30	12/07/22 16:03	106-46-7	
Dichlorodifluoromethane	<25.1	ug/kg	58.3	25.1	1	12/07/22 08:30	12/07/22 16:03	75-71-8	L1
1,1-Dichloroethane	<14.9	ug/kg	58.3	14.9	1	12/07/22 08:30	12/07/22 16:03	75-34-3	
1,2-Dichloroethane	<13.4	ug/kg	58.3	13.4	1	12/07/22 08:30	12/07/22 16:03	107-06-2	
1,1-Dichloroethene	<19.4	ug/kg	58.3	19.4	1	12/07/22 08:30	12/07/22 16:03	75-35-4	
cis-1,2-Dichloroethene	<12.5	ug/kg	58.3	12.5	1	12/07/22 08:30	12/07/22 16:03	156-59-2	
trans-1,2-Dichloroethene	<12.6	ug/kg	58.3	12.6	1	12/07/22 08:30	12/07/22 16:03	156-60-5	
1,2-Dichloropropane	<13.9	ug/kg	58.3	13.9	1	12/07/22 08:30	12/07/22 16:03	78-87-5	
1,3-Dichloropropane	<12.7	ug/kg	58.3	12.7	1	12/07/22 08:30	12/07/22 16:03	142-28-9	
2,2-Dichloropropane	<15.7	ug/kg	58.3	15.7	1	12/07/22 08:30	12/07/22 16:03	594-20-7	
1,1-Dichloropropene	<18.9	ug/kg	58.3	18.9	1	12/07/22 08:30	12/07/22 16:03	563-58-6	
cis-1,3-Dichloropropene	<38.5	ug/kg	292	38.5	1	12/07/22 08:30	12/07/22 16:03	10061-01-5	
trans-1,3-Dichloropropene	<167	ug/kg	292	167	1	12/07/22 08:30	12/07/22 16:03	10061-02-6	
Diisopropyl ether	<14.5	ug/kg	58.3	14.5	1	12/07/22 08:30	12/07/22 16:03	108-20-3	
Ethylbenzene	<13.9	ug/kg	58.3	13.9	1	12/07/22 08:30	12/07/22 16:03	100-41-4	
Hexachloro-1,3-butadiene	<116	ug/kg	292	116	1	12/07/22 08:30	12/07/22 16:03	87-68-3	
Isopropylbenzene (Cumene)	<15.7	ug/kg	58.3	15.7	1	12/07/22 08:30	12/07/22 16:03	98-82-8	
p-Isopropyltoluene	<17.7	ug/kg	58.3	17.7	1	12/07/22 08:30	12/07/22 16:03	99-87-6	
Methylene Chloride	<16.2	ug/kg	58.3	16.2	1	12/07/22 08:30	12/07/22 16:03	75-09-2	
Methyl-tert-butyl ether	<17.1	ug/kg	58.3	17.1	1	12/07/22 08:30	12/07/22 16:03	1634-04-4	
Naphthalene	<18.2	ug/kg	292	18.2	1	12/07/22 08:30	12/07/22 16:03	91-20-3	
n-Propylbenzene	<14.0	ug/kg	58.3	14.0	1	12/07/22 08:30	12/07/22 16:03	103-65-1	
Styrene	<14.9	ug/kg	58.3	14.9	1	12/07/22 08:30	12/07/22 16:03	100-42-5	
1,1,1,2-Tetrachloroethane	<14.0	ug/kg	58.3	14.0	1	12/07/22 08:30	12/07/22 16:03	630-20-6	
1,1,1,2,2-Tetrachloroethane	<21.1	ug/kg	58.3	21.1	1	12/07/22 08:30	12/07/22 16:03	79-34-5	
Tetrachloroethene	<22.6	ug/kg	58.3	22.6	1	12/07/22 08:30	12/07/22 16:03	127-18-4	
Toluene	<14.7	ug/kg	58.3	14.7	1	12/07/22 08:30	12/07/22 16:03	108-88-3	
1,2,3-Trichlorobenzene	<65.0	ug/kg	292	65.0	1	12/07/22 08:30	12/07/22 16:03	87-61-6	

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

Sample: DUPLICATE NO. 2 **Lab ID: 40255397006** Collected: 11/28/22 00:00 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<48.1	ug/kg	292	48.1	1	12/07/22 08:30	12/07/22 16:03	120-82-1	
1,1,1-Trichloroethane	<14.9	ug/kg	58.3	14.9	1	12/07/22 08:30	12/07/22 16:03	71-55-6	
1,1,2-Trichloroethane	<21.2	ug/kg	58.3	21.2	1	12/07/22 08:30	12/07/22 16:03	79-00-5	
Trichloroethene	<21.8	ug/kg	58.3	21.8	1	12/07/22 08:30	12/07/22 16:03	79-01-6	
Trichlorofluoromethane	<16.9	ug/kg	58.3	16.9	1	12/07/22 08:30	12/07/22 16:03	75-69-4	
1,2,3-Trichloropropane	<28.3	ug/kg	58.3	28.3	1	12/07/22 08:30	12/07/22 16:03	96-18-4	
1,2,4-Trimethylbenzene	<17.4	ug/kg	58.3	17.4	1	12/07/22 08:30	12/07/22 16:03	95-63-6	
1,3,5-Trimethylbenzene	<18.8	ug/kg	58.3	18.8	1	12/07/22 08:30	12/07/22 16:03	108-67-8	
Vinyl chloride	<11.8	ug/kg	58.3	11.8	1	12/07/22 08:30	12/07/22 16:03	75-01-4	
m&p-Xylene	<24.6	ug/kg	117	24.6	1	12/07/22 08:30	12/07/22 16:03	179601-23-1	
o-Xylene	<17.5	ug/kg	58.3	17.5	1	12/07/22 08:30	12/07/22 16:03	95-47-6	
Surrogates									
Toluene-d8 (S)	116	%	69-153		1	12/07/22 08:30	12/07/22 16:03	2037-26-5	
4-Bromofluorobenzene (S)	111	%	68-156		1	12/07/22 08:30	12/07/22 16:03	460-00-4	
1,2-Dichlorobenzene-d4 (S)	119	%	71-161		1	12/07/22 08:30	12/07/22 16:03	2199-69-1	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	7.7	%	0.10	0.10	1		12/01/22 15:13		

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

Sample: DUPLICATE NO. 3 **Lab ID: 40255397007** Collected: 11/28/22 00:00 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	<1.5	mg/kg	2.5	1.5	1	12/02/22 06:42	12/02/22 22:28	7440-38-2	
Barium	30.4	mg/kg	0.50	0.15	1	12/02/22 06:42	12/02/22 22:28	7440-39-3	
Cadmium	<0.13	mg/kg	0.50	0.13	1	12/02/22 06:42	12/02/22 22:28	7440-43-9	
Chromium	10.7	mg/kg	1.0	0.28	1	12/02/22 06:42	12/02/22 22:28	7440-47-3	
Lead	2.6	mg/kg	2.0	0.60	1	12/02/22 06:42	12/02/22 22:28	7439-92-1	
Selenium	<1.3	mg/kg	4.0	1.3	1	12/02/22 06:42	12/02/22 22:28	7782-49-2	
Silver	<0.31	mg/kg	1.0	0.31	1	12/02/22 06:42	12/02/22 22:28	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.0096	mg/kg	0.034	0.0096	1	12/05/22 09:55	12/06/22 09:14	7439-97-6	
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<2.3	ug/kg	17.7	2.3	1	12/02/22 07:57	12/02/22 14:10	83-32-9	
Acenaphthylene	<2.2	ug/kg	17.7	2.2	1	12/02/22 07:57	12/02/22 14:10	208-96-8	
Anthracene	<2.2	ug/kg	17.7	2.2	1	12/02/22 07:57	12/02/22 14:10	120-12-7	
Benzo(a)anthracene	<2.3	ug/kg	17.7	2.3	1	12/02/22 07:57	12/02/22 14:10	56-55-3	
Benzo(a)pyrene	<2.0	ug/kg	17.7	2.0	1	12/02/22 07:57	12/02/22 14:10	50-32-8	
Benzo(b)fluoranthene	<2.5	ug/kg	17.7	2.5	1	12/02/22 07:57	12/02/22 14:10	205-99-2	
Benzo(g,h,i)perylene	<3.1	ug/kg	17.7	3.1	1	12/02/22 07:57	12/02/22 14:10	191-24-2	
Benzo(k)fluoranthene	<2.3	ug/kg	17.7	2.3	1	12/02/22 07:57	12/02/22 14:10	207-08-9	
Chrysene	<3.3	ug/kg	17.7	3.3	1	12/02/22 07:57	12/02/22 14:10	218-01-9	
Dibenz(a,h)anthracene	<2.4	ug/kg	17.7	2.4	1	12/02/22 07:57	12/02/22 14:10	53-70-3	
Fluoranthene	<2.1	ug/kg	17.7	2.1	1	12/02/22 07:57	12/02/22 14:10	206-44-0	
Fluorene	<2.1	ug/kg	17.7	2.1	1	12/02/22 07:57	12/02/22 14:10	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.7	ug/kg	17.7	3.7	1	12/02/22 07:57	12/02/22 14:10	193-39-5	
1-Methylnaphthalene	<2.6	ug/kg	17.7	2.6	1	12/02/22 07:57	12/02/22 14:10	90-12-0	
2-Methylnaphthalene	<2.6	ug/kg	17.7	2.6	1	12/02/22 07:57	12/02/22 14:10	91-57-6	
Naphthalene	<1.7	ug/kg	17.7	1.7	1	12/02/22 07:57	12/02/22 14:10	91-20-3	
Phenanthrene	<2.0	ug/kg	17.7	2.0	1	12/02/22 07:57	12/02/22 14:10	85-01-8	
Pyrene	<2.6	ug/kg	17.7	2.6	1	12/02/22 07:57	12/02/22 14:10	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	84	%	41-98		1	12/02/22 07:57	12/02/22 14:10	321-60-8	
Terphenyl-d14 (S)	80	%	37-106		1	12/02/22 07:57	12/02/22 14:10	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<13.3	ug/kg	22.3	13.3	1	12/07/22 08:30	12/07/22 16:23	71-43-2	
Bromobenzene	<21.8	ug/kg	55.8	21.8	1	12/07/22 08:30	12/07/22 16:23	108-86-1	
Bromochloromethane	<15.3	ug/kg	55.8	15.3	1	12/07/22 08:30	12/07/22 16:23	74-97-5	
Bromodichloromethane	<13.3	ug/kg	55.8	13.3	1	12/07/22 08:30	12/07/22 16:23	75-27-4	
Bromoform	<246	ug/kg	279	246	1	12/07/22 08:30	12/07/22 16:23	75-25-2	
Bromomethane	<78.3	ug/kg	279	78.3	1	12/07/22 08:30	12/07/22 16:23	74-83-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: **DUPLICATE NO. 3** Lab ID: **40255397007** Collected: 11/28/22 00:00 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
n-Butylbenzene	<25.6	ug/kg	55.8	25.6	1	12/07/22 08:30	12/07/22 16:23	104-51-8	
sec-Butylbenzene	<13.6	ug/kg	55.8	13.6	1	12/07/22 08:30	12/07/22 16:23	135-98-8	
tert-Butylbenzene	<17.5	ug/kg	55.8	17.5	1	12/07/22 08:30	12/07/22 16:23	98-06-6	
Carbon tetrachloride	<12.3	ug/kg	55.8	12.3	1	12/07/22 08:30	12/07/22 16:23	56-23-5	
Chlorobenzene	<6.7	ug/kg	55.8	6.7	1	12/07/22 08:30	12/07/22 16:23	108-90-7	
Chloroethane	<23.6	ug/kg	279	23.6	1	12/07/22 08:30	12/07/22 16:23	75-00-3	
Chloroform	<40.0	ug/kg	279	40.0	1	12/07/22 08:30	12/07/22 16:23	67-66-3	
Chloromethane	<21.2	ug/kg	55.8	21.2	1	12/07/22 08:30	12/07/22 16:23	74-87-3	
2-Chlorotoluene	<18.1	ug/kg	55.8	18.1	1	12/07/22 08:30	12/07/22 16:23	95-49-8	
4-Chlorotoluene	<21.2	ug/kg	55.8	21.2	1	12/07/22 08:30	12/07/22 16:23	106-43-4	
1,2-Dibromo-3-chloropropane	<43.3	ug/kg	279	43.3	1	12/07/22 08:30	12/07/22 16:23	96-12-8	
Dibromochloromethane	<191	ug/kg	279	191	1	12/07/22 08:30	12/07/22 16:23	124-48-1	
1,2-Dibromoethane (EDB)	<15.3	ug/kg	55.8	15.3	1	12/07/22 08:30	12/07/22 16:23	106-93-4	
Dibromomethane	<16.5	ug/kg	55.8	16.5	1	12/07/22 08:30	12/07/22 16:23	74-95-3	
1,2-Dichlorobenzene	<17.3	ug/kg	55.8	17.3	1	12/07/22 08:30	12/07/22 16:23	95-50-1	
1,3-Dichlorobenzene	<15.3	ug/kg	55.8	15.3	1	12/07/22 08:30	12/07/22 16:23	541-73-1	
1,4-Dichlorobenzene	<15.3	ug/kg	55.8	15.3	1	12/07/22 08:30	12/07/22 16:23	106-46-7	
Dichlorodifluoromethane	<24.0	ug/kg	55.8	24.0	1	12/07/22 08:30	12/07/22 16:23	75-71-8	L1
1,1-Dichloroethane	<14.3	ug/kg	55.8	14.3	1	12/07/22 08:30	12/07/22 16:23	75-34-3	
1,2-Dichloroethane	<12.8	ug/kg	55.8	12.8	1	12/07/22 08:30	12/07/22 16:23	107-06-2	
1,1-Dichloroethene	<18.5	ug/kg	55.8	18.5	1	12/07/22 08:30	12/07/22 16:23	75-35-4	
cis-1,2-Dichloroethene	<11.9	ug/kg	55.8	11.9	1	12/07/22 08:30	12/07/22 16:23	156-59-2	
trans-1,2-Dichloroethene	<12.1	ug/kg	55.8	12.1	1	12/07/22 08:30	12/07/22 16:23	156-60-5	
1,2-Dichloropropane	<13.3	ug/kg	55.8	13.3	1	12/07/22 08:30	12/07/22 16:23	78-87-5	
1,3-Dichloropropane	<12.2	ug/kg	55.8	12.2	1	12/07/22 08:30	12/07/22 16:23	142-28-9	
2,2-Dichloropropane	<15.1	ug/kg	55.8	15.1	1	12/07/22 08:30	12/07/22 16:23	594-20-7	
1,1-Dichloropropene	<18.1	ug/kg	55.8	18.1	1	12/07/22 08:30	12/07/22 16:23	563-58-6	
cis-1,3-Dichloropropene	<36.8	ug/kg	279	36.8	1	12/07/22 08:30	12/07/22 16:23	10061-01-5	
trans-1,3-Dichloropropene	<160	ug/kg	279	160	1	12/07/22 08:30	12/07/22 16:23	10061-02-6	
Diisopropyl ether	<13.8	ug/kg	55.8	13.8	1	12/07/22 08:30	12/07/22 16:23	108-20-3	
Ethylbenzene	<13.3	ug/kg	55.8	13.3	1	12/07/22 08:30	12/07/22 16:23	100-41-4	
Hexachloro-1,3-butadiene	<111	ug/kg	279	111	1	12/07/22 08:30	12/07/22 16:23	87-68-3	
Isopropylbenzene (Cumene)	<15.1	ug/kg	55.8	15.1	1	12/07/22 08:30	12/07/22 16:23	98-82-8	
p-Isopropyltoluene	<17.0	ug/kg	55.8	17.0	1	12/07/22 08:30	12/07/22 16:23	99-87-6	
Methylene Chloride	<15.5	ug/kg	55.8	15.5	1	12/07/22 08:30	12/07/22 16:23	75-09-2	
Methyl-tert-butyl ether	<16.4	ug/kg	55.8	16.4	1	12/07/22 08:30	12/07/22 16:23	1634-04-4	
Naphthalene	<17.4	ug/kg	279	17.4	1	12/07/22 08:30	12/07/22 16:23	91-20-3	
n-Propylbenzene	<13.4	ug/kg	55.8	13.4	1	12/07/22 08:30	12/07/22 16:23	103-65-1	
Styrene	<14.3	ug/kg	55.8	14.3	1	12/07/22 08:30	12/07/22 16:23	100-42-5	
1,1,1,2-Tetrachloroethane	<13.4	ug/kg	55.8	13.4	1	12/07/22 08:30	12/07/22 16:23	630-20-6	
1,1,1,2,2-Tetrachloroethane	<20.2	ug/kg	55.8	20.2	1	12/07/22 08:30	12/07/22 16:23	79-34-5	
Tetrachloroethene	<21.7	ug/kg	55.8	21.7	1	12/07/22 08:30	12/07/22 16:23	127-18-4	
Toluene	<14.1	ug/kg	55.8	14.1	1	12/07/22 08:30	12/07/22 16:23	108-88-3	
1,2,3-Trichlorobenzene	<62.2	ug/kg	279	62.2	1	12/07/22 08:30	12/07/22 16:23	87-61-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: DUPLICATE NO. 3 **Lab ID: 40255397007** Collected: 11/28/22 00:00 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<46.0	ug/kg	279	46.0	1	12/07/22 08:30	12/07/22 16:23	120-82-1	
1,1,1-Trichloroethane	<14.3	ug/kg	55.8	14.3	1	12/07/22 08:30	12/07/22 16:23	71-55-6	
1,1,2-Trichloroethane	<20.3	ug/kg	55.8	20.3	1	12/07/22 08:30	12/07/22 16:23	79-00-5	
Trichloroethene	<20.9	ug/kg	55.8	20.9	1	12/07/22 08:30	12/07/22 16:23	79-01-6	
Trichlorofluoromethane	<16.2	ug/kg	55.8	16.2	1	12/07/22 08:30	12/07/22 16:23	75-69-4	
1,2,3-Trichloropropane	<27.1	ug/kg	55.8	27.1	1	12/07/22 08:30	12/07/22 16:23	96-18-4	
1,2,4-Trimethylbenzene	<16.6	ug/kg	55.8	16.6	1	12/07/22 08:30	12/07/22 16:23	95-63-6	
1,3,5-Trimethylbenzene	<18.0	ug/kg	55.8	18.0	1	12/07/22 08:30	12/07/22 16:23	108-67-8	
Vinyl chloride	<11.3	ug/kg	55.8	11.3	1	12/07/22 08:30	12/07/22 16:23	75-01-4	
m&p-Xylene	<23.6	ug/kg	112	23.6	1	12/07/22 08:30	12/07/22 16:23	179601-23-1	
o-Xylene	<16.7	ug/kg	55.8	16.7	1	12/07/22 08:30	12/07/22 16:23	95-47-6	
Surrogates									
Toluene-d8 (S)	114	%	69-153		1	12/07/22 08:30	12/07/22 16:23	2037-26-5	
4-Bromofluorobenzene (S)	112	%	68-156		1	12/07/22 08:30	12/07/22 16:23	460-00-4	
1,2-Dichlorobenzene-d4 (S)	114	%	71-161		1	12/07/22 08:30	12/07/22 16:23	2199-69-1	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	5.5	%	0.10	0.10	1		12/01/22 15:13		

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-8 **Lab ID: 40255397008** Collected: 11/28/22 16:45 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	1.8J	mg/kg	2.6	1.5	1	12/02/22 06:42	12/02/22 22:30	7440-38-2	
Barium	26.0	mg/kg	0.52	0.16	1	12/02/22 06:42	12/02/22 22:30	7440-39-3	
Cadmium	<0.14	mg/kg	0.52	0.14	1	12/02/22 06:42	12/02/22 22:30	7440-43-9	
Chromium	8.6	mg/kg	1.0	0.29	1	12/02/22 06:42	12/02/22 22:30	7440-47-3	
Lead	2.0J	mg/kg	2.1	0.62	1	12/02/22 06:42	12/02/22 22:30	7439-92-1	
Selenium	<1.4	mg/kg	4.2	1.4	1	12/02/22 06:42	12/02/22 22:30	7782-49-2	
Silver	<0.32	mg/kg	1.0	0.32	1	12/02/22 06:42	12/02/22 22:30	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.010	mg/kg	0.036	0.010	1	12/05/22 09:55	12/06/22 09:17	7439-97-6	
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<2.3	ug/kg	18.0	2.3	1	12/02/22 07:57	12/02/22 16:28	83-32-9	
Acenaphthylene	<2.3	ug/kg	18.0	2.3	1	12/02/22 07:57	12/02/22 16:28	208-96-8	
Anthracene	<2.2	ug/kg	18.0	2.2	1	12/02/22 07:57	12/02/22 16:28	120-12-7	
Benzo(a)anthracene	<2.3	ug/kg	18.0	2.3	1	12/02/22 07:57	12/02/22 16:28	56-55-3	
Benzo(a)pyrene	<2.0	ug/kg	18.0	2.0	1	12/02/22 07:57	12/02/22 16:28	50-32-8	
Benzo(b)fluoranthene	<2.5	ug/kg	18.0	2.5	1	12/02/22 07:57	12/02/22 16:28	205-99-2	
Benzo(g,h,i)perylene	<3.2	ug/kg	18.0	3.2	1	12/02/22 07:57	12/02/22 16:28	191-24-2	
Benzo(k)fluoranthene	<2.3	ug/kg	18.0	2.3	1	12/02/22 07:57	12/02/22 16:28	207-08-9	
Chrysene	<3.4	ug/kg	18.0	3.4	1	12/02/22 07:57	12/02/22 16:28	218-01-9	
Dibenz(a,h)anthracene	<2.5	ug/kg	18.0	2.5	1	12/02/22 07:57	12/02/22 16:28	53-70-3	
Fluoranthene	<2.1	ug/kg	18.0	2.1	1	12/02/22 07:57	12/02/22 16:28	206-44-0	
Fluorene	<2.2	ug/kg	18.0	2.2	1	12/02/22 07:57	12/02/22 16:28	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.7	ug/kg	18.0	3.7	1	12/02/22 07:57	12/02/22 16:28	193-39-5	
1-Methylnaphthalene	<2.6	ug/kg	18.0	2.6	1	12/02/22 07:57	12/02/22 16:28	90-12-0	
2-Methylnaphthalene	<2.6	ug/kg	18.0	2.6	1	12/02/22 07:57	12/02/22 16:28	91-57-6	
Naphthalene	<1.8	ug/kg	18.0	1.8	1	12/02/22 07:57	12/02/22 16:28	91-20-3	
Phenanthrene	<2.1	ug/kg	18.0	2.1	1	12/02/22 07:57	12/02/22 16:28	85-01-8	
Pyrene	<2.6	ug/kg	18.0	2.6	1	12/02/22 07:57	12/02/22 16:28	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	79	%	41-98		1	12/02/22 07:57	12/02/22 16:28	321-60-8	
Terphenyl-d14 (S)	76	%	37-106		1	12/02/22 07:57	12/02/22 16:28	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<13.7	ug/kg	23.0	13.7	1	12/07/22 08:30	12/07/22 16:45	71-43-2	
Bromobenzene	<22.4	ug/kg	57.4	22.4	1	12/07/22 08:30	12/07/22 16:45	108-86-1	
Bromochloromethane	<15.7	ug/kg	57.4	15.7	1	12/07/22 08:30	12/07/22 16:45	74-97-5	
Bromodichloromethane	<13.7	ug/kg	57.4	13.7	1	12/07/22 08:30	12/07/22 16:45	75-27-4	
Bromoform	<253	ug/kg	287	253	1	12/07/22 08:30	12/07/22 16:45	75-25-2	
Bromomethane	<80.5	ug/kg	287	80.5	1	12/07/22 08:30	12/07/22 16:45	74-83-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-8 **Lab ID: 40255397008** Collected: 11/28/22 16:45 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
n-Butylbenzene	<26.3	ug/kg	57.4	26.3	1	12/07/22 08:30	12/07/22 16:45	104-51-8	
sec-Butylbenzene	<14.0	ug/kg	57.4	14.0	1	12/07/22 08:30	12/07/22 16:45	135-98-8	
tert-Butylbenzene	<18.0	ug/kg	57.4	18.0	1	12/07/22 08:30	12/07/22 16:45	98-06-6	
Carbon tetrachloride	<12.6	ug/kg	57.4	12.6	1	12/07/22 08:30	12/07/22 16:45	56-23-5	
Chlorobenzene	<6.9	ug/kg	57.4	6.9	1	12/07/22 08:30	12/07/22 16:45	108-90-7	
Chloroethane	<24.2	ug/kg	287	24.2	1	12/07/22 08:30	12/07/22 16:45	75-00-3	
Chloroform	<41.1	ug/kg	287	41.1	1	12/07/22 08:30	12/07/22 16:45	67-66-3	
Chloromethane	<21.8	ug/kg	57.4	21.8	1	12/07/22 08:30	12/07/22 16:45	74-87-3	
2-Chlorotoluene	<18.6	ug/kg	57.4	18.6	1	12/07/22 08:30	12/07/22 16:45	95-49-8	
4-Chlorotoluene	<21.8	ug/kg	57.4	21.8	1	12/07/22 08:30	12/07/22 16:45	106-43-4	
1,2-Dibromo-3-chloropropane	<44.6	ug/kg	287	44.6	1	12/07/22 08:30	12/07/22 16:45	96-12-8	
Dibromochloromethane	<196	ug/kg	287	196	1	12/07/22 08:30	12/07/22 16:45	124-48-1	
1,2-Dibromoethane (EDB)	<15.7	ug/kg	57.4	15.7	1	12/07/22 08:30	12/07/22 16:45	106-93-4	
Dibromomethane	<17.0	ug/kg	57.4	17.0	1	12/07/22 08:30	12/07/22 16:45	74-95-3	
1,2-Dichlorobenzene	<17.8	ug/kg	57.4	17.8	1	12/07/22 08:30	12/07/22 16:45	95-50-1	
1,3-Dichlorobenzene	<15.7	ug/kg	57.4	15.7	1	12/07/22 08:30	12/07/22 16:45	541-73-1	
1,4-Dichlorobenzene	<15.7	ug/kg	57.4	15.7	1	12/07/22 08:30	12/07/22 16:45	106-46-7	
Dichlorodifluoromethane	<24.7	ug/kg	57.4	24.7	1	12/07/22 08:30	12/07/22 16:45	75-71-8	L1
1,1-Dichloroethane	<14.7	ug/kg	57.4	14.7	1	12/07/22 08:30	12/07/22 16:45	75-34-3	
1,2-Dichloroethane	<13.2	ug/kg	57.4	13.2	1	12/07/22 08:30	12/07/22 16:45	107-06-2	
1,1-Dichloroethene	<19.1	ug/kg	57.4	19.1	1	12/07/22 08:30	12/07/22 16:45	75-35-4	
cis-1,2-Dichloroethene	<12.3	ug/kg	57.4	12.3	1	12/07/22 08:30	12/07/22 16:45	156-59-2	
trans-1,2-Dichloroethene	<12.4	ug/kg	57.4	12.4	1	12/07/22 08:30	12/07/22 16:45	156-60-5	
1,2-Dichloropropane	<13.7	ug/kg	57.4	13.7	1	12/07/22 08:30	12/07/22 16:45	78-87-5	
1,3-Dichloropropane	<12.5	ug/kg	57.4	12.5	1	12/07/22 08:30	12/07/22 16:45	142-28-9	
2,2-Dichloropropane	<15.5	ug/kg	57.4	15.5	1	12/07/22 08:30	12/07/22 16:45	594-20-7	
1,1-Dichloropropene	<18.6	ug/kg	57.4	18.6	1	12/07/22 08:30	12/07/22 16:45	563-58-6	
cis-1,3-Dichloropropene	<37.9	ug/kg	287	37.9	1	12/07/22 08:30	12/07/22 16:45	10061-01-5	
trans-1,3-Dichloropropene	<164	ug/kg	287	164	1	12/07/22 08:30	12/07/22 16:45	10061-02-6	
Diisopropyl ether	<14.2	ug/kg	57.4	14.2	1	12/07/22 08:30	12/07/22 16:45	108-20-3	
Ethylbenzene	<13.7	ug/kg	57.4	13.7	1	12/07/22 08:30	12/07/22 16:45	100-41-4	
Hexachloro-1,3-butadiene	<114	ug/kg	287	114	1	12/07/22 08:30	12/07/22 16:45	87-68-3	
Isopropylbenzene (Cumene)	<15.5	ug/kg	57.4	15.5	1	12/07/22 08:30	12/07/22 16:45	98-82-8	
p-Isopropyltoluene	<17.5	ug/kg	57.4	17.5	1	12/07/22 08:30	12/07/22 16:45	99-87-6	
Methylene Chloride	<16.0	ug/kg	57.4	16.0	1	12/07/22 08:30	12/07/22 16:45	75-09-2	
Methyl-tert-butyl ether	<16.9	ug/kg	57.4	16.9	1	12/07/22 08:30	12/07/22 16:45	1634-04-4	
Naphthalene	<17.9	ug/kg	287	17.9	1	12/07/22 08:30	12/07/22 16:45	91-20-3	
n-Propylbenzene	<13.8	ug/kg	57.4	13.8	1	12/07/22 08:30	12/07/22 16:45	103-65-1	
Styrene	<14.7	ug/kg	57.4	14.7	1	12/07/22 08:30	12/07/22 16:45	100-42-5	
1,1,1,2-Tetrachloroethane	<13.8	ug/kg	57.4	13.8	1	12/07/22 08:30	12/07/22 16:45	630-20-6	
1,1,1,2,2-Tetrachloroethane	<20.8	ug/kg	57.4	20.8	1	12/07/22 08:30	12/07/22 16:45	79-34-5	
Tetrachloroethene	<22.3	ug/kg	57.4	22.3	1	12/07/22 08:30	12/07/22 16:45	127-18-4	
Toluene	<14.5	ug/kg	57.4	14.5	1	12/07/22 08:30	12/07/22 16:45	108-88-3	
1,2,3-Trichlorobenzene	<64.0	ug/kg	287	64.0	1	12/07/22 08:30	12/07/22 16:45	87-61-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-8 **Lab ID: 40255397008** Collected: 11/28/22 16:45 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<47.3	ug/kg	287	47.3	1	12/07/22 08:30	12/07/22 16:45	120-82-1	
1,1,1-Trichloroethane	<14.7	ug/kg	57.4	14.7	1	12/07/22 08:30	12/07/22 16:45	71-55-6	
1,1,2-Trichloroethane	<20.9	ug/kg	57.4	20.9	1	12/07/22 08:30	12/07/22 16:45	79-00-5	
Trichloroethene	<21.5	ug/kg	57.4	21.5	1	12/07/22 08:30	12/07/22 16:45	79-01-6	
Trichlorofluoromethane	<16.7	ug/kg	57.4	16.7	1	12/07/22 08:30	12/07/22 16:45	75-69-4	
1,2,3-Trichloropropane	<27.9	ug/kg	57.4	27.9	1	12/07/22 08:30	12/07/22 16:45	96-18-4	
1,2,4-Trimethylbenzene	<17.1	ug/kg	57.4	17.1	1	12/07/22 08:30	12/07/22 16:45	95-63-6	
1,3,5-Trimethylbenzene	<18.5	ug/kg	57.4	18.5	1	12/07/22 08:30	12/07/22 16:45	108-67-8	
Vinyl chloride	<11.6	ug/kg	57.4	11.6	1	12/07/22 08:30	12/07/22 16:45	75-01-4	
m&p-Xylene	<24.2	ug/kg	115	24.2	1	12/07/22 08:30	12/07/22 16:45	179601-23-1	
o-Xylene	<17.2	ug/kg	57.4	17.2	1	12/07/22 08:30	12/07/22 16:45	95-47-6	
Surrogates									
Toluene-d8 (S)	117	%	69-153		1	12/07/22 08:30	12/07/22 16:45	2037-26-5	
4-Bromofluorobenzene (S)	114	%	68-156		1	12/07/22 08:30	12/07/22 16:45	460-00-4	
1,2-Dichlorobenzene-d4 (S)	120	%	71-161		1	12/07/22 08:30	12/07/22 16:45	2199-69-1	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	6.9	%	0.10	0.10	1		12/01/22 15:13		

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-9 **Lab ID: 40255397009** Collected: 11/28/22 17:00 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	<1.5	mg/kg	2.6	1.5	1	12/02/22 06:42	12/05/22 13:35	7440-38-2	
Barium	18.7	mg/kg	0.52	0.16	1	12/02/22 06:42	12/05/22 13:35	7440-39-3	
Cadmium	<0.14	mg/kg	0.52	0.14	1	12/02/22 06:42	12/05/22 13:35	7440-43-9	
Chromium	7.8	mg/kg	1.0	0.29	1	12/02/22 06:42	12/05/22 13:35	7440-47-3	
Lead	1.7J	mg/kg	2.1	0.62	1	12/02/22 06:42	12/05/22 13:35	7439-92-1	
Selenium	<1.4	mg/kg	4.1	1.4	1	12/02/22 06:42	12/05/22 13:35	7782-49-2	
Silver	<0.32	mg/kg	1.0	0.32	1	12/02/22 06:42	12/05/22 13:35	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.011	mg/kg	0.037	0.011	1	12/05/22 09:55	12/06/22 09:19	7439-97-6	
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<2.4	ug/kg	18.6	2.4	1	12/02/22 07:57	12/02/22 11:00	83-32-9	
Acenaphthylene	<2.3	ug/kg	18.6	2.3	1	12/02/22 07:57	12/02/22 11:00	208-96-8	
Anthracene	<2.3	ug/kg	18.6	2.3	1	12/02/22 07:57	12/02/22 11:00	120-12-7	
Benzo(a)anthracene	<2.4	ug/kg	18.6	2.4	1	12/02/22 07:57	12/02/22 11:00	56-55-3	
Benzo(a)pyrene	<2.1	ug/kg	18.6	2.1	1	12/02/22 07:57	12/02/22 11:00	50-32-8	
Benzo(b)fluoranthene	<2.6	ug/kg	18.6	2.6	1	12/02/22 07:57	12/02/22 11:00	205-99-2	
Benzo(g,h,i)perylene	<3.3	ug/kg	18.6	3.3	1	12/02/22 07:57	12/02/22 11:00	191-24-2	
Benzo(k)fluoranthene	<2.4	ug/kg	18.6	2.4	1	12/02/22 07:57	12/02/22 11:00	207-08-9	
Chrysene	<3.5	ug/kg	18.6	3.5	1	12/02/22 07:57	12/02/22 11:00	218-01-9	
Dibenz(a,h)anthracene	<2.6	ug/kg	18.6	2.6	1	12/02/22 07:57	12/02/22 11:00	53-70-3	
Fluoranthene	<2.2	ug/kg	18.6	2.2	1	12/02/22 07:57	12/02/22 11:00	206-44-0	
Fluorene	<2.2	ug/kg	18.6	2.2	1	12/02/22 07:57	12/02/22 11:00	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.9	ug/kg	18.6	3.9	1	12/02/22 07:57	12/02/22 11:00	193-39-5	
1-Methylnaphthalene	<2.7	ug/kg	18.6	2.7	1	12/02/22 07:57	12/02/22 11:00	90-12-0	
2-Methylnaphthalene	<2.7	ug/kg	18.6	2.7	1	12/02/22 07:57	12/02/22 11:00	91-57-6	
Naphthalene	<1.8	ug/kg	18.6	1.8	1	12/02/22 07:57	12/02/22 11:00	91-20-3	
Phenanthrene	<2.1	ug/kg	18.6	2.1	1	12/02/22 07:57	12/02/22 11:00	85-01-8	
Pyrene	<2.7	ug/kg	18.6	2.7	1	12/02/22 07:57	12/02/22 11:00	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	78	%	41-98		1	12/02/22 07:57	12/02/22 11:00	321-60-8	
Terphenyl-d14 (S)	76	%	37-106		1	12/02/22 07:57	12/02/22 11:00	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<14.6	ug/kg	24.6	14.6	1	12/07/22 08:30	12/07/22 17:05	71-43-2	
Bromobenzene	<24.0	ug/kg	61.4	24.0	1	12/07/22 08:30	12/07/22 17:05	108-86-1	
Bromochloromethane	<16.8	ug/kg	61.4	16.8	1	12/07/22 08:30	12/07/22 17:05	74-97-5	
Bromodichloromethane	<14.6	ug/kg	61.4	14.6	1	12/07/22 08:30	12/07/22 17:05	75-27-4	
Bromoform	<270	ug/kg	307	270	1	12/07/22 08:30	12/07/22 17:05	75-25-2	
Bromomethane	<86.1	ug/kg	307	86.1	1	12/07/22 08:30	12/07/22 17:05	74-83-9	

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-9 Lab ID: **40255397009** Collected: 11/28/22 17:00 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
n-Butylbenzene	<28.1	ug/kg	61.4	28.1	1	12/07/22 08:30	12/07/22 17:05	104-51-8	
sec-Butylbenzene	<15.0	ug/kg	61.4	15.0	1	12/07/22 08:30	12/07/22 17:05	135-98-8	
tert-Butylbenzene	<19.3	ug/kg	61.4	19.3	1	12/07/22 08:30	12/07/22 17:05	98-06-6	
Carbon tetrachloride	<13.5	ug/kg	61.4	13.5	1	12/07/22 08:30	12/07/22 17:05	56-23-5	
Chlorobenzene	<7.4	ug/kg	61.4	7.4	1	12/07/22 08:30	12/07/22 17:05	108-90-7	
Chloroethane	<25.9	ug/kg	307	25.9	1	12/07/22 08:30	12/07/22 17:05	75-00-3	
Chloroform	<44.0	ug/kg	307	44.0	1	12/07/22 08:30	12/07/22 17:05	67-66-3	
Chloromethane	<23.3	ug/kg	61.4	23.3	1	12/07/22 08:30	12/07/22 17:05	74-87-3	
2-Chlorotoluene	<19.9	ug/kg	61.4	19.9	1	12/07/22 08:30	12/07/22 17:05	95-49-8	
4-Chlorotoluene	<23.3	ug/kg	61.4	23.3	1	12/07/22 08:30	12/07/22 17:05	106-43-4	
1,2-Dibromo-3-chloropropane	<47.7	ug/kg	307	47.7	1	12/07/22 08:30	12/07/22 17:05	96-12-8	
Dibromochloromethane	<210	ug/kg	307	210	1	12/07/22 08:30	12/07/22 17:05	124-48-1	
1,2-Dibromoethane (EDB)	<16.8	ug/kg	61.4	16.8	1	12/07/22 08:30	12/07/22 17:05	106-93-4	
Dibromomethane	<18.2	ug/kg	61.4	18.2	1	12/07/22 08:30	12/07/22 17:05	74-95-3	
1,2-Dichlorobenzene	<19.0	ug/kg	61.4	19.0	1	12/07/22 08:30	12/07/22 17:05	95-50-1	
1,3-Dichlorobenzene	<16.8	ug/kg	61.4	16.8	1	12/07/22 08:30	12/07/22 17:05	541-73-1	
1,4-Dichlorobenzene	<16.8	ug/kg	61.4	16.8	1	12/07/22 08:30	12/07/22 17:05	106-46-7	
Dichlorodifluoromethane	<26.4	ug/kg	61.4	26.4	1	12/07/22 08:30	12/07/22 17:05	75-71-8	L1
1,1-Dichloroethane	<15.7	ug/kg	61.4	15.7	1	12/07/22 08:30	12/07/22 17:05	75-34-3	
1,2-Dichloroethane	<14.1	ug/kg	61.4	14.1	1	12/07/22 08:30	12/07/22 17:05	107-06-2	
1,1-Dichloroethene	<20.4	ug/kg	61.4	20.4	1	12/07/22 08:30	12/07/22 17:05	75-35-4	
cis-1,2-Dichloroethene	<13.1	ug/kg	61.4	13.1	1	12/07/22 08:30	12/07/22 17:05	156-59-2	
trans-1,2-Dichloroethene	<13.3	ug/kg	61.4	13.3	1	12/07/22 08:30	12/07/22 17:05	156-60-5	
1,2-Dichloropropane	<14.6	ug/kg	61.4	14.6	1	12/07/22 08:30	12/07/22 17:05	78-87-5	
1,3-Dichloropropane	<13.4	ug/kg	61.4	13.4	1	12/07/22 08:30	12/07/22 17:05	142-28-9	
2,2-Dichloropropane	<16.6	ug/kg	61.4	16.6	1	12/07/22 08:30	12/07/22 17:05	594-20-7	
1,1-Dichloropropene	<19.9	ug/kg	61.4	19.9	1	12/07/22 08:30	12/07/22 17:05	563-58-6	
cis-1,3-Dichloropropene	<40.5	ug/kg	307	40.5	1	12/07/22 08:30	12/07/22 17:05	10061-01-5	
trans-1,3-Dichloropropene	<176	ug/kg	307	176	1	12/07/22 08:30	12/07/22 17:05	10061-02-6	
Diisopropyl ether	<15.2	ug/kg	61.4	15.2	1	12/07/22 08:30	12/07/22 17:05	108-20-3	
Ethylbenzene	<14.6	ug/kg	61.4	14.6	1	12/07/22 08:30	12/07/22 17:05	100-41-4	
Hexachloro-1,3-butadiene	<122	ug/kg	307	122	1	12/07/22 08:30	12/07/22 17:05	87-68-3	
Isopropylbenzene (Cumene)	<16.6	ug/kg	61.4	16.6	1	12/07/22 08:30	12/07/22 17:05	98-82-8	
p-Isopropyltoluene	<18.7	ug/kg	61.4	18.7	1	12/07/22 08:30	12/07/22 17:05	99-87-6	
Methylene Chloride	<17.1	ug/kg	61.4	17.1	1	12/07/22 08:30	12/07/22 17:05	75-09-2	
Methyl-tert-butyl ether	<18.1	ug/kg	61.4	18.1	1	12/07/22 08:30	12/07/22 17:05	1634-04-4	
Naphthalene	<19.2	ug/kg	307	19.2	1	12/07/22 08:30	12/07/22 17:05	91-20-3	
n-Propylbenzene	<14.7	ug/kg	61.4	14.7	1	12/07/22 08:30	12/07/22 17:05	103-65-1	
Styrene	<15.7	ug/kg	61.4	15.7	1	12/07/22 08:30	12/07/22 17:05	100-42-5	
1,1,1,2-Tetrachloroethane	<14.7	ug/kg	61.4	14.7	1	12/07/22 08:30	12/07/22 17:05	630-20-6	
1,1,1,2,2-Tetrachloroethane	<22.2	ug/kg	61.4	22.2	1	12/07/22 08:30	12/07/22 17:05	79-34-5	
Tetrachloroethene	<23.8	ug/kg	61.4	23.8	1	12/07/22 08:30	12/07/22 17:05	127-18-4	
Toluene	<15.5	ug/kg	61.4	15.5	1	12/07/22 08:30	12/07/22 17:05	108-88-3	
1,2,3-Trichlorobenzene	<68.4	ug/kg	307	68.4	1	12/07/22 08:30	12/07/22 17:05	87-61-6	

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-9 **Lab ID: 40255397009** Collected: 11/28/22 17:00 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<50.6	ug/kg	307	50.6	1	12/07/22 08:30	12/07/22 17:05	120-82-1	
1,1,1-Trichloroethane	<15.7	ug/kg	61.4	15.7	1	12/07/22 08:30	12/07/22 17:05	71-55-6	
1,1,2-Trichloroethane	<22.4	ug/kg	61.4	22.4	1	12/07/22 08:30	12/07/22 17:05	79-00-5	
Trichloroethene	<23.0	ug/kg	61.4	23.0	1	12/07/22 08:30	12/07/22 17:05	79-01-6	
Trichlorofluoromethane	<17.8	ug/kg	61.4	17.8	1	12/07/22 08:30	12/07/22 17:05	75-69-4	
1,2,3-Trichloropropane	<29.8	ug/kg	61.4	29.8	1	12/07/22 08:30	12/07/22 17:05	96-18-4	
1,2,4-Trimethylbenzene	<18.3	ug/kg	61.4	18.3	1	12/07/22 08:30	12/07/22 17:05	95-63-6	
1,3,5-Trimethylbenzene	<19.8	ug/kg	61.4	19.8	1	12/07/22 08:30	12/07/22 17:05	108-67-8	
Vinyl chloride	<12.4	ug/kg	61.4	12.4	1	12/07/22 08:30	12/07/22 17:05	75-01-4	
m&p-Xylene	<25.9	ug/kg	123	25.9	1	12/07/22 08:30	12/07/22 17:05	179601-23-1	
o-Xylene	<18.4	ug/kg	61.4	18.4	1	12/07/22 08:30	12/07/22 17:05	95-47-6	
Surrogates									
Toluene-d8 (S)	112	%	69-153		1	12/07/22 08:30	12/07/22 17:05	2037-26-5	
4-Bromofluorobenzene (S)	106	%	68-156		1	12/07/22 08:30	12/07/22 17:05	460-00-4	
1,2-Dichlorobenzene-d4 (S)	111	%	71-161		1	12/07/22 08:30	12/07/22 17:05	2199-69-1	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	10.2	%	0.10	0.10	1		12/01/22 15:13		

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-10 **Lab ID: 40255397010** Collected: 11/28/22 17:20 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	1.6J	mg/kg	2.5	1.5	1	12/02/22 06:42	12/02/22 22:36	7440-38-2	
Barium	36.2	mg/kg	0.51	0.15	1	12/02/22 06:42	12/02/22 22:36	7440-39-3	
Cadmium	<0.13	mg/kg	0.51	0.13	1	12/02/22 06:42	12/02/22 22:36	7440-43-9	
Chromium	10.2	mg/kg	1.0	0.28	1	12/02/22 06:42	12/02/22 22:36	7440-47-3	
Lead	3.3	mg/kg	2.0	0.61	1	12/02/22 06:42	12/02/22 22:36	7439-92-1	
Selenium	<1.3	mg/kg	4.1	1.3	1	12/02/22 06:42	12/02/22 22:36	7782-49-2	
Silver	<0.31	mg/kg	1.0	0.31	1	12/02/22 06:42	12/02/22 22:36	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.0099	mg/kg	0.035	0.0099	1	12/05/22 09:55	12/06/22 09:21	7439-97-6	
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<2.3	ug/kg	17.9	2.3	1	12/02/22 07:57	12/02/22 14:28	83-32-9	
Acenaphthylene	<2.3	ug/kg	17.9	2.3	1	12/02/22 07:57	12/02/22 14:28	208-96-8	
Anthracene	<2.2	ug/kg	17.9	2.2	1	12/02/22 07:57	12/02/22 14:28	120-12-7	
Benzo(a)anthracene	<2.3	ug/kg	17.9	2.3	1	12/02/22 07:57	12/02/22 14:28	56-55-3	
Benzo(a)pyrene	<2.0	ug/kg	17.9	2.0	1	12/02/22 07:57	12/02/22 14:28	50-32-8	
Benzo(b)fluoranthene	<2.5	ug/kg	17.9	2.5	1	12/02/22 07:57	12/02/22 14:28	205-99-2	
Benzo(g,h,i)perylene	<3.1	ug/kg	17.9	3.1	1	12/02/22 07:57	12/02/22 14:28	191-24-2	
Benzo(k)fluoranthene	<2.3	ug/kg	17.9	2.3	1	12/02/22 07:57	12/02/22 14:28	207-08-9	
Chrysene	<3.4	ug/kg	17.9	3.4	1	12/02/22 07:57	12/02/22 14:28	218-01-9	
Dibenz(a,h)anthracene	<2.5	ug/kg	17.9	2.5	1	12/02/22 07:57	12/02/22 14:28	53-70-3	
Fluoranthene	<2.1	ug/kg	17.9	2.1	1	12/02/22 07:57	12/02/22 14:28	206-44-0	
Fluorene	<2.1	ug/kg	17.9	2.1	1	12/02/22 07:57	12/02/22 14:28	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.7	ug/kg	17.9	3.7	1	12/02/22 07:57	12/02/22 14:28	193-39-5	
1-Methylnaphthalene	<2.6	ug/kg	17.9	2.6	1	12/02/22 07:57	12/02/22 14:28	90-12-0	
2-Methylnaphthalene	<2.6	ug/kg	17.9	2.6	1	12/02/22 07:57	12/02/22 14:28	91-57-6	
Naphthalene	<1.7	ug/kg	17.9	1.7	1	12/02/22 07:57	12/02/22 14:28	91-20-3	
Phenanthrene	<2.0	ug/kg	17.9	2.0	1	12/02/22 07:57	12/02/22 14:28	85-01-8	
Pyrene	<2.6	ug/kg	17.9	2.6	1	12/02/22 07:57	12/02/22 14:28	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	73	%	41-98		1	12/02/22 07:57	12/02/22 14:28	321-60-8	
Terphenyl-d14 (S)	70	%	37-106		1	12/02/22 07:57	12/02/22 14:28	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<13.5	ug/kg	22.7	13.5	1	12/07/22 08:30	12/07/22 17:25	71-43-2	
Bromobenzene	<22.2	ug/kg	56.8	22.2	1	12/07/22 08:30	12/07/22 17:25	108-86-1	
Bromochloromethane	<15.6	ug/kg	56.8	15.6	1	12/07/22 08:30	12/07/22 17:25	74-97-5	
Bromodichloromethane	<13.5	ug/kg	56.8	13.5	1	12/07/22 08:30	12/07/22 17:25	75-27-4	
Bromoform	<250	ug/kg	284	250	1	12/07/22 08:30	12/07/22 17:25	75-25-2	
Bromomethane	<79.7	ug/kg	284	79.7	1	12/07/22 08:30	12/07/22 17:25	74-83-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

Sample: **SB-10** Lab ID: **40255397010** Collected: 11/28/22 17:20 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
n-Butylbenzene	<26.0	ug/kg	56.8	26.0	1	12/07/22 08:30	12/07/22 17:25	104-51-8	
sec-Butylbenzene	<13.9	ug/kg	56.8	13.9	1	12/07/22 08:30	12/07/22 17:25	135-98-8	
tert-Butylbenzene	<17.8	ug/kg	56.8	17.8	1	12/07/22 08:30	12/07/22 17:25	98-06-6	
Carbon tetrachloride	<12.5	ug/kg	56.8	12.5	1	12/07/22 08:30	12/07/22 17:25	56-23-5	
Chlorobenzene	<6.8	ug/kg	56.8	6.8	1	12/07/22 08:30	12/07/22 17:25	108-90-7	
Chloroethane	<24.0	ug/kg	284	24.0	1	12/07/22 08:30	12/07/22 17:25	75-00-3	
Chloroform	<40.7	ug/kg	284	40.7	1	12/07/22 08:30	12/07/22 17:25	67-66-3	
Chloromethane	<21.6	ug/kg	56.8	21.6	1	12/07/22 08:30	12/07/22 17:25	74-87-3	
2-Chlorotoluene	<18.4	ug/kg	56.8	18.4	1	12/07/22 08:30	12/07/22 17:25	95-49-8	
4-Chlorotoluene	<21.6	ug/kg	56.8	21.6	1	12/07/22 08:30	12/07/22 17:25	106-43-4	
1,2-Dibromo-3-chloropropane	<44.1	ug/kg	284	44.1	1	12/07/22 08:30	12/07/22 17:25	96-12-8	
Dibromochloromethane	<194	ug/kg	284	194	1	12/07/22 08:30	12/07/22 17:25	124-48-1	
1,2-Dibromoethane (EDB)	<15.6	ug/kg	56.8	15.6	1	12/07/22 08:30	12/07/22 17:25	106-93-4	
Dibromomethane	<16.8	ug/kg	56.8	16.8	1	12/07/22 08:30	12/07/22 17:25	74-95-3	
1,2-Dichlorobenzene	<17.6	ug/kg	56.8	17.6	1	12/07/22 08:30	12/07/22 17:25	95-50-1	
1,3-Dichlorobenzene	<15.6	ug/kg	56.8	15.6	1	12/07/22 08:30	12/07/22 17:25	541-73-1	
1,4-Dichlorobenzene	<15.6	ug/kg	56.8	15.6	1	12/07/22 08:30	12/07/22 17:25	106-46-7	
Dichlorodifluoromethane	<24.4	ug/kg	56.8	24.4	1	12/07/22 08:30	12/07/22 17:25	75-71-8	L1
1,1-Dichloroethane	<14.5	ug/kg	56.8	14.5	1	12/07/22 08:30	12/07/22 17:25	75-34-3	
1,2-Dichloroethane	<13.1	ug/kg	56.8	13.1	1	12/07/22 08:30	12/07/22 17:25	107-06-2	
1,1-Dichloroethene	<18.9	ug/kg	56.8	18.9	1	12/07/22 08:30	12/07/22 17:25	75-35-4	
cis-1,2-Dichloroethene	<12.2	ug/kg	56.8	12.2	1	12/07/22 08:30	12/07/22 17:25	156-59-2	
trans-1,2-Dichloroethene	<12.3	ug/kg	56.8	12.3	1	12/07/22 08:30	12/07/22 17:25	156-60-5	
1,2-Dichloropropane	<13.5	ug/kg	56.8	13.5	1	12/07/22 08:30	12/07/22 17:25	78-87-5	
1,3-Dichloropropane	<12.4	ug/kg	56.8	12.4	1	12/07/22 08:30	12/07/22 17:25	142-28-9	
2,2-Dichloropropane	<15.3	ug/kg	56.8	15.3	1	12/07/22 08:30	12/07/22 17:25	594-20-7	
1,1-Dichloropropene	<18.4	ug/kg	56.8	18.4	1	12/07/22 08:30	12/07/22 17:25	563-58-6	
cis-1,3-Dichloropropene	<37.5	ug/kg	284	37.5	1	12/07/22 08:30	12/07/22 17:25	10061-01-5	
trans-1,3-Dichloropropene	<162	ug/kg	284	162	1	12/07/22 08:30	12/07/22 17:25	10061-02-6	
Diisopropyl ether	<14.1	ug/kg	56.8	14.1	1	12/07/22 08:30	12/07/22 17:25	108-20-3	
Ethylbenzene	<13.5	ug/kg	56.8	13.5	1	12/07/22 08:30	12/07/22 17:25	100-41-4	
Hexachloro-1,3-butadiene	<113	ug/kg	284	113	1	12/07/22 08:30	12/07/22 17:25	87-68-3	
Isopropylbenzene (Cumene)	<15.3	ug/kg	56.8	15.3	1	12/07/22 08:30	12/07/22 17:25	98-82-8	
p-Isopropyltoluene	<17.3	ug/kg	56.8	17.3	1	12/07/22 08:30	12/07/22 17:25	99-87-6	
Methylene Chloride	<15.8	ug/kg	56.8	15.8	1	12/07/22 08:30	12/07/22 17:25	75-09-2	
Methyl-tert-butyl ether	<16.7	ug/kg	56.8	16.7	1	12/07/22 08:30	12/07/22 17:25	1634-04-4	
Naphthalene	<17.7	ug/kg	284	17.7	1	12/07/22 08:30	12/07/22 17:25	91-20-3	
n-Propylbenzene	<13.6	ug/kg	56.8	13.6	1	12/07/22 08:30	12/07/22 17:25	103-65-1	
Styrene	<14.5	ug/kg	56.8	14.5	1	12/07/22 08:30	12/07/22 17:25	100-42-5	
1,1,1,2-Tetrachloroethane	<13.6	ug/kg	56.8	13.6	1	12/07/22 08:30	12/07/22 17:25	630-20-6	
1,1,1,2,2-Tetrachloroethane	<20.6	ug/kg	56.8	20.6	1	12/07/22 08:30	12/07/22 17:25	79-34-5	
Tetrachloroethene	<22.0	ug/kg	56.8	22.0	1	12/07/22 08:30	12/07/22 17:25	127-18-4	
Toluene	<14.3	ug/kg	56.8	14.3	1	12/07/22 08:30	12/07/22 17:25	108-88-3	
1,2,3-Trichlorobenzene	<63.3	ug/kg	284	63.3	1	12/07/22 08:30	12/07/22 17:25	87-61-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-10 **Lab ID: 40255397010** Collected: 11/28/22 17:20 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<46.8	ug/kg	284	46.8	1	12/07/22 08:30	12/07/22 17:25	120-82-1	
1,1,1-Trichloroethane	<14.5	ug/kg	56.8	14.5	1	12/07/22 08:30	12/07/22 17:25	71-55-6	
1,1,2-Trichloroethane	<20.7	ug/kg	56.8	20.7	1	12/07/22 08:30	12/07/22 17:25	79-00-5	
Trichloroethene	<21.2	ug/kg	56.8	21.2	1	12/07/22 08:30	12/07/22 17:25	79-01-6	
Trichlorofluoromethane	<16.5	ug/kg	56.8	16.5	1	12/07/22 08:30	12/07/22 17:25	75-69-4	
1,2,3-Trichloropropane	<27.6	ug/kg	56.8	27.6	1	12/07/22 08:30	12/07/22 17:25	96-18-4	
1,2,4-Trimethylbenzene	<16.9	ug/kg	56.8	16.9	1	12/07/22 08:30	12/07/22 17:25	95-63-6	
1,3,5-Trimethylbenzene	<18.3	ug/kg	56.8	18.3	1	12/07/22 08:30	12/07/22 17:25	108-67-8	
Vinyl chloride	<11.5	ug/kg	56.8	11.5	1	12/07/22 08:30	12/07/22 17:25	75-01-4	
m&p-Xylene	<24.0	ug/kg	114	24.0	1	12/07/22 08:30	12/07/22 17:25	179601-23-1	
o-Xylene	<17.0	ug/kg	56.8	17.0	1	12/07/22 08:30	12/07/22 17:25	95-47-6	
Surrogates									
Toluene-d8 (S)	110	%	69-153		1	12/07/22 08:30	12/07/22 17:25	2037-26-5	
4-Bromofluorobenzene (S)	109	%	68-156		1	12/07/22 08:30	12/07/22 17:25	460-00-4	
1,2-Dichlorobenzene-d4 (S)	112	%	71-161		1	12/07/22 08:30	12/07/22 17:25	2199-69-1	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	6.4	%	0.10	0.10	1		12/01/22 15:13		

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-11 **Lab ID: 40255397011** Collected: 11/28/22 17:30 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	<1.5	mg/kg	2.6	1.5	1	12/02/22 06:42	12/02/22 22:38	7440-38-2	
Barium	39.1	mg/kg	0.53	0.16	1	12/02/22 06:42	12/02/22 22:38	7440-39-3	
Cadmium	<0.14	mg/kg	0.53	0.14	1	12/02/22 06:42	12/02/22 22:38	7440-43-9	
Chromium	10.2	mg/kg	1.1	0.29	1	12/02/22 06:42	12/02/22 22:38	7440-47-3	
Lead	3.5	mg/kg	2.1	0.63	1	12/02/22 06:42	12/02/22 22:38	7439-92-1	
Selenium	<1.4	mg/kg	4.2	1.4	1	12/02/22 06:42	12/02/22 22:38	7782-49-2	
Silver	<0.32	mg/kg	1.1	0.32	1	12/02/22 06:42	12/02/22 22:38	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.011	mg/kg	0.037	0.011	1	12/05/22 09:55	12/06/22 09:24	7439-97-6	
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<2.3	ug/kg	17.9	2.3	1	12/02/22 07:57	12/02/22 16:46	83-32-9	
Acenaphthylene	<2.3	ug/kg	17.9	2.3	1	12/02/22 07:57	12/02/22 16:46	208-96-8	
Anthracene	<2.2	ug/kg	17.9	2.2	1	12/02/22 07:57	12/02/22 16:46	120-12-7	
Benzo(a)anthracene	<2.3	ug/kg	17.9	2.3	1	12/02/22 07:57	12/02/22 16:46	56-55-3	
Benzo(a)pyrene	<2.0	ug/kg	17.9	2.0	1	12/02/22 07:57	12/02/22 16:46	50-32-8	
Benzo(b)fluoranthene	<2.5	ug/kg	17.9	2.5	1	12/02/22 07:57	12/02/22 16:46	205-99-2	
Benzo(g,h,i)perylene	<3.1	ug/kg	17.9	3.1	1	12/02/22 07:57	12/02/22 16:46	191-24-2	
Benzo(k)fluoranthene	<2.3	ug/kg	17.9	2.3	1	12/02/22 07:57	12/02/22 16:46	207-08-9	
Chrysene	<3.4	ug/kg	17.9	3.4	1	12/02/22 07:57	12/02/22 16:46	218-01-9	
Dibenz(a,h)anthracene	<2.5	ug/kg	17.9	2.5	1	12/02/22 07:57	12/02/22 16:46	53-70-3	
Fluoranthene	<2.1	ug/kg	17.9	2.1	1	12/02/22 07:57	12/02/22 16:46	206-44-0	
Fluorene	<2.1	ug/kg	17.9	2.1	1	12/02/22 07:57	12/02/22 16:46	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.7	ug/kg	17.9	3.7	1	12/02/22 07:57	12/02/22 16:46	193-39-5	
1-Methylnaphthalene	<2.6	ug/kg	17.9	2.6	1	12/02/22 07:57	12/02/22 16:46	90-12-0	
2-Methylnaphthalene	<2.6	ug/kg	17.9	2.6	1	12/02/22 07:57	12/02/22 16:46	91-57-6	
Naphthalene	<1.7	ug/kg	17.9	1.7	1	12/02/22 07:57	12/02/22 16:46	91-20-3	
Phenanthrene	<2.0	ug/kg	17.9	2.0	1	12/02/22 07:57	12/02/22 16:46	85-01-8	
Pyrene	<2.6	ug/kg	17.9	2.6	1	12/02/22 07:57	12/02/22 16:46	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	73	%	41-98		1	12/02/22 07:57	12/02/22 16:46	321-60-8	
Terphenyl-d14 (S)	74	%	37-106		1	12/02/22 07:57	12/02/22 16:46	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<13.5	ug/kg	22.8	13.5	1	12/07/22 08:30	12/07/22 17:45	71-43-2	
Bromobenzene	<22.2	ug/kg	56.9	22.2	1	12/07/22 08:30	12/07/22 17:45	108-86-1	
Bromochloromethane	<15.6	ug/kg	56.9	15.6	1	12/07/22 08:30	12/07/22 17:45	74-97-5	
Bromodichloromethane	<13.5	ug/kg	56.9	13.5	1	12/07/22 08:30	12/07/22 17:45	75-27-4	
Bromoform	<250	ug/kg	285	250	1	12/07/22 08:30	12/07/22 17:45	75-25-2	
Bromomethane	<79.8	ug/kg	285	79.8	1	12/07/22 08:30	12/07/22 17:45	74-83-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-11 Lab ID: 40255397011 Collected: 11/28/22 17:30 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
n-Butylbenzene	<26.1	ug/kg	56.9	26.1	1	12/07/22 08:30	12/07/22 17:45	104-51-8	
sec-Butylbenzene	<13.9	ug/kg	56.9	13.9	1	12/07/22 08:30	12/07/22 17:45	135-98-8	
tert-Butylbenzene	<17.9	ug/kg	56.9	17.9	1	12/07/22 08:30	12/07/22 17:45	98-06-6	
Carbon tetrachloride	<12.5	ug/kg	56.9	12.5	1	12/07/22 08:30	12/07/22 17:45	56-23-5	
Chlorobenzene	<6.8	ug/kg	56.9	6.8	1	12/07/22 08:30	12/07/22 17:45	108-90-7	
Chloroethane	<24.0	ug/kg	285	24.0	1	12/07/22 08:30	12/07/22 17:45	75-00-3	
Chloroform	<40.7	ug/kg	285	40.7	1	12/07/22 08:30	12/07/22 17:45	67-66-3	
Chloromethane	<21.6	ug/kg	56.9	21.6	1	12/07/22 08:30	12/07/22 17:45	74-87-3	
2-Chlorotoluene	<18.4	ug/kg	56.9	18.4	1	12/07/22 08:30	12/07/22 17:45	95-49-8	
4-Chlorotoluene	<21.6	ug/kg	56.9	21.6	1	12/07/22 08:30	12/07/22 17:45	106-43-4	
1,2-Dibromo-3-chloropropane	<44.2	ug/kg	285	44.2	1	12/07/22 08:30	12/07/22 17:45	96-12-8	
Dibromochloromethane	<195	ug/kg	285	195	1	12/07/22 08:30	12/07/22 17:45	124-48-1	
1,2-Dibromoethane (EDB)	<15.6	ug/kg	56.9	15.6	1	12/07/22 08:30	12/07/22 17:45	106-93-4	
Dibromomethane	<16.8	ug/kg	56.9	16.8	1	12/07/22 08:30	12/07/22 17:45	74-95-3	
1,2-Dichlorobenzene	<17.6	ug/kg	56.9	17.6	1	12/07/22 08:30	12/07/22 17:45	95-50-1	
1,3-Dichlorobenzene	<15.6	ug/kg	56.9	15.6	1	12/07/22 08:30	12/07/22 17:45	541-73-1	
1,4-Dichlorobenzene	<15.6	ug/kg	56.9	15.6	1	12/07/22 08:30	12/07/22 17:45	106-46-7	
Dichlorodifluoromethane	<24.5	ug/kg	56.9	24.5	1	12/07/22 08:30	12/07/22 17:45	75-71-8	L1
1,1-Dichloroethane	<14.6	ug/kg	56.9	14.6	1	12/07/22 08:30	12/07/22 17:45	75-34-3	
1,2-Dichloroethane	<13.1	ug/kg	56.9	13.1	1	12/07/22 08:30	12/07/22 17:45	107-06-2	
1,1-Dichloroethene	<18.9	ug/kg	56.9	18.9	1	12/07/22 08:30	12/07/22 17:45	75-35-4	
cis-1,2-Dichloroethene	<12.2	ug/kg	56.9	12.2	1	12/07/22 08:30	12/07/22 17:45	156-59-2	
trans-1,2-Dichloroethene	<12.3	ug/kg	56.9	12.3	1	12/07/22 08:30	12/07/22 17:45	156-60-5	
1,2-Dichloropropane	<13.5	ug/kg	56.9	13.5	1	12/07/22 08:30	12/07/22 17:45	78-87-5	
1,3-Dichloropropane	<12.4	ug/kg	56.9	12.4	1	12/07/22 08:30	12/07/22 17:45	142-28-9	
2,2-Dichloropropane	<15.4	ug/kg	56.9	15.4	1	12/07/22 08:30	12/07/22 17:45	594-20-7	
1,1-Dichloropropene	<18.4	ug/kg	56.9	18.4	1	12/07/22 08:30	12/07/22 17:45	563-58-6	
cis-1,3-Dichloropropene	<37.6	ug/kg	285	37.6	1	12/07/22 08:30	12/07/22 17:45	10061-01-5	
trans-1,3-Dichloropropene	<163	ug/kg	285	163	1	12/07/22 08:30	12/07/22 17:45	10061-02-6	
Diisopropyl ether	<14.1	ug/kg	56.9	14.1	1	12/07/22 08:30	12/07/22 17:45	108-20-3	
Ethylbenzene	<13.5	ug/kg	56.9	13.5	1	12/07/22 08:30	12/07/22 17:45	100-41-4	
Hexachloro-1,3-butadiene	<113	ug/kg	285	113	1	12/07/22 08:30	12/07/22 17:45	87-68-3	
Isopropylbenzene (Cumene)	<15.4	ug/kg	56.9	15.4	1	12/07/22 08:30	12/07/22 17:45	98-82-8	
p-Isopropyltoluene	<17.3	ug/kg	56.9	17.3	1	12/07/22 08:30	12/07/22 17:45	99-87-6	
Methylene Chloride	<15.8	ug/kg	56.9	15.8	1	12/07/22 08:30	12/07/22 17:45	75-09-2	
Methyl-tert-butyl ether	<16.7	ug/kg	56.9	16.7	1	12/07/22 08:30	12/07/22 17:45	1634-04-4	
Naphthalene	<17.8	ug/kg	285	17.8	1	12/07/22 08:30	12/07/22 17:45	91-20-3	
n-Propylbenzene	<13.7	ug/kg	56.9	13.7	1	12/07/22 08:30	12/07/22 17:45	103-65-1	
Styrene	<14.6	ug/kg	56.9	14.6	1	12/07/22 08:30	12/07/22 17:45	100-42-5	
1,1,1,2-Tetrachloroethane	<13.7	ug/kg	56.9	13.7	1	12/07/22 08:30	12/07/22 17:45	630-20-6	
1,1,1,2,2-Tetrachloroethane	<20.6	ug/kg	56.9	20.6	1	12/07/22 08:30	12/07/22 17:45	79-34-5	
Tetrachloroethene	<22.1	ug/kg	56.9	22.1	1	12/07/22 08:30	12/07/22 17:45	127-18-4	
Toluene	<14.3	ug/kg	56.9	14.3	1	12/07/22 08:30	12/07/22 17:45	108-88-3	
1,2,3-Trichlorobenzene	<63.4	ug/kg	285	63.4	1	12/07/22 08:30	12/07/22 17:45	87-61-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-11 **Lab ID: 40255397011** Collected: 11/28/22 17:30 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<46.9	ug/kg	285	46.9	1	12/07/22 08:30	12/07/22 17:45	120-82-1	
1,1,1-Trichloroethane	<14.6	ug/kg	56.9	14.6	1	12/07/22 08:30	12/07/22 17:45	71-55-6	
1,1,2-Trichloroethane	<20.7	ug/kg	56.9	20.7	1	12/07/22 08:30	12/07/22 17:45	79-00-5	
Trichloroethene	<21.3	ug/kg	56.9	21.3	1	12/07/22 08:30	12/07/22 17:45	79-01-6	
Trichlorofluoromethane	<16.5	ug/kg	56.9	16.5	1	12/07/22 08:30	12/07/22 17:45	75-69-4	
1,2,3-Trichloropropane	<27.7	ug/kg	56.9	27.7	1	12/07/22 08:30	12/07/22 17:45	96-18-4	
1,2,4-Trimethylbenzene	<17.0	ug/kg	56.9	17.0	1	12/07/22 08:30	12/07/22 17:45	95-63-6	
1,3,5-Trimethylbenzene	<18.3	ug/kg	56.9	18.3	1	12/07/22 08:30	12/07/22 17:45	108-67-8	
Vinyl chloride	<11.5	ug/kg	56.9	11.5	1	12/07/22 08:30	12/07/22 17:45	75-01-4	
m&p-Xylene	<24.0	ug/kg	114	24.0	1	12/07/22 08:30	12/07/22 17:45	179601-23-1	
o-Xylene	<17.1	ug/kg	56.9	17.1	1	12/07/22 08:30	12/07/22 17:45	95-47-6	
Surrogates									
Toluene-d8 (S)	111	%	69-153		1	12/07/22 08:30	12/07/22 17:45	2037-26-5	
4-Bromofluorobenzene (S)	108	%	68-156		1	12/07/22 08:30	12/07/22 17:45	460-00-4	
1,2-Dichlorobenzene-d4 (S)	119	%	71-161		1	12/07/22 08:30	12/07/22 17:45	2199-69-1	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	6.5	%	0.10	0.10	1		12/01/22 15:13		

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-12 **Lab ID: 40255397012** Collected: 11/28/22 17:10 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	<1.5	mg/kg	2.5	1.5	1	12/02/22 06:42	12/02/22 22:46	7440-38-2	
Barium	18.5	mg/kg	0.50	0.15	1	12/02/22 06:42	12/02/22 22:46	7440-39-3	
Cadmium	<0.13	mg/kg	0.50	0.13	1	12/02/22 06:42	12/02/22 22:46	7440-43-9	
Chromium	11.4	mg/kg	1.0	0.28	1	12/02/22 06:42	12/02/22 22:46	7440-47-3	
Lead	1.6J	mg/kg	2.0	0.60	1	12/02/22 06:42	12/02/22 22:46	7439-92-1	
Selenium	<1.3	mg/kg	4.0	1.3	1	12/02/22 06:42	12/02/22 22:46	7782-49-2	
Silver	<0.31	mg/kg	1.0	0.31	1	12/02/22 06:42	12/02/22 22:46	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.0098	mg/kg	0.034	0.0098	1	12/05/22 09:55	12/06/22 09:26	7439-97-6	
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<2.2	ug/kg	17.3	2.2	1	12/05/22 08:18	12/05/22 13:39	83-32-9	
Acenaphthylene	<2.2	ug/kg	17.3	2.2	1	12/05/22 08:18	12/05/22 13:39	208-96-8	
Anthracene	<2.1	ug/kg	17.3	2.1	1	12/05/22 08:18	12/05/22 13:39	120-12-7	
Benzo(a)anthracene	<2.2	ug/kg	17.3	2.2	1	12/05/22 08:18	12/05/22 13:39	56-55-3	
Benzo(a)pyrene	<2.0	ug/kg	17.3	2.0	1	12/05/22 08:18	12/05/22 13:39	50-32-8	
Benzo(b)fluoranthene	<2.4	ug/kg	17.3	2.4	1	12/05/22 08:18	12/05/22 13:39	205-99-2	
Benzo(g,h,i)perylene	<3.0	ug/kg	17.3	3.0	1	12/05/22 08:18	12/05/22 13:39	191-24-2	
Benzo(k)fluoranthene	<2.2	ug/kg	17.3	2.2	1	12/05/22 08:18	12/05/22 13:39	207-08-9	
Chrysene	<3.3	ug/kg	17.3	3.3	1	12/05/22 08:18	12/05/22 13:39	218-01-9	
Dibenz(a,h)anthracene	<2.4	ug/kg	17.3	2.4	1	12/05/22 08:18	12/05/22 13:39	53-70-3	
Fluoranthene	<2.0	ug/kg	17.3	2.0	1	12/05/22 08:18	12/05/22 13:39	206-44-0	
Fluorene	<2.1	ug/kg	17.3	2.1	1	12/05/22 08:18	12/05/22 13:39	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.6	ug/kg	17.3	3.6	1	12/05/22 08:18	12/05/22 13:39	193-39-5	
1-Methylnaphthalene	<2.5	ug/kg	17.3	2.5	1	12/05/22 08:18	12/05/22 13:39	90-12-0	
2-Methylnaphthalene	<2.5	ug/kg	17.3	2.5	1	12/05/22 08:18	12/05/22 13:39	91-57-6	
Naphthalene	<1.7	ug/kg	17.3	1.7	1	12/05/22 08:18	12/05/22 13:39	91-20-3	
Phenanthrene	<2.0	ug/kg	17.3	2.0	1	12/05/22 08:18	12/05/22 13:39	85-01-8	
Pyrene	<2.5	ug/kg	17.3	2.5	1	12/05/22 08:18	12/05/22 13:39	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	81	%	41-98		1	12/05/22 08:18	12/05/22 13:39	321-60-8	
Terphenyl-d14 (S)	78	%	37-106		1	12/05/22 08:18	12/05/22 13:39	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<12.7	ug/kg	21.3	12.7	1	12/07/22 07:00	12/07/22 13:04	71-43-2	
Bromobenzene	<20.8	ug/kg	53.4	20.8	1	12/07/22 07:00	12/07/22 13:04	108-86-1	
Bromochloromethane	<14.6	ug/kg	53.4	14.6	1	12/07/22 07:00	12/07/22 13:04	74-97-5	
Bromodichloromethane	<12.7	ug/kg	53.4	12.7	1	12/07/22 07:00	12/07/22 13:04	75-27-4	
Bromoform	<235	ug/kg	267	235	1	12/07/22 07:00	12/07/22 13:04	75-25-2	
Bromomethane	<74.8	ug/kg	267	74.8	1	12/07/22 07:00	12/07/22 13:04	74-83-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

Sample: SB-12 **Lab ID: 40255397012** Collected: 11/28/22 17:10 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
n-Butylbenzene	<24.4	ug/kg	53.4	24.4	1	12/07/22 07:00	12/07/22 13:04	104-51-8	
sec-Butylbenzene	<13.0	ug/kg	53.4	13.0	1	12/07/22 07:00	12/07/22 13:04	135-98-8	
tert-Butylbenzene	<16.8	ug/kg	53.4	16.8	1	12/07/22 07:00	12/07/22 13:04	98-06-6	
Carbon tetrachloride	<11.7	ug/kg	53.4	11.7	1	12/07/22 07:00	12/07/22 13:04	56-23-5	
Chlorobenzene	<6.4	ug/kg	53.4	6.4	1	12/07/22 07:00	12/07/22 13:04	108-90-7	
Chloroethane	<22.5	ug/kg	267	22.5	1	12/07/22 07:00	12/07/22 13:04	75-00-3	
Chloroform	<38.2	ug/kg	267	38.2	1	12/07/22 07:00	12/07/22 13:04	67-66-3	
Chloromethane	<20.3	ug/kg	53.4	20.3	1	12/07/22 07:00	12/07/22 13:04	74-87-3	
2-Chlorotoluene	<17.3	ug/kg	53.4	17.3	1	12/07/22 07:00	12/07/22 13:04	95-49-8	
4-Chlorotoluene	<20.3	ug/kg	53.4	20.3	1	12/07/22 07:00	12/07/22 13:04	106-43-4	
1,2-Dibromo-3-chloropropane	<41.4	ug/kg	267	41.4	1	12/07/22 07:00	12/07/22 13:04	96-12-8	
Dibromochloromethane	<182	ug/kg	267	182	1	12/07/22 07:00	12/07/22 13:04	124-48-1	
1,2-Dibromoethane (EDB)	<14.6	ug/kg	53.4	14.6	1	12/07/22 07:00	12/07/22 13:04	106-93-4	
Dibromomethane	<15.8	ug/kg	53.4	15.8	1	12/07/22 07:00	12/07/22 13:04	74-95-3	
1,2-Dichlorobenzene	<16.5	ug/kg	53.4	16.5	1	12/07/22 07:00	12/07/22 13:04	95-50-1	
1,3-Dichlorobenzene	<14.6	ug/kg	53.4	14.6	1	12/07/22 07:00	12/07/22 13:04	541-73-1	
1,4-Dichlorobenzene	<14.6	ug/kg	53.4	14.6	1	12/07/22 07:00	12/07/22 13:04	106-46-7	
Dichlorodifluoromethane	<22.9	ug/kg	53.4	22.9	1	12/07/22 07:00	12/07/22 13:04	75-71-8	
1,1-Dichloroethane	<13.7	ug/kg	53.4	13.7	1	12/07/22 07:00	12/07/22 13:04	75-34-3	
1,2-Dichloroethane	<12.3	ug/kg	53.4	12.3	1	12/07/22 07:00	12/07/22 13:04	107-06-2	
1,1-Dichloroethene	<17.7	ug/kg	53.4	17.7	1	12/07/22 07:00	12/07/22 13:04	75-35-4	
cis-1,2-Dichloroethene	<11.4	ug/kg	53.4	11.4	1	12/07/22 07:00	12/07/22 13:04	156-59-2	
trans-1,2-Dichloroethene	<11.5	ug/kg	53.4	11.5	1	12/07/22 07:00	12/07/22 13:04	156-60-5	
1,2-Dichloropropane	<12.7	ug/kg	53.4	12.7	1	12/07/22 07:00	12/07/22 13:04	78-87-5	
1,3-Dichloropropane	<11.6	ug/kg	53.4	11.6	1	12/07/22 07:00	12/07/22 13:04	142-28-9	
2,2-Dichloropropane	<14.4	ug/kg	53.4	14.4	1	12/07/22 07:00	12/07/22 13:04	594-20-7	
1,1-Dichloropropene	<17.3	ug/kg	53.4	17.3	1	12/07/22 07:00	12/07/22 13:04	563-58-6	
cis-1,3-Dichloropropene	<35.2	ug/kg	267	35.2	1	12/07/22 07:00	12/07/22 13:04	10061-01-5	
trans-1,3-Dichloropropene	<153	ug/kg	267	153	1	12/07/22 07:00	12/07/22 13:04	10061-02-6	
Diisopropyl ether	<13.2	ug/kg	53.4	13.2	1	12/07/22 07:00	12/07/22 13:04	108-20-3	
Ethylbenzene	<12.7	ug/kg	53.4	12.7	1	12/07/22 07:00	12/07/22 13:04	100-41-4	
Hexachloro-1,3-butadiene	<106	ug/kg	267	106	1	12/07/22 07:00	12/07/22 13:04	87-68-3	
Isopropylbenzene (Cumene)	<14.4	ug/kg	53.4	14.4	1	12/07/22 07:00	12/07/22 13:04	98-82-8	
p-Isopropyltoluene	<16.2	ug/kg	53.4	16.2	1	12/07/22 07:00	12/07/22 13:04	99-87-6	
Methylene Chloride	<14.8	ug/kg	53.4	14.8	1	12/07/22 07:00	12/07/22 13:04	75-09-2	
Methyl-tert-butyl ether	<15.7	ug/kg	53.4	15.7	1	12/07/22 07:00	12/07/22 13:04	1634-04-4	
Naphthalene	<16.6	ug/kg	267	16.6	1	12/07/22 07:00	12/07/22 13:04	91-20-3	
n-Propylbenzene	<12.8	ug/kg	53.4	12.8	1	12/07/22 07:00	12/07/22 13:04	103-65-1	
Styrene	<13.7	ug/kg	53.4	13.7	1	12/07/22 07:00	12/07/22 13:04	100-42-5	
1,1,1,2-Tetrachloroethane	<12.8	ug/kg	53.4	12.8	1	12/07/22 07:00	12/07/22 13:04	630-20-6	
1,1,1,2,2-Tetrachloroethane	<19.3	ug/kg	53.4	19.3	1	12/07/22 07:00	12/07/22 13:04	79-34-5	
Tetrachloroethene	<20.7	ug/kg	53.4	20.7	1	12/07/22 07:00	12/07/22 13:04	127-18-4	
Toluene	<13.4	ug/kg	53.4	13.4	1	12/07/22 07:00	12/07/22 13:04	108-88-3	
1,2,3-Trichlorobenzene	<59.4	ug/kg	267	59.4	1	12/07/22 07:00	12/07/22 13:04	87-61-6	

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-12 **Lab ID: 40255397012** Collected: 11/28/22 17:10 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<44.0	ug/kg	267	44.0	1	12/07/22 07:00	12/07/22 13:04	120-82-1	
1,1,1-Trichloroethane	<13.7	ug/kg	53.4	13.7	1	12/07/22 07:00	12/07/22 13:04	71-55-6	
1,1,2-Trichloroethane	<19.4	ug/kg	53.4	19.4	1	12/07/22 07:00	12/07/22 13:04	79-00-5	
Trichloroethene	<20.0	ug/kg	53.4	20.0	1	12/07/22 07:00	12/07/22 13:04	79-01-6	
Trichlorofluoromethane	<15.5	ug/kg	53.4	15.5	1	12/07/22 07:00	12/07/22 13:04	75-69-4	
1,2,3-Trichloropropane	<25.9	ug/kg	53.4	25.9	1	12/07/22 07:00	12/07/22 13:04	96-18-4	
1,2,4-Trimethylbenzene	<15.9	ug/kg	53.4	15.9	1	12/07/22 07:00	12/07/22 13:04	95-63-6	
1,3,5-Trimethylbenzene	<17.2	ug/kg	53.4	17.2	1	12/07/22 07:00	12/07/22 13:04	108-67-8	
Vinyl chloride	<10.8	ug/kg	53.4	10.8	1	12/07/22 07:00	12/07/22 13:04	75-01-4	
m&p-Xylene	<22.5	ug/kg	107	22.5	1	12/07/22 07:00	12/07/22 13:04	179601-23-1	
o-Xylene	<16.0	ug/kg	53.4	16.0	1	12/07/22 07:00	12/07/22 13:04	95-47-6	
Surrogates									
Toluene-d8 (S)	104	%	69-153		1	12/07/22 07:00	12/07/22 13:04	2037-26-5	
4-Bromofluorobenzene (S)	107	%	68-156		1	12/07/22 07:00	12/07/22 13:04	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	71-161		1	12/07/22 07:00	12/07/22 13:04	2199-69-1	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	3.3	%	0.10	0.10	1		12/01/22 15:13		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-13 **Lab ID: 40255397013** Collected: 11/28/22 15:30 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	<1.6	mg/kg	2.7	1.6	1	12/02/22 06:42	12/02/22 22:48	7440-38-2	
Barium	60.4	mg/kg	0.55	0.16	1	12/02/22 06:42	12/02/22 22:48	7440-39-3	
Cadmium	<0.15	mg/kg	0.55	0.15	1	12/02/22 06:42	12/02/22 22:48	7440-43-9	
Chromium	8.9	mg/kg	1.1	0.30	1	12/02/22 06:42	12/02/22 22:48	7440-47-3	
Lead	12.0	mg/kg	2.2	0.66	1	12/02/22 06:42	12/02/22 22:48	7439-92-1	
Selenium	<1.4	mg/kg	4.4	1.4	1	12/02/22 06:42	12/02/22 22:48	7782-49-2	
Silver	<0.34	mg/kg	1.1	0.34	1	12/02/22 06:42	12/02/22 22:48	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.010	mg/kg	0.036	0.010	1	12/05/22 09:55	12/06/22 09:28	7439-97-6	
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<2.4	ug/kg	18.6	2.4	1	12/05/22 08:18	12/05/22 17:07	83-32-9	
Acenaphthylene	<2.3	ug/kg	18.6	2.3	1	12/05/22 08:18	12/05/22 17:07	208-96-8	
Anthracene	<2.3	ug/kg	18.6	2.3	1	12/05/22 08:18	12/05/22 17:07	120-12-7	
Benzo(a)anthracene	3.7J	ug/kg	18.6	2.4	1	12/05/22 08:18	12/05/22 17:07	56-55-3	
Benzo(a)pyrene	2.6J	ug/kg	18.6	2.1	1	12/05/22 08:18	12/05/22 17:07	50-32-8	
Benzo(b)fluoranthene	4.8J	ug/kg	18.6	2.6	1	12/05/22 08:18	12/05/22 17:07	205-99-2	
Benzo(g,h,i)perylene	<3.3	ug/kg	18.6	3.3	1	12/05/22 08:18	12/05/22 17:07	191-24-2	
Benzo(k)fluoranthene	<2.4	ug/kg	18.6	2.4	1	12/05/22 08:18	12/05/22 17:07	207-08-9	
Chrysene	3.7J	ug/kg	18.6	3.5	1	12/05/22 08:18	12/05/22 17:07	218-01-9	
Dibenz(a,h)anthracene	<2.6	ug/kg	18.6	2.6	1	12/05/22 08:18	12/05/22 17:07	53-70-3	
Fluoranthene	5.0J	ug/kg	18.6	2.2	1	12/05/22 08:18	12/05/22 17:07	206-44-0	
Fluorene	<2.2	ug/kg	18.6	2.2	1	12/05/22 08:18	12/05/22 17:07	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.9	ug/kg	18.6	3.9	1	12/05/22 08:18	12/05/22 17:07	193-39-5	
1-Methylnaphthalene	<2.7	ug/kg	18.6	2.7	1	12/05/22 08:18	12/05/22 17:07	90-12-0	
2-Methylnaphthalene	<2.7	ug/kg	18.6	2.7	1	12/05/22 08:18	12/05/22 17:07	91-57-6	
Naphthalene	<1.8	ug/kg	18.6	1.8	1	12/05/22 08:18	12/05/22 17:07	91-20-3	
Phenanthrene	2.4J	ug/kg	18.6	2.1	1	12/05/22 08:18	12/05/22 17:07	85-01-8	
Pyrene	4.8J	ug/kg	18.6	2.7	1	12/05/22 08:18	12/05/22 17:07	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	59	%	41-98		1	12/05/22 08:18	12/05/22 17:07	321-60-8	
Terphenyl-d14 (S)	60	%	37-106		1	12/05/22 08:18	12/05/22 17:07	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<14.6	ug/kg	24.6	14.6	1	12/07/22 07:00	12/07/22 13:23	71-43-2	
Bromobenzene	<24.0	ug/kg	61.4	24.0	1	12/07/22 07:00	12/07/22 13:23	108-86-1	
Bromochloromethane	<16.8	ug/kg	61.4	16.8	1	12/07/22 07:00	12/07/22 13:23	74-97-5	
Bromodichloromethane	<14.6	ug/kg	61.4	14.6	1	12/07/22 07:00	12/07/22 13:23	75-27-4	
Bromoform	<270	ug/kg	307	270	1	12/07/22 07:00	12/07/22 13:23	75-25-2	
Bromomethane	<86.1	ug/kg	307	86.1	1	12/07/22 07:00	12/07/22 13:23	74-83-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-13 Lab ID: 40255397013 Collected: 11/28/22 15:30 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
n-Butylbenzene	<28.1	ug/kg	61.4	28.1	1	12/07/22 07:00	12/07/22 13:23	104-51-8	
sec-Butylbenzene	<15.0	ug/kg	61.4	15.0	1	12/07/22 07:00	12/07/22 13:23	135-98-8	
tert-Butylbenzene	<19.3	ug/kg	61.4	19.3	1	12/07/22 07:00	12/07/22 13:23	98-06-6	
Carbon tetrachloride	<13.5	ug/kg	61.4	13.5	1	12/07/22 07:00	12/07/22 13:23	56-23-5	
Chlorobenzene	<7.4	ug/kg	61.4	7.4	1	12/07/22 07:00	12/07/22 13:23	108-90-7	
Chloroethane	<25.9	ug/kg	307	25.9	1	12/07/22 07:00	12/07/22 13:23	75-00-3	
Chloroform	<44.0	ug/kg	307	44.0	1	12/07/22 07:00	12/07/22 13:23	67-66-3	
Chloromethane	<23.3	ug/kg	61.4	23.3	1	12/07/22 07:00	12/07/22 13:23	74-87-3	
2-Chlorotoluene	<19.9	ug/kg	61.4	19.9	1	12/07/22 07:00	12/07/22 13:23	95-49-8	
4-Chlorotoluene	<23.3	ug/kg	61.4	23.3	1	12/07/22 07:00	12/07/22 13:23	106-43-4	
1,2-Dibromo-3-chloropropane	<47.7	ug/kg	307	47.7	1	12/07/22 07:00	12/07/22 13:23	96-12-8	
Dibromochloromethane	<210	ug/kg	307	210	1	12/07/22 07:00	12/07/22 13:23	124-48-1	
1,2-Dibromoethane (EDB)	<16.8	ug/kg	61.4	16.8	1	12/07/22 07:00	12/07/22 13:23	106-93-4	
Dibromomethane	<18.2	ug/kg	61.4	18.2	1	12/07/22 07:00	12/07/22 13:23	74-95-3	
1,2-Dichlorobenzene	<19.0	ug/kg	61.4	19.0	1	12/07/22 07:00	12/07/22 13:23	95-50-1	
1,3-Dichlorobenzene	<16.8	ug/kg	61.4	16.8	1	12/07/22 07:00	12/07/22 13:23	541-73-1	
1,4-Dichlorobenzene	<16.8	ug/kg	61.4	16.8	1	12/07/22 07:00	12/07/22 13:23	106-46-7	
Dichlorodifluoromethane	<26.4	ug/kg	61.4	26.4	1	12/07/22 07:00	12/07/22 13:23	75-71-8	
1,1-Dichloroethane	<15.7	ug/kg	61.4	15.7	1	12/07/22 07:00	12/07/22 13:23	75-34-3	
1,2-Dichloroethane	<14.1	ug/kg	61.4	14.1	1	12/07/22 07:00	12/07/22 13:23	107-06-2	
1,1-Dichloroethene	<20.4	ug/kg	61.4	20.4	1	12/07/22 07:00	12/07/22 13:23	75-35-4	
cis-1,2-Dichloroethene	<13.1	ug/kg	61.4	13.1	1	12/07/22 07:00	12/07/22 13:23	156-59-2	
trans-1,2-Dichloroethene	<13.3	ug/kg	61.4	13.3	1	12/07/22 07:00	12/07/22 13:23	156-60-5	
1,2-Dichloropropane	<14.6	ug/kg	61.4	14.6	1	12/07/22 07:00	12/07/22 13:23	78-87-5	
1,3-Dichloropropane	<13.4	ug/kg	61.4	13.4	1	12/07/22 07:00	12/07/22 13:23	142-28-9	
2,2-Dichloropropane	<16.6	ug/kg	61.4	16.6	1	12/07/22 07:00	12/07/22 13:23	594-20-7	
1,1-Dichloropropene	<19.9	ug/kg	61.4	19.9	1	12/07/22 07:00	12/07/22 13:23	563-58-6	
cis-1,3-Dichloropropene	<40.5	ug/kg	307	40.5	1	12/07/22 07:00	12/07/22 13:23	10061-01-5	
trans-1,3-Dichloropropene	<176	ug/kg	307	176	1	12/07/22 07:00	12/07/22 13:23	10061-02-6	
Diisopropyl ether	<15.2	ug/kg	61.4	15.2	1	12/07/22 07:00	12/07/22 13:23	108-20-3	
Ethylbenzene	<14.6	ug/kg	61.4	14.6	1	12/07/22 07:00	12/07/22 13:23	100-41-4	
Hexachloro-1,3-butadiene	<122	ug/kg	307	122	1	12/07/22 07:00	12/07/22 13:23	87-68-3	
Isopropylbenzene (Cumene)	<16.6	ug/kg	61.4	16.6	1	12/07/22 07:00	12/07/22 13:23	98-82-8	
p-Isopropyltoluene	<18.7	ug/kg	61.4	18.7	1	12/07/22 07:00	12/07/22 13:23	99-87-6	
Methylene Chloride	<17.1	ug/kg	61.4	17.1	1	12/07/22 07:00	12/07/22 13:23	75-09-2	
Methyl-tert-butyl ether	<18.1	ug/kg	61.4	18.1	1	12/07/22 07:00	12/07/22 13:23	1634-04-4	
Naphthalene	<19.2	ug/kg	307	19.2	1	12/07/22 07:00	12/07/22 13:23	91-20-3	
n-Propylbenzene	<14.7	ug/kg	61.4	14.7	1	12/07/22 07:00	12/07/22 13:23	103-65-1	
Styrene	<15.7	ug/kg	61.4	15.7	1	12/07/22 07:00	12/07/22 13:23	100-42-5	
1,1,1,2-Tetrachloroethane	<14.7	ug/kg	61.4	14.7	1	12/07/22 07:00	12/07/22 13:23	630-20-6	
1,1,1,2,2-Tetrachloroethane	<22.2	ug/kg	61.4	22.2	1	12/07/22 07:00	12/07/22 13:23	79-34-5	
Tetrachloroethene	<23.8	ug/kg	61.4	23.8	1	12/07/22 07:00	12/07/22 13:23	127-18-4	
Toluene	<15.5	ug/kg	61.4	15.5	1	12/07/22 07:00	12/07/22 13:23	108-88-3	
1,2,3-Trichlorobenzene	<68.4	ug/kg	307	68.4	1	12/07/22 07:00	12/07/22 13:23	87-61-6	

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-13 **Lab ID: 40255397013** Collected: 11/28/22 15:30 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<50.6	ug/kg	307	50.6	1	12/07/22 07:00	12/07/22 13:23	120-82-1	
1,1,1-Trichloroethane	<15.7	ug/kg	61.4	15.7	1	12/07/22 07:00	12/07/22 13:23	71-55-6	
1,1,2-Trichloroethane	<22.4	ug/kg	61.4	22.4	1	12/07/22 07:00	12/07/22 13:23	79-00-5	
Trichloroethene	<23.0	ug/kg	61.4	23.0	1	12/07/22 07:00	12/07/22 13:23	79-01-6	
Trichlorofluoromethane	<17.8	ug/kg	61.4	17.8	1	12/07/22 07:00	12/07/22 13:23	75-69-4	
1,2,3-Trichloropropane	<29.9	ug/kg	61.4	29.9	1	12/07/22 07:00	12/07/22 13:23	96-18-4	
1,2,4-Trimethylbenzene	<18.3	ug/kg	61.4	18.3	1	12/07/22 07:00	12/07/22 13:23	95-63-6	
1,3,5-Trimethylbenzene	<19.8	ug/kg	61.4	19.8	1	12/07/22 07:00	12/07/22 13:23	108-67-8	
Vinyl chloride	<12.4	ug/kg	61.4	12.4	1	12/07/22 07:00	12/07/22 13:23	75-01-4	
m&p-Xylene	<25.9	ug/kg	123	25.9	1	12/07/22 07:00	12/07/22 13:23	179601-23-1	
o-Xylene	<18.4	ug/kg	61.4	18.4	1	12/07/22 07:00	12/07/22 13:23	95-47-6	
Surrogates									
Toluene-d8 (S)	117	%	69-153		1	12/07/22 07:00	12/07/22 13:23	2037-26-5	
4-Bromofluorobenzene (S)	120	%	68-156		1	12/07/22 07:00	12/07/22 13:23	460-00-4	
1,2-Dichlorobenzene-d4 (S)	118	%	71-161		1	12/07/22 07:00	12/07/22 13:23	2199-69-1	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	10.3	%	0.10	0.10	1		12/01/22 15:13		

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

Sample: SB-14 **Lab ID: 40255397014** Collected: 11/28/22 15:40 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	<1.5	mg/kg	2.6	1.5	1	12/02/22 06:42	12/02/22 22:51	7440-38-2	
Barium	51.0	mg/kg	0.52	0.16	1	12/02/22 06:42	12/02/22 22:51	7440-39-3	
Cadmium	<0.14	mg/kg	0.52	0.14	1	12/02/22 06:42	12/02/22 22:51	7440-43-9	
Chromium	8.1	mg/kg	1.0	0.29	1	12/02/22 06:42	12/02/22 22:51	7440-47-3	
Lead	5.1	mg/kg	2.1	0.63	1	12/02/22 06:42	12/02/22 22:51	7439-92-1	
Selenium	<1.4	mg/kg	4.2	1.4	1	12/02/22 06:42	12/02/22 22:51	7782-49-2	
Silver	<0.32	mg/kg	1.0	0.32	1	12/02/22 06:42	12/02/22 22:51	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.011	mg/kg	0.037	0.011	1	12/05/22 09:55	12/06/22 09:31	7439-97-6	
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<2.3	ug/kg	17.9	2.3	1	12/05/22 08:18	12/05/22 13:22	83-32-9	
Acenaphthylene	<2.3	ug/kg	17.9	2.3	1	12/05/22 08:18	12/05/22 13:22	208-96-8	
Anthracene	<2.2	ug/kg	17.9	2.2	1	12/05/22 08:18	12/05/22 13:22	120-12-7	
Benzo(a)anthracene	<2.3	ug/kg	17.9	2.3	1	12/05/22 08:18	12/05/22 13:22	56-55-3	
Benzo(a)pyrene	<2.0	ug/kg	17.9	2.0	1	12/05/22 08:18	12/05/22 13:22	50-32-8	
Benzo(b)fluoranthene	<2.5	ug/kg	17.9	2.5	1	12/05/22 08:18	12/05/22 13:22	205-99-2	
Benzo(g,h,i)perylene	<3.1	ug/kg	17.9	3.1	1	12/05/22 08:18	12/05/22 13:22	191-24-2	
Benzo(k)fluoranthene	<2.3	ug/kg	17.9	2.3	1	12/05/22 08:18	12/05/22 13:22	207-08-9	
Chrysene	<3.4	ug/kg	17.9	3.4	1	12/05/22 08:18	12/05/22 13:22	218-01-9	
Dibenz(a,h)anthracene	<2.5	ug/kg	17.9	2.5	1	12/05/22 08:18	12/05/22 13:22	53-70-3	
Fluoranthene	<2.1	ug/kg	17.9	2.1	1	12/05/22 08:18	12/05/22 13:22	206-44-0	
Fluorene	<2.1	ug/kg	17.9	2.1	1	12/05/22 08:18	12/05/22 13:22	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.7	ug/kg	17.9	3.7	1	12/05/22 08:18	12/05/22 13:22	193-39-5	
1-Methylnaphthalene	<2.6	ug/kg	17.9	2.6	1	12/05/22 08:18	12/05/22 13:22	90-12-0	
2-Methylnaphthalene	<2.6	ug/kg	17.9	2.6	1	12/05/22 08:18	12/05/22 13:22	91-57-6	
Naphthalene	<1.7	ug/kg	17.9	1.7	1	12/05/22 08:18	12/05/22 13:22	91-20-3	
Phenanthrene	<2.1	ug/kg	17.9	2.1	1	12/05/22 08:18	12/05/22 13:22	85-01-8	
Pyrene	<2.6	ug/kg	17.9	2.6	1	12/05/22 08:18	12/05/22 13:22	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	73	%	41-98		1	12/05/22 08:18	12/05/22 13:22	321-60-8	
Terphenyl-d14 (S)	72	%	37-106		1	12/05/22 08:18	12/05/22 13:22	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<13.6	ug/kg	22.8	13.6	1	12/07/22 07:00	12/07/22 13:43	71-43-2	
Bromobenzene	<22.3	ug/kg	57.1	22.3	1	12/07/22 07:00	12/07/22 13:43	108-86-1	
Bromochloromethane	<15.7	ug/kg	57.1	15.7	1	12/07/22 07:00	12/07/22 13:43	74-97-5	
Bromodichloromethane	<13.6	ug/kg	57.1	13.6	1	12/07/22 07:00	12/07/22 13:43	75-27-4	
Bromoform	<251	ug/kg	286	251	1	12/07/22 07:00	12/07/22 13:43	75-25-2	
Bromomethane	<80.1	ug/kg	286	80.1	1	12/07/22 07:00	12/07/22 13:43	74-83-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

Sample: **SB-14** Lab ID: **40255397014** Collected: 11/28/22 15:40 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
n-Butylbenzene	<26.2	ug/kg	57.1	26.2	1	12/07/22 07:00	12/07/22 13:43	104-51-8	
sec-Butylbenzene	<13.9	ug/kg	57.1	13.9	1	12/07/22 07:00	12/07/22 13:43	135-98-8	
tert-Butylbenzene	<17.9	ug/kg	57.1	17.9	1	12/07/22 07:00	12/07/22 13:43	98-06-6	
Carbon tetrachloride	<12.6	ug/kg	57.1	12.6	1	12/07/22 07:00	12/07/22 13:43	56-23-5	
Chlorobenzene	<6.8	ug/kg	57.1	6.8	1	12/07/22 07:00	12/07/22 13:43	108-90-7	
Chloroethane	<24.1	ug/kg	286	24.1	1	12/07/22 07:00	12/07/22 13:43	75-00-3	
Chloroform	<40.9	ug/kg	286	40.9	1	12/07/22 07:00	12/07/22 13:43	67-66-3	
Chloromethane	<21.7	ug/kg	57.1	21.7	1	12/07/22 07:00	12/07/22 13:43	74-87-3	
2-Chlorotoluene	<18.5	ug/kg	57.1	18.5	1	12/07/22 07:00	12/07/22 13:43	95-49-8	
4-Chlorotoluene	<21.7	ug/kg	57.1	21.7	1	12/07/22 07:00	12/07/22 13:43	106-43-4	
1,2-Dibromo-3-chloropropane	<44.3	ug/kg	286	44.3	1	12/07/22 07:00	12/07/22 13:43	96-12-8	
Dibromochloromethane	<195	ug/kg	286	195	1	12/07/22 07:00	12/07/22 13:43	124-48-1	
1,2-Dibromoethane (EDB)	<15.7	ug/kg	57.1	15.7	1	12/07/22 07:00	12/07/22 13:43	106-93-4	
Dibromomethane	<16.9	ug/kg	57.1	16.9	1	12/07/22 07:00	12/07/22 13:43	74-95-3	
1,2-Dichlorobenzene	<17.7	ug/kg	57.1	17.7	1	12/07/22 07:00	12/07/22 13:43	95-50-1	
1,3-Dichlorobenzene	<15.7	ug/kg	57.1	15.7	1	12/07/22 07:00	12/07/22 13:43	541-73-1	
1,4-Dichlorobenzene	<15.7	ug/kg	57.1	15.7	1	12/07/22 07:00	12/07/22 13:43	106-46-7	
Dichlorodifluoromethane	<24.6	ug/kg	57.1	24.6	1	12/07/22 07:00	12/07/22 13:43	75-71-8	
1,1-Dichloroethane	<14.6	ug/kg	57.1	14.6	1	12/07/22 07:00	12/07/22 13:43	75-34-3	
1,2-Dichloroethane	<13.1	ug/kg	57.1	13.1	1	12/07/22 07:00	12/07/22 13:43	107-06-2	
1,1-Dichloroethene	<19.0	ug/kg	57.1	19.0	1	12/07/22 07:00	12/07/22 13:43	75-35-4	
cis-1,2-Dichloroethene	<12.2	ug/kg	57.1	12.2	1	12/07/22 07:00	12/07/22 13:43	156-59-2	
trans-1,2-Dichloroethene	<12.3	ug/kg	57.1	12.3	1	12/07/22 07:00	12/07/22 13:43	156-60-5	
1,2-Dichloropropane	<13.6	ug/kg	57.1	13.6	1	12/07/22 07:00	12/07/22 13:43	78-87-5	
1,3-Dichloropropane	<12.5	ug/kg	57.1	12.5	1	12/07/22 07:00	12/07/22 13:43	142-28-9	
2,2-Dichloropropane	<15.4	ug/kg	57.1	15.4	1	12/07/22 07:00	12/07/22 13:43	594-20-7	
1,1-Dichloropropene	<18.5	ug/kg	57.1	18.5	1	12/07/22 07:00	12/07/22 13:43	563-58-6	
cis-1,3-Dichloropropene	<37.7	ug/kg	286	37.7	1	12/07/22 07:00	12/07/22 13:43	10061-01-5	
trans-1,3-Dichloropropene	<163	ug/kg	286	163	1	12/07/22 07:00	12/07/22 13:43	10061-02-6	
Diisopropyl ether	<14.2	ug/kg	57.1	14.2	1	12/07/22 07:00	12/07/22 13:43	108-20-3	
Ethylbenzene	<13.6	ug/kg	57.1	13.6	1	12/07/22 07:00	12/07/22 13:43	100-41-4	
Hexachloro-1,3-butadiene	<114	ug/kg	286	114	1	12/07/22 07:00	12/07/22 13:43	87-68-3	
Isopropylbenzene (Cumene)	<15.4	ug/kg	57.1	15.4	1	12/07/22 07:00	12/07/22 13:43	98-82-8	
p-Isopropyltoluene	<17.4	ug/kg	57.1	17.4	1	12/07/22 07:00	12/07/22 13:43	99-87-6	
Methylene Chloride	<15.9	ug/kg	57.1	15.9	1	12/07/22 07:00	12/07/22 13:43	75-09-2	
Methyl-tert-butyl ether	<16.8	ug/kg	57.1	16.8	1	12/07/22 07:00	12/07/22 13:43	1634-04-4	
Naphthalene	<17.8	ug/kg	286	17.8	1	12/07/22 07:00	12/07/22 13:43	91-20-3	
n-Propylbenzene	<13.7	ug/kg	57.1	13.7	1	12/07/22 07:00	12/07/22 13:43	103-65-1	
Styrene	<14.6	ug/kg	57.1	14.6	1	12/07/22 07:00	12/07/22 13:43	100-42-5	
1,1,1,2-Tetrachloroethane	<13.7	ug/kg	57.1	13.7	1	12/07/22 07:00	12/07/22 13:43	630-20-6	
1,1,1,2,2-Tetrachloroethane	<20.7	ug/kg	57.1	20.7	1	12/07/22 07:00	12/07/22 13:43	79-34-5	
Tetrachloroethene	<22.2	ug/kg	57.1	22.2	1	12/07/22 07:00	12/07/22 13:43	127-18-4	
Toluene	<14.4	ug/kg	57.1	14.4	1	12/07/22 07:00	12/07/22 13:43	108-88-3	
1,2,3-Trichlorobenzene	<63.6	ug/kg	286	63.6	1	12/07/22 07:00	12/07/22 13:43	87-61-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-14 **Lab ID: 40255397014** Collected: 11/28/22 15:40 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<47.1	ug/kg	286	47.1	1	12/07/22 07:00	12/07/22 13:43	120-82-1	
1,1,1-Trichloroethane	<14.6	ug/kg	57.1	14.6	1	12/07/22 07:00	12/07/22 13:43	71-55-6	
1,1,2-Trichloroethane	<20.8	ug/kg	57.1	20.8	1	12/07/22 07:00	12/07/22 13:43	79-00-5	
Trichloroethene	<21.4	ug/kg	57.1	21.4	1	12/07/22 07:00	12/07/22 13:43	79-01-6	
Trichlorofluoromethane	<16.6	ug/kg	57.1	16.6	1	12/07/22 07:00	12/07/22 13:43	75-69-4	
1,2,3-Trichloropropane	<27.8	ug/kg	57.1	27.8	1	12/07/22 07:00	12/07/22 13:43	96-18-4	
1,2,4-Trimethylbenzene	<17.0	ug/kg	57.1	17.0	1	12/07/22 07:00	12/07/22 13:43	95-63-6	
1,3,5-Trimethylbenzene	<18.4	ug/kg	57.1	18.4	1	12/07/22 07:00	12/07/22 13:43	108-67-8	
Vinyl chloride	<11.5	ug/kg	57.1	11.5	1	12/07/22 07:00	12/07/22 13:43	75-01-4	
m&p-Xylene	<24.1	ug/kg	114	24.1	1	12/07/22 07:00	12/07/22 13:43	179601-23-1	
o-Xylene	<17.1	ug/kg	57.1	17.1	1	12/07/22 07:00	12/07/22 13:43	95-47-6	
Surrogates									
Toluene-d8 (S)	117	%	69-153		1	12/07/22 07:00	12/07/22 13:43	2037-26-5	
4-Bromofluorobenzene (S)	121	%	68-156		1	12/07/22 07:00	12/07/22 13:43	460-00-4	
1,2-Dichlorobenzene-d4 (S)	120	%	71-161		1	12/07/22 07:00	12/07/22 13:43	2199-69-1	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	6.6	%	0.10	0.10	1		12/01/22 15:13		

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-15 **Lab ID: 40255397015** Collected: 11/28/22 15:50 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	1.8J	mg/kg	2.6	1.5	1	12/02/22 06:42	12/02/22 22:53	7440-38-2	
Barium	56.7	mg/kg	0.51	0.15	1	12/02/22 06:42	12/02/22 22:53	7440-39-3	
Cadmium	<0.14	mg/kg	0.51	0.14	1	12/02/22 06:42	12/02/22 22:53	7440-43-9	
Chromium	10.1	mg/kg	1.0	0.28	1	12/02/22 06:42	12/02/22 22:53	7440-47-3	
Lead	5.4	mg/kg	2.0	0.61	1	12/02/22 06:42	12/02/22 22:53	7439-92-1	
Selenium	<1.3	mg/kg	4.1	1.3	1	12/02/22 06:42	12/02/22 22:53	7782-49-2	
Silver	<0.31	mg/kg	1.0	0.31	1	12/02/22 06:42	12/02/22 22:53	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.010	mg/kg	0.037	0.010	1	12/05/22 09:55	12/06/22 09:33	7439-97-6	
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<2.4	ug/kg	18.3	2.4	1	12/05/22 08:18	12/05/22 17:24	83-32-9	
Acenaphthylene	<2.3	ug/kg	18.3	2.3	1	12/05/22 08:18	12/05/22 17:24	208-96-8	
Anthracene	<2.3	ug/kg	18.3	2.3	1	12/05/22 08:18	12/05/22 17:24	120-12-7	
Benzo(a)anthracene	<2.4	ug/kg	18.3	2.4	1	12/05/22 08:18	12/05/22 17:24	56-55-3	
Benzo(a)pyrene	<2.1	ug/kg	18.3	2.1	1	12/05/22 08:18	12/05/22 17:24	50-32-8	
Benzo(b)fluoranthene	<2.5	ug/kg	18.3	2.5	1	12/05/22 08:18	12/05/22 17:24	205-99-2	
Benzo(g,h,i)perylene	<3.2	ug/kg	18.3	3.2	1	12/05/22 08:18	12/05/22 17:24	191-24-2	
Benzo(k)fluoranthene	<2.3	ug/kg	18.3	2.3	1	12/05/22 08:18	12/05/22 17:24	207-08-9	
Chrysene	<3.4	ug/kg	18.3	3.4	1	12/05/22 08:18	12/05/22 17:24	218-01-9	
Dibenz(a,h)anthracene	<2.5	ug/kg	18.3	2.5	1	12/05/22 08:18	12/05/22 17:24	53-70-3	
Fluoranthene	<2.2	ug/kg	18.3	2.2	1	12/05/22 08:18	12/05/22 17:24	206-44-0	
Fluorene	<2.2	ug/kg	18.3	2.2	1	12/05/22 08:18	12/05/22 17:24	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.8	ug/kg	18.3	3.8	1	12/05/22 08:18	12/05/22 17:24	193-39-5	
1-Methylnaphthalene	<2.7	ug/kg	18.3	2.7	1	12/05/22 08:18	12/05/22 17:24	90-12-0	
2-Methylnaphthalene	<2.7	ug/kg	18.3	2.7	1	12/05/22 08:18	12/05/22 17:24	91-57-6	
Naphthalene	<1.8	ug/kg	18.3	1.8	1	12/05/22 08:18	12/05/22 17:24	91-20-3	
Phenanthrene	<2.1	ug/kg	18.3	2.1	1	12/05/22 08:18	12/05/22 17:24	85-01-8	
Pyrene	<2.7	ug/kg	18.3	2.7	1	12/05/22 08:18	12/05/22 17:24	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	68	%	41-98		1	12/05/22 08:18	12/05/22 17:24	321-60-8	
Terphenyl-d14 (S)	72	%	37-106		1	12/05/22 08:18	12/05/22 17:24	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<14.1	ug/kg	23.7	14.1	1	12/07/22 07:00	12/07/22 14:02	71-43-2	
Bromobenzene	<23.1	ug/kg	59.3	23.1	1	12/07/22 07:00	12/07/22 14:02	108-86-1	
Bromochloromethane	<16.2	ug/kg	59.3	16.2	1	12/07/22 07:00	12/07/22 14:02	74-97-5	
Bromodichloromethane	<14.1	ug/kg	59.3	14.1	1	12/07/22 07:00	12/07/22 14:02	75-27-4	
Bromoform	<261	ug/kg	296	261	1	12/07/22 07:00	12/07/22 14:02	75-25-2	
Bromomethane	<83.1	ug/kg	296	83.1	1	12/07/22 07:00	12/07/22 14:02	74-83-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-15 **Lab ID: 40255397015** Collected: 11/28/22 15:50 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
n-Butylbenzene	<27.1	ug/kg	59.3	27.1	1	12/07/22 07:00	12/07/22 14:02	104-51-8	
sec-Butylbenzene	<14.5	ug/kg	59.3	14.5	1	12/07/22 07:00	12/07/22 14:02	135-98-8	
tert-Butylbenzene	<18.6	ug/kg	59.3	18.6	1	12/07/22 07:00	12/07/22 14:02	98-06-6	
Carbon tetrachloride	<13.0	ug/kg	59.3	13.0	1	12/07/22 07:00	12/07/22 14:02	56-23-5	
Chlorobenzene	<7.1	ug/kg	59.3	7.1	1	12/07/22 07:00	12/07/22 14:02	108-90-7	
Chloroethane	<25.0	ug/kg	296	25.0	1	12/07/22 07:00	12/07/22 14:02	75-00-3	
Chloroform	<42.4	ug/kg	296	42.4	1	12/07/22 07:00	12/07/22 14:02	67-66-3	
Chloromethane	<22.5	ug/kg	59.3	22.5	1	12/07/22 07:00	12/07/22 14:02	74-87-3	
2-Chlorotoluene	<19.2	ug/kg	59.3	19.2	1	12/07/22 07:00	12/07/22 14:02	95-49-8	
4-Chlorotoluene	<22.5	ug/kg	59.3	22.5	1	12/07/22 07:00	12/07/22 14:02	106-43-4	
1,2-Dibromo-3-chloropropane	<46.0	ug/kg	296	46.0	1	12/07/22 07:00	12/07/22 14:02	96-12-8	
Dibromochloromethane	<203	ug/kg	296	203	1	12/07/22 07:00	12/07/22 14:02	124-48-1	
1,2-Dibromoethane (EDB)	<16.2	ug/kg	59.3	16.2	1	12/07/22 07:00	12/07/22 14:02	106-93-4	
Dibromomethane	<17.5	ug/kg	59.3	17.5	1	12/07/22 07:00	12/07/22 14:02	74-95-3	
1,2-Dichlorobenzene	<18.4	ug/kg	59.3	18.4	1	12/07/22 07:00	12/07/22 14:02	95-50-1	
1,3-Dichlorobenzene	<16.2	ug/kg	59.3	16.2	1	12/07/22 07:00	12/07/22 14:02	541-73-1	
1,4-Dichlorobenzene	<16.2	ug/kg	59.3	16.2	1	12/07/22 07:00	12/07/22 14:02	106-46-7	
Dichlorodifluoromethane	<25.5	ug/kg	59.3	25.5	1	12/07/22 07:00	12/07/22 14:02	75-71-8	
1,1-Dichloroethane	<15.2	ug/kg	59.3	15.2	1	12/07/22 07:00	12/07/22 14:02	75-34-3	
1,2-Dichloroethane	<13.6	ug/kg	59.3	13.6	1	12/07/22 07:00	12/07/22 14:02	107-06-2	
1,1-Dichloroethene	<19.7	ug/kg	59.3	19.7	1	12/07/22 07:00	12/07/22 14:02	75-35-4	
cis-1,2-Dichloroethene	<12.7	ug/kg	59.3	12.7	1	12/07/22 07:00	12/07/22 14:02	156-59-2	
trans-1,2-Dichloroethene	<12.8	ug/kg	59.3	12.8	1	12/07/22 07:00	12/07/22 14:02	156-60-5	
1,2-Dichloropropane	<14.1	ug/kg	59.3	14.1	1	12/07/22 07:00	12/07/22 14:02	78-87-5	
1,3-Dichloropropane	<12.9	ug/kg	59.3	12.9	1	12/07/22 07:00	12/07/22 14:02	142-28-9	
2,2-Dichloropropane	<16.0	ug/kg	59.3	16.0	1	12/07/22 07:00	12/07/22 14:02	594-20-7	
1,1-Dichloropropene	<19.2	ug/kg	59.3	19.2	1	12/07/22 07:00	12/07/22 14:02	563-58-6	
cis-1,3-Dichloropropene	<39.1	ug/kg	296	39.1	1	12/07/22 07:00	12/07/22 14:02	10061-01-5	
trans-1,3-Dichloropropene	<170	ug/kg	296	170	1	12/07/22 07:00	12/07/22 14:02	10061-02-6	
Diisopropyl ether	<14.7	ug/kg	59.3	14.7	1	12/07/22 07:00	12/07/22 14:02	108-20-3	
Ethylbenzene	<14.1	ug/kg	59.3	14.1	1	12/07/22 07:00	12/07/22 14:02	100-41-4	
Hexachloro-1,3-butadiene	<118	ug/kg	296	118	1	12/07/22 07:00	12/07/22 14:02	87-68-3	
Isopropylbenzene (Cumene)	<16.0	ug/kg	59.3	16.0	1	12/07/22 07:00	12/07/22 14:02	98-82-8	
p-Isopropyltoluene	<18.0	ug/kg	59.3	18.0	1	12/07/22 07:00	12/07/22 14:02	99-87-6	
Methylene Chloride	<16.5	ug/kg	59.3	16.5	1	12/07/22 07:00	12/07/22 14:02	75-09-2	
Methyl-tert-butyl ether	<17.4	ug/kg	59.3	17.4	1	12/07/22 07:00	12/07/22 14:02	1634-04-4	
Naphthalene	<18.5	ug/kg	296	18.5	1	12/07/22 07:00	12/07/22 14:02	91-20-3	
n-Propylbenzene	<14.2	ug/kg	59.3	14.2	1	12/07/22 07:00	12/07/22 14:02	103-65-1	
Styrene	<15.2	ug/kg	59.3	15.2	1	12/07/22 07:00	12/07/22 14:02	100-42-5	
1,1,1,2-Tetrachloroethane	<14.2	ug/kg	59.3	14.2	1	12/07/22 07:00	12/07/22 14:02	630-20-6	
1,1,1,2,2-Tetrachloroethane	<21.5	ug/kg	59.3	21.5	1	12/07/22 07:00	12/07/22 14:02	79-34-5	
Tetrachloroethene	<23.0	ug/kg	59.3	23.0	1	12/07/22 07:00	12/07/22 14:02	127-18-4	
Toluene	<14.9	ug/kg	59.3	14.9	1	12/07/22 07:00	12/07/22 14:02	108-88-3	
1,2,3-Trichlorobenzene	<66.0	ug/kg	296	66.0	1	12/07/22 07:00	12/07/22 14:02	87-61-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-15 **Lab ID: 40255397015** Collected: 11/28/22 15:50 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<48.8	ug/kg	296	48.8	1	12/07/22 07:00	12/07/22 14:02	120-82-1	
1,1,1-Trichloroethane	<15.2	ug/kg	59.3	15.2	1	12/07/22 07:00	12/07/22 14:02	71-55-6	
1,1,2-Trichloroethane	<21.6	ug/kg	59.3	21.6	1	12/07/22 07:00	12/07/22 14:02	79-00-5	
Trichloroethene	<22.2	ug/kg	59.3	22.2	1	12/07/22 07:00	12/07/22 14:02	79-01-6	
Trichlorofluoromethane	<17.2	ug/kg	59.3	17.2	1	12/07/22 07:00	12/07/22 14:02	75-69-4	
1,2,3-Trichloropropane	<28.8	ug/kg	59.3	28.8	1	12/07/22 07:00	12/07/22 14:02	96-18-4	
1,2,4-Trimethylbenzene	<17.7	ug/kg	59.3	17.7	1	12/07/22 07:00	12/07/22 14:02	95-63-6	
1,3,5-Trimethylbenzene	<19.1	ug/kg	59.3	19.1	1	12/07/22 07:00	12/07/22 14:02	108-67-8	
Vinyl chloride	<12.0	ug/kg	59.3	12.0	1	12/07/22 07:00	12/07/22 14:02	75-01-4	
m&p-Xylene	<25.0	ug/kg	119	25.0	1	12/07/22 07:00	12/07/22 14:02	179601-23-1	
o-Xylene	<17.8	ug/kg	59.3	17.8	1	12/07/22 07:00	12/07/22 14:02	95-47-6	
Surrogates									
Toluene-d8 (S)	113	%	69-153		1	12/07/22 07:00	12/07/22 14:02	2037-26-5	
4-Bromofluorobenzene (S)	121	%	68-156		1	12/07/22 07:00	12/07/22 14:02	460-00-4	
1,2-Dichlorobenzene-d4 (S)	119	%	71-161		1	12/07/22 07:00	12/07/22 14:02	2199-69-1	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	8.5	%	0.10	0.10	1		12/01/22 15:13		

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-16 **Lab ID: 40255397016** Collected: 11/28/22 16:00 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	1.6J	mg/kg	2.7	1.6	1	12/02/22 06:42	12/02/22 22:56	7440-38-2	
Barium	55.2	mg/kg	0.54	0.16	1	12/02/22 06:42	12/02/22 22:56	7440-39-3	
Cadmium	<0.14	mg/kg	0.54	0.14	1	12/02/22 06:42	12/02/22 22:56	7440-43-9	
Chromium	9.1	mg/kg	1.1	0.30	1	12/02/22 06:42	12/02/22 22:56	7440-47-3	
Lead	5.2	mg/kg	2.1	0.64	1	12/02/22 06:42	12/02/22 22:56	7439-92-1	
Selenium	<1.4	mg/kg	4.3	1.4	1	12/02/22 06:42	12/02/22 22:56	7782-49-2	
Silver	<0.33	mg/kg	1.1	0.33	1	12/02/22 06:42	12/02/22 22:56	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.0095	mg/kg	0.033	0.0095	1	12/05/22 09:55	12/06/22 09:40	7439-97-6	
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<2.3	ug/kg	18.0	2.3	1	12/06/22 08:13	12/06/22 15:50	83-32-9	
Acenaphthylene	<2.3	ug/kg	18.0	2.3	1	12/06/22 08:13	12/06/22 15:50	208-96-8	
Anthracene	<2.2	ug/kg	18.0	2.2	1	12/06/22 08:13	12/06/22 15:50	120-12-7	
Benzo(a)anthracene	<2.3	ug/kg	18.0	2.3	1	12/06/22 08:13	12/06/22 15:50	56-55-3	
Benzo(a)pyrene	<2.0	ug/kg	18.0	2.0	1	12/06/22 08:13	12/06/22 15:50	50-32-8	
Benzo(b)fluoranthene	<2.5	ug/kg	18.0	2.5	1	12/06/22 08:13	12/06/22 15:50	205-99-2	
Benzo(g,h,i)perylene	<3.2	ug/kg	18.0	3.2	1	12/06/22 08:13	12/06/22 15:50	191-24-2	
Benzo(k)fluoranthene	<2.3	ug/kg	18.0	2.3	1	12/06/22 08:13	12/06/22 15:50	207-08-9	
Chrysene	<3.4	ug/kg	18.0	3.4	1	12/06/22 08:13	12/06/22 15:50	218-01-9	
Dibenz(a,h)anthracene	<2.5	ug/kg	18.0	2.5	1	12/06/22 08:13	12/06/22 15:50	53-70-3	
Fluoranthene	<2.1	ug/kg	18.0	2.1	1	12/06/22 08:13	12/06/22 15:50	206-44-0	
Fluorene	<2.2	ug/kg	18.0	2.2	1	12/06/22 08:13	12/06/22 15:50	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.7	ug/kg	18.0	3.7	1	12/06/22 08:13	12/06/22 15:50	193-39-5	
1-Methylnaphthalene	<2.6	ug/kg	18.0	2.6	1	12/06/22 08:13	12/06/22 15:50	90-12-0	
2-Methylnaphthalene	<2.6	ug/kg	18.0	2.6	1	12/06/22 08:13	12/06/22 15:50	91-57-6	
Naphthalene	<1.8	ug/kg	18.0	1.8	1	12/06/22 08:13	12/06/22 15:50	91-20-3	
Phenanthrene	<2.1	ug/kg	18.0	2.1	1	12/06/22 08:13	12/06/22 15:50	85-01-8	
Pyrene	<2.6	ug/kg	18.0	2.6	1	12/06/22 08:13	12/06/22 15:50	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	73	%	41-98		1	12/06/22 08:13	12/06/22 15:50	321-60-8	
Terphenyl-d14 (S)	72	%	37-106		1	12/06/22 08:13	12/06/22 15:50	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<13.7	ug/kg	23.0	13.7	1	12/07/22 07:00	12/07/22 14:21	71-43-2	
Bromobenzene	<22.4	ug/kg	57.5	22.4	1	12/07/22 07:00	12/07/22 14:21	108-86-1	
Bromochloromethane	<15.8	ug/kg	57.5	15.8	1	12/07/22 07:00	12/07/22 14:21	74-97-5	
Bromodichloromethane	<13.7	ug/kg	57.5	13.7	1	12/07/22 07:00	12/07/22 14:21	75-27-4	
Bromoform	<253	ug/kg	288	253	1	12/07/22 07:00	12/07/22 14:21	75-25-2	
Bromomethane	<80.7	ug/kg	288	80.7	1	12/07/22 07:00	12/07/22 14:21	74-83-9	

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

Sample: SB-16 Lab ID: 40255397016 Collected: 11/28/22 16:00 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
n-Butylbenzene	<26.4	ug/kg	57.5	26.4	1	12/07/22 07:00	12/07/22 14:21	104-51-8	
sec-Butylbenzene	<14.0	ug/kg	57.5	14.0	1	12/07/22 07:00	12/07/22 14:21	135-98-8	
tert-Butylbenzene	<18.1	ug/kg	57.5	18.1	1	12/07/22 07:00	12/07/22 14:21	98-06-6	
Carbon tetrachloride	<12.7	ug/kg	57.5	12.7	1	12/07/22 07:00	12/07/22 14:21	56-23-5	
Chlorobenzene	<6.9	ug/kg	57.5	6.9	1	12/07/22 07:00	12/07/22 14:21	108-90-7	
Chloroethane	<24.3	ug/kg	288	24.3	1	12/07/22 07:00	12/07/22 14:21	75-00-3	
Chloroform	<41.2	ug/kg	288	41.2	1	12/07/22 07:00	12/07/22 14:21	67-66-3	
Chloromethane	<21.9	ug/kg	57.5	21.9	1	12/07/22 07:00	12/07/22 14:21	74-87-3	
2-Chlorotoluene	<18.6	ug/kg	57.5	18.6	1	12/07/22 07:00	12/07/22 14:21	95-49-8	
4-Chlorotoluene	<21.9	ug/kg	57.5	21.9	1	12/07/22 07:00	12/07/22 14:21	106-43-4	
1,2-Dibromo-3-chloropropane	<44.7	ug/kg	288	44.7	1	12/07/22 07:00	12/07/22 14:21	96-12-8	
Dibromochloromethane	<197	ug/kg	288	197	1	12/07/22 07:00	12/07/22 14:21	124-48-1	
1,2-Dibromoethane (EDB)	<15.8	ug/kg	57.5	15.8	1	12/07/22 07:00	12/07/22 14:21	106-93-4	
Dibromomethane	<17.0	ug/kg	57.5	17.0	1	12/07/22 07:00	12/07/22 14:21	74-95-3	
1,2-Dichlorobenzene	<17.8	ug/kg	57.5	17.8	1	12/07/22 07:00	12/07/22 14:21	95-50-1	
1,3-Dichlorobenzene	<15.8	ug/kg	57.5	15.8	1	12/07/22 07:00	12/07/22 14:21	541-73-1	
1,4-Dichlorobenzene	<15.8	ug/kg	57.5	15.8	1	12/07/22 07:00	12/07/22 14:21	106-46-7	
Dichlorodifluoromethane	<24.7	ug/kg	57.5	24.7	1	12/07/22 07:00	12/07/22 14:21	75-71-8	
1,1-Dichloroethane	<14.7	ug/kg	57.5	14.7	1	12/07/22 07:00	12/07/22 14:21	75-34-3	
1,2-Dichloroethane	<13.2	ug/kg	57.5	13.2	1	12/07/22 07:00	12/07/22 14:21	107-06-2	
1,1-Dichloroethene	<19.1	ug/kg	57.5	19.1	1	12/07/22 07:00	12/07/22 14:21	75-35-4	
cis-1,2-Dichloroethene	<12.3	ug/kg	57.5	12.3	1	12/07/22 07:00	12/07/22 14:21	156-59-2	
trans-1,2-Dichloroethene	<12.4	ug/kg	57.5	12.4	1	12/07/22 07:00	12/07/22 14:21	156-60-5	
1,2-Dichloropropane	<13.7	ug/kg	57.5	13.7	1	12/07/22 07:00	12/07/22 14:21	78-87-5	
1,3-Dichloropropane	<12.5	ug/kg	57.5	12.5	1	12/07/22 07:00	12/07/22 14:21	142-28-9	
2,2-Dichloropropane	<15.5	ug/kg	57.5	15.5	1	12/07/22 07:00	12/07/22 14:21	594-20-7	
1,1-Dichloropropene	<18.6	ug/kg	57.5	18.6	1	12/07/22 07:00	12/07/22 14:21	563-58-6	
cis-1,3-Dichloropropene	<38.0	ug/kg	288	38.0	1	12/07/22 07:00	12/07/22 14:21	10061-01-5	
trans-1,3-Dichloropropene	<165	ug/kg	288	165	1	12/07/22 07:00	12/07/22 14:21	10061-02-6	
Diisopropyl ether	<14.3	ug/kg	57.5	14.3	1	12/07/22 07:00	12/07/22 14:21	108-20-3	
Ethylbenzene	<13.7	ug/kg	57.5	13.7	1	12/07/22 07:00	12/07/22 14:21	100-41-4	
Hexachloro-1,3-butadiene	<114	ug/kg	288	114	1	12/07/22 07:00	12/07/22 14:21	87-68-3	
Isopropylbenzene (Cumene)	<15.5	ug/kg	57.5	15.5	1	12/07/22 07:00	12/07/22 14:21	98-82-8	
p-Isopropyltoluene	<17.5	ug/kg	57.5	17.5	1	12/07/22 07:00	12/07/22 14:21	99-87-6	
Methylene Chloride	<16.0	ug/kg	57.5	16.0	1	12/07/22 07:00	12/07/22 14:21	75-09-2	
Methyl-tert-butyl ether	<16.9	ug/kg	57.5	16.9	1	12/07/22 07:00	12/07/22 14:21	1634-04-4	
Naphthalene	<18.0	ug/kg	288	18.0	1	12/07/22 07:00	12/07/22 14:21	91-20-3	
n-Propylbenzene	<13.8	ug/kg	57.5	13.8	1	12/07/22 07:00	12/07/22 14:21	103-65-1	
Styrene	<14.7	ug/kg	57.5	14.7	1	12/07/22 07:00	12/07/22 14:21	100-42-5	
1,1,1,2-Tetrachloroethane	<13.8	ug/kg	57.5	13.8	1	12/07/22 07:00	12/07/22 14:21	630-20-6	
1,1,1,2,2-Tetrachloroethane	<20.8	ug/kg	57.5	20.8	1	12/07/22 07:00	12/07/22 14:21	79-34-5	
Tetrachloroethene	<22.3	ug/kg	57.5	22.3	1	12/07/22 07:00	12/07/22 14:21	127-18-4	
Toluene	<14.5	ug/kg	57.5	14.5	1	12/07/22 07:00	12/07/22 14:21	108-88-3	
1,2,3-Trichlorobenzene	<64.1	ug/kg	288	64.1	1	12/07/22 07:00	12/07/22 14:21	87-61-6	

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

Sample: SB-16 **Lab ID: 40255397016** Collected: 11/28/22 16:00 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<47.4	ug/kg	288	47.4	1	12/07/22 07:00	12/07/22 14:21	120-82-1	
1,1,1-Trichloroethane	<14.7	ug/kg	57.5	14.7	1	12/07/22 07:00	12/07/22 14:21	71-55-6	
1,1,2-Trichloroethane	<20.9	ug/kg	57.5	20.9	1	12/07/22 07:00	12/07/22 14:21	79-00-5	
Trichloroethene	<21.5	ug/kg	57.5	21.5	1	12/07/22 07:00	12/07/22 14:21	79-01-6	
Trichlorofluoromethane	<16.7	ug/kg	57.5	16.7	1	12/07/22 07:00	12/07/22 14:21	75-69-4	
1,2,3-Trichloropropane	<28.0	ug/kg	57.5	28.0	1	12/07/22 07:00	12/07/22 14:21	96-18-4	
1,2,4-Trimethylbenzene	<17.1	ug/kg	57.5	17.1	1	12/07/22 07:00	12/07/22 14:21	95-63-6	
1,3,5-Trimethylbenzene	<18.5	ug/kg	57.5	18.5	1	12/07/22 07:00	12/07/22 14:21	108-67-8	
Vinyl chloride	<11.6	ug/kg	57.5	11.6	1	12/07/22 07:00	12/07/22 14:21	75-01-4	
m&p-Xylene	<24.3	ug/kg	115	24.3	1	12/07/22 07:00	12/07/22 14:21	179601-23-1	
o-Xylene	<17.3	ug/kg	57.5	17.3	1	12/07/22 07:00	12/07/22 14:21	95-47-6	
Surrogates									
Toluene-d8 (S)	111	%	69-153		1	12/07/22 07:00	12/07/22 14:21	2037-26-5	
4-Bromofluorobenzene (S)	117	%	68-156		1	12/07/22 07:00	12/07/22 14:21	460-00-4	
1,2-Dichlorobenzene-d4 (S)	115	%	71-161		1	12/07/22 07:00	12/07/22 14:21	2199-69-1	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	7.0	%	0.10	0.10	1		12/01/22 15:13		

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-17 **Lab ID: 40255397017** Collected: 11/28/22 14:40 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	1.9J	mg/kg	2.5	1.5	1	12/02/22 06:42	12/02/22 22:58	7440-38-2	
Barium	42.9	mg/kg	0.50	0.15	1	12/02/22 06:42	12/02/22 22:58	7440-39-3	
Cadmium	<0.13	mg/kg	0.50	0.13	1	12/02/22 06:42	12/02/22 22:58	7440-43-9	
Chromium	11.4	mg/kg	1.0	0.28	1	12/02/22 06:42	12/02/22 22:58	7440-47-3	
Lead	3.3	mg/kg	2.0	0.60	1	12/02/22 06:42	12/02/22 22:58	7439-92-1	
Selenium	<1.3	mg/kg	4.0	1.3	1	12/02/22 06:42	12/02/22 22:58	7782-49-2	
Silver	<0.31	mg/kg	1.0	0.31	1	12/02/22 06:42	12/02/22 22:58	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.0096	mg/kg	0.034	0.0096	1	12/05/22 09:55	12/06/22 09:42	7439-97-6	
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<2.3	ug/kg	17.5	2.3	1	12/06/22 08:13	12/06/22 16:07	83-32-9	
Acenaphthylene	<2.2	ug/kg	17.5	2.2	1	12/06/22 08:13	12/06/22 16:07	208-96-8	
Anthracene	<2.2	ug/kg	17.5	2.2	1	12/06/22 08:13	12/06/22 16:07	120-12-7	
Benzo(a)anthracene	<2.3	ug/kg	17.5	2.3	1	12/06/22 08:13	12/06/22 16:07	56-55-3	
Benzo(a)pyrene	<2.0	ug/kg	17.5	2.0	1	12/06/22 08:13	12/06/22 16:07	50-32-8	
Benzo(b)fluoranthene	<2.4	ug/kg	17.5	2.4	1	12/06/22 08:13	12/06/22 16:07	205-99-2	
Benzo(g,h,i)perylene	<3.1	ug/kg	17.5	3.1	1	12/06/22 08:13	12/06/22 16:07	191-24-2	
Benzo(k)fluoranthene	<2.2	ug/kg	17.5	2.2	1	12/06/22 08:13	12/06/22 16:07	207-08-9	
Chrysene	<3.3	ug/kg	17.5	3.3	1	12/06/22 08:13	12/06/22 16:07	218-01-9	
Dibenz(a,h)anthracene	<2.4	ug/kg	17.5	2.4	1	12/06/22 08:13	12/06/22 16:07	53-70-3	
Fluoranthene	<2.1	ug/kg	17.5	2.1	1	12/06/22 08:13	12/06/22 16:07	206-44-0	
Fluorene	<2.1	ug/kg	17.5	2.1	1	12/06/22 08:13	12/06/22 16:07	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.6	ug/kg	17.5	3.6	1	12/06/22 08:13	12/06/22 16:07	193-39-5	
1-Methylnaphthalene	<2.6	ug/kg	17.5	2.6	1	12/06/22 08:13	12/06/22 16:07	90-12-0	
2-Methylnaphthalene	<2.6	ug/kg	17.5	2.6	1	12/06/22 08:13	12/06/22 16:07	91-57-6	
Naphthalene	<1.7	ug/kg	17.5	1.7	1	12/06/22 08:13	12/06/22 16:07	91-20-3	
Phenanthrene	<2.0	ug/kg	17.5	2.0	1	12/06/22 08:13	12/06/22 16:07	85-01-8	
Pyrene	<2.6	ug/kg	17.5	2.6	1	12/06/22 08:13	12/06/22 16:07	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%	41-98		1	12/06/22 08:13	12/06/22 16:07	321-60-8	
Terphenyl-d14 (S)	62	%	37-106		1	12/06/22 08:13	12/06/22 16:07	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<13.0	ug/kg	21.9	13.0	1	12/07/22 07:00	12/07/22 14:41	71-43-2	
Bromobenzene	<21.3	ug/kg	54.7	21.3	1	12/07/22 07:00	12/07/22 14:41	108-86-1	
Bromochloromethane	<15.0	ug/kg	54.7	15.0	1	12/07/22 07:00	12/07/22 14:41	74-97-5	
Bromodichloromethane	<13.0	ug/kg	54.7	13.0	1	12/07/22 07:00	12/07/22 14:41	75-27-4	
Bromoform	<241	ug/kg	274	241	1	12/07/22 07:00	12/07/22 14:41	75-25-2	
Bromomethane	<76.7	ug/kg	274	76.7	1	12/07/22 07:00	12/07/22 14:41	74-83-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

Sample: SB-17 Lab ID: 40255397017 Collected: 11/28/22 14:40 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
n-Butylbenzene	<25.1	ug/kg	54.7	25.1	1	12/07/22 07:00	12/07/22 14:41	104-51-8	
sec-Butylbenzene	<13.4	ug/kg	54.7	13.4	1	12/07/22 07:00	12/07/22 14:41	135-98-8	
tert-Butylbenzene	<17.2	ug/kg	54.7	17.2	1	12/07/22 07:00	12/07/22 14:41	98-06-6	
Carbon tetrachloride	<12.0	ug/kg	54.7	12.0	1	12/07/22 07:00	12/07/22 14:41	56-23-5	
Chlorobenzene	<6.6	ug/kg	54.7	6.6	1	12/07/22 07:00	12/07/22 14:41	108-90-7	
Chloroethane	<23.1	ug/kg	274	23.1	1	12/07/22 07:00	12/07/22 14:41	75-00-3	
Chloroform	<39.2	ug/kg	274	39.2	1	12/07/22 07:00	12/07/22 14:41	67-66-3	
Chloromethane	<20.8	ug/kg	54.7	20.8	1	12/07/22 07:00	12/07/22 14:41	74-87-3	
2-Chlorotoluene	<17.7	ug/kg	54.7	17.7	1	12/07/22 07:00	12/07/22 14:41	95-49-8	
4-Chlorotoluene	<20.8	ug/kg	54.7	20.8	1	12/07/22 07:00	12/07/22 14:41	106-43-4	
1,2-Dibromo-3-chloropropane	<42.5	ug/kg	274	42.5	1	12/07/22 07:00	12/07/22 14:41	96-12-8	
Dibromochloromethane	<187	ug/kg	274	187	1	12/07/22 07:00	12/07/22 14:41	124-48-1	
1,2-Dibromoethane (EDB)	<15.0	ug/kg	54.7	15.0	1	12/07/22 07:00	12/07/22 14:41	106-93-4	
Dibromomethane	<16.2	ug/kg	54.7	16.2	1	12/07/22 07:00	12/07/22 14:41	74-95-3	
1,2-Dichlorobenzene	<17.0	ug/kg	54.7	17.0	1	12/07/22 07:00	12/07/22 14:41	95-50-1	
1,3-Dichlorobenzene	<15.0	ug/kg	54.7	15.0	1	12/07/22 07:00	12/07/22 14:41	541-73-1	
1,4-Dichlorobenzene	<15.0	ug/kg	54.7	15.0	1	12/07/22 07:00	12/07/22 14:41	106-46-7	
Dichlorodifluoromethane	<23.5	ug/kg	54.7	23.5	1	12/07/22 07:00	12/07/22 14:41	75-71-8	
1,1-Dichloroethane	<14.0	ug/kg	54.7	14.0	1	12/07/22 07:00	12/07/22 14:41	75-34-3	
1,2-Dichloroethane	<12.6	ug/kg	54.7	12.6	1	12/07/22 07:00	12/07/22 14:41	107-06-2	
1,1-Dichloroethene	<18.2	ug/kg	54.7	18.2	1	12/07/22 07:00	12/07/22 14:41	75-35-4	
cis-1,2-Dichloroethene	<11.7	ug/kg	54.7	11.7	1	12/07/22 07:00	12/07/22 14:41	156-59-2	
trans-1,2-Dichloroethene	<11.8	ug/kg	54.7	11.8	1	12/07/22 07:00	12/07/22 14:41	156-60-5	
1,2-Dichloropropane	<13.0	ug/kg	54.7	13.0	1	12/07/22 07:00	12/07/22 14:41	78-87-5	
1,3-Dichloropropane	<11.9	ug/kg	54.7	11.9	1	12/07/22 07:00	12/07/22 14:41	142-28-9	
2,2-Dichloropropane	<14.8	ug/kg	54.7	14.8	1	12/07/22 07:00	12/07/22 14:41	594-20-7	
1,1-Dichloropropene	<17.7	ug/kg	54.7	17.7	1	12/07/22 07:00	12/07/22 14:41	563-58-6	
cis-1,3-Dichloropropene	<36.1	ug/kg	274	36.1	1	12/07/22 07:00	12/07/22 14:41	10061-01-5	
trans-1,3-Dichloropropene	<157	ug/kg	274	157	1	12/07/22 07:00	12/07/22 14:41	10061-02-6	
Diisopropyl ether	<13.6	ug/kg	54.7	13.6	1	12/07/22 07:00	12/07/22 14:41	108-20-3	
Ethylbenzene	<13.0	ug/kg	54.7	13.0	1	12/07/22 07:00	12/07/22 14:41	100-41-4	
Hexachloro-1,3-butadiene	<109	ug/kg	274	109	1	12/07/22 07:00	12/07/22 14:41	87-68-3	
Isopropylbenzene (Cumene)	<14.8	ug/kg	54.7	14.8	1	12/07/22 07:00	12/07/22 14:41	98-82-8	
p-Isopropyltoluene	<16.6	ug/kg	54.7	16.6	1	12/07/22 07:00	12/07/22 14:41	99-87-6	
Methylene Chloride	<15.2	ug/kg	54.7	15.2	1	12/07/22 07:00	12/07/22 14:41	75-09-2	
Methyl-tert-butyl ether	<16.1	ug/kg	54.7	16.1	1	12/07/22 07:00	12/07/22 14:41	1634-04-4	
Naphthalene	<17.1	ug/kg	274	17.1	1	12/07/22 07:00	12/07/22 14:41	91-20-3	
n-Propylbenzene	<13.1	ug/kg	54.7	13.1	1	12/07/22 07:00	12/07/22 14:41	103-65-1	
Styrene	<14.0	ug/kg	54.7	14.0	1	12/07/22 07:00	12/07/22 14:41	100-42-5	
1,1,1,2-Tetrachloroethane	<13.1	ug/kg	54.7	13.1	1	12/07/22 07:00	12/07/22 14:41	630-20-6	
1,1,1,2,2-Tetrachloroethane	<19.8	ug/kg	54.7	19.8	1	12/07/22 07:00	12/07/22 14:41	79-34-5	
Tetrachloroethene	<21.2	ug/kg	54.7	21.2	1	12/07/22 07:00	12/07/22 14:41	127-18-4	
Toluene	<13.8	ug/kg	54.7	13.8	1	12/07/22 07:00	12/07/22 14:41	108-88-3	
1,2,3-Trichlorobenzene	<61.0	ug/kg	274	61.0	1	12/07/22 07:00	12/07/22 14:41	87-61-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-17 **Lab ID: 40255397017** Collected: 11/28/22 14:40 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<45.1	ug/kg	274	45.1	1	12/07/22 07:00	12/07/22 14:41	120-82-1	
1,1,1-Trichloroethane	<14.0	ug/kg	54.7	14.0	1	12/07/22 07:00	12/07/22 14:41	71-55-6	
1,1,2-Trichloroethane	<19.9	ug/kg	54.7	19.9	1	12/07/22 07:00	12/07/22 14:41	79-00-5	
Trichloroethene	<20.5	ug/kg	54.7	20.5	1	12/07/22 07:00	12/07/22 14:41	79-01-6	
Trichlorofluoromethane	<15.9	ug/kg	54.7	15.9	1	12/07/22 07:00	12/07/22 14:41	75-69-4	
1,2,3-Trichloropropane	<26.6	ug/kg	54.7	26.6	1	12/07/22 07:00	12/07/22 14:41	96-18-4	
1,2,4-Trimethylbenzene	<16.3	ug/kg	54.7	16.3	1	12/07/22 07:00	12/07/22 14:41	95-63-6	
1,3,5-Trimethylbenzene	<17.6	ug/kg	54.7	17.6	1	12/07/22 07:00	12/07/22 14:41	108-67-8	
Vinyl chloride	<11.1	ug/kg	54.7	11.1	1	12/07/22 07:00	12/07/22 14:41	75-01-4	
m&p-Xylene	<23.1	ug/kg	109	23.1	1	12/07/22 07:00	12/07/22 14:41	179601-23-1	
o-Xylene	<16.4	ug/kg	54.7	16.4	1	12/07/22 07:00	12/07/22 14:41	95-47-6	
Surrogates									
Toluene-d8 (S)	115	%	69-153		1	12/07/22 07:00	12/07/22 14:41	2037-26-5	
4-Bromofluorobenzene (S)	121	%	68-156		1	12/07/22 07:00	12/07/22 14:41	460-00-4	
1,2-Dichlorobenzene-d4 (S)	115	%	71-161		1	12/07/22 07:00	12/07/22 14:41	2199-69-1	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	4.5	%	0.10	0.10	1		12/01/22 15:14		

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

Sample: SB-18 **Lab ID: 40255397018** Collected: 11/28/22 14:50 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3541									
Pace Analytical Services - Green Bay									
PCB-1016 (Aroclor 1016)	<15.9	ug/kg	52.1	15.9	1	12/06/22 15:12	12/09/22 00:05	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.9	ug/kg	52.1	15.9	1	12/06/22 15:12	12/09/22 00:05	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.9	ug/kg	52.1	15.9	1	12/06/22 15:12	12/09/22 00:05	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.9	ug/kg	52.1	15.9	1	12/06/22 15:12	12/09/22 00:05	53469-21-9	
PCB-1248 (Aroclor 1248)	<15.9	ug/kg	52.1	15.9	1	12/06/22 15:12	12/09/22 00:05	12672-29-6	
PCB-1254 (Aroclor 1254)	<15.9	ug/kg	52.1	15.9	1	12/06/22 15:12	12/09/22 00:05	11097-69-1	
PCB-1260 (Aroclor 1260)	<15.9	ug/kg	52.1	15.9	1	12/06/22 15:12	12/09/22 00:05	11096-82-5	
PCB, Total	<15.9	ug/kg	52.1	15.9	1	12/06/22 15:12	12/09/22 00:05	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	76	%	50-99		1	12/06/22 15:12	12/09/22 00:05	877-09-8	
Decachlorobiphenyl (S)	64	%	38-95		1	12/06/22 15:12	12/09/22 00:05	2051-24-3	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	<1.5	mg/kg	2.5	1.5	1	12/02/22 06:42	12/02/22 23:01	7440-38-2	
Barium	15.3	mg/kg	0.50	0.15	1	12/02/22 06:42	12/02/22 23:01	7440-39-3	
Cadmium	<0.13	mg/kg	0.50	0.13	1	12/02/22 06:42	12/02/22 23:01	7440-43-9	
Chromium	9.2	mg/kg	1.0	0.28	1	12/02/22 06:42	12/02/22 23:01	7440-47-3	
Lead	1.5J	mg/kg	2.0	0.60	1	12/02/22 06:42	12/02/22 23:01	7439-92-1	
Selenium	<1.3	mg/kg	4.0	1.3	1	12/02/22 06:42	12/02/22 23:01	7782-49-2	
Silver	<0.31	mg/kg	1.0	0.31	1	12/02/22 06:42	12/02/22 23:01	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.0098	mg/kg	0.034	0.0098	1	12/05/22 09:55	12/06/22 09:45	7439-97-6	
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<2.3	ug/kg	17.4	2.3	1	12/06/22 08:13	12/06/22 17:17	83-32-9	
Acenaphthylene	<2.2	ug/kg	17.4	2.2	1	12/06/22 08:13	12/06/22 17:17	208-96-8	
Anthracene	<2.2	ug/kg	17.4	2.2	1	12/06/22 08:13	12/06/22 17:17	120-12-7	
Benzo(a)anthracene	<2.2	ug/kg	17.4	2.2	1	12/06/22 08:13	12/06/22 17:17	56-55-3	
Benzo(a)pyrene	<2.0	ug/kg	17.4	2.0	1	12/06/22 08:13	12/06/22 17:17	50-32-8	
Benzo(b)fluoranthene	<2.4	ug/kg	17.4	2.4	1	12/06/22 08:13	12/06/22 17:17	205-99-2	
Benzo(g,h,i)perylene	<3.1	ug/kg	17.4	3.1	1	12/06/22 08:13	12/06/22 17:17	191-24-2	
Benzo(k)fluoranthene	<2.2	ug/kg	17.4	2.2	1	12/06/22 08:13	12/06/22 17:17	207-08-9	
Chrysene	<3.3	ug/kg	17.4	3.3	1	12/06/22 08:13	12/06/22 17:17	218-01-9	
Dibenz(a,h)anthracene	<2.4	ug/kg	17.4	2.4	1	12/06/22 08:13	12/06/22 17:17	53-70-3	
Fluoranthene	<2.1	ug/kg	17.4	2.1	1	12/06/22 08:13	12/06/22 17:17	206-44-0	
Fluorene	<2.1	ug/kg	17.4	2.1	1	12/06/22 08:13	12/06/22 17:17	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.6	ug/kg	17.4	3.6	1	12/06/22 08:13	12/06/22 17:17	193-39-5	
1-Methylnaphthalene	<2.5	ug/kg	17.4	2.5	1	12/06/22 08:13	12/06/22 17:17	90-12-0	
2-Methylnaphthalene	<2.5	ug/kg	17.4	2.5	1	12/06/22 08:13	12/06/22 17:17	91-57-6	
Naphthalene	<1.7	ug/kg	17.4	1.7	1	12/06/22 08:13	12/06/22 17:17	91-20-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-18 **Lab ID: 40255397018** Collected: 11/28/22 14:50 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Phenanthrene	<2.0	ug/kg	17.4	2.0	1	12/06/22 08:13	12/06/22 17:17	85-01-8	
Pyrene	<2.6	ug/kg	17.4	2.6	1	12/06/22 08:13	12/06/22 17:17	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	55	%	41-98		1	12/06/22 08:13	12/06/22 17:17	321-60-8	
Terphenyl-d14 (S)	54	%	37-106		1	12/06/22 08:13	12/06/22 17:17	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<12.9	ug/kg	21.7	12.9	1	12/07/22 07:00	12/07/22 15:00	71-43-2	
Bromobenzene	<21.1	ug/kg	54.1	21.1	1	12/07/22 07:00	12/07/22 15:00	108-86-1	
Bromochloromethane	<14.8	ug/kg	54.1	14.8	1	12/07/22 07:00	12/07/22 15:00	74-97-5	
Bromodichloromethane	<12.9	ug/kg	54.1	12.9	1	12/07/22 07:00	12/07/22 15:00	75-27-4	
Bromoform	<238	ug/kg	271	238	1	12/07/22 07:00	12/07/22 15:00	75-25-2	
Bromomethane	<75.9	ug/kg	271	75.9	1	12/07/22 07:00	12/07/22 15:00	74-83-9	
n-Butylbenzene	<24.8	ug/kg	54.1	24.8	1	12/07/22 07:00	12/07/22 15:00	104-51-8	
sec-Butylbenzene	<13.2	ug/kg	54.1	13.2	1	12/07/22 07:00	12/07/22 15:00	135-98-8	
tert-Butylbenzene	<17.0	ug/kg	54.1	17.0	1	12/07/22 07:00	12/07/22 15:00	98-06-6	
Carbon tetrachloride	<11.9	ug/kg	54.1	11.9	1	12/07/22 07:00	12/07/22 15:00	56-23-5	
Chlorobenzene	<6.5	ug/kg	54.1	6.5	1	12/07/22 07:00	12/07/22 15:00	108-90-7	
Chloroethane	<22.8	ug/kg	271	22.8	1	12/07/22 07:00	12/07/22 15:00	75-00-3	
Chloroform	<38.8	ug/kg	271	38.8	1	12/07/22 07:00	12/07/22 15:00	67-66-3	
Chloromethane	<20.6	ug/kg	54.1	20.6	1	12/07/22 07:00	12/07/22 15:00	74-87-3	
2-Chlorotoluene	<17.5	ug/kg	54.1	17.5	1	12/07/22 07:00	12/07/22 15:00	95-49-8	
4-Chlorotoluene	<20.6	ug/kg	54.1	20.6	1	12/07/22 07:00	12/07/22 15:00	106-43-4	
1,2-Dibromo-3-chloropropane	<42.0	ug/kg	271	42.0	1	12/07/22 07:00	12/07/22 15:00	96-12-8	
Dibromochloromethane	<185	ug/kg	271	185	1	12/07/22 07:00	12/07/22 15:00	124-48-1	
1,2-Dibromoethane (EDB)	<14.8	ug/kg	54.1	14.8	1	12/07/22 07:00	12/07/22 15:00	106-93-4	
Dibromomethane	<16.0	ug/kg	54.1	16.0	1	12/07/22 07:00	12/07/22 15:00	74-95-3	
1,2-Dichlorobenzene	<16.8	ug/kg	54.1	16.8	1	12/07/22 07:00	12/07/22 15:00	95-50-1	
1,3-Dichlorobenzene	<14.8	ug/kg	54.1	14.8	1	12/07/22 07:00	12/07/22 15:00	541-73-1	
1,4-Dichlorobenzene	<14.8	ug/kg	54.1	14.8	1	12/07/22 07:00	12/07/22 15:00	106-46-7	
Dichlorodifluoromethane	<23.3	ug/kg	54.1	23.3	1	12/07/22 07:00	12/07/22 15:00	75-71-8	
1,1-Dichloroethane	<13.9	ug/kg	54.1	13.9	1	12/07/22 07:00	12/07/22 15:00	75-34-3	
1,2-Dichloroethane	<12.5	ug/kg	54.1	12.5	1	12/07/22 07:00	12/07/22 15:00	107-06-2	
1,1-Dichloroethene	<18.0	ug/kg	54.1	18.0	1	12/07/22 07:00	12/07/22 15:00	75-35-4	
cis-1,2-Dichloroethene	<11.6	ug/kg	54.1	11.6	1	12/07/22 07:00	12/07/22 15:00	156-59-2	
trans-1,2-Dichloroethene	<11.7	ug/kg	54.1	11.7	1	12/07/22 07:00	12/07/22 15:00	156-60-5	
1,2-Dichloropropane	<12.9	ug/kg	54.1	12.9	1	12/07/22 07:00	12/07/22 15:00	78-87-5	
1,3-Dichloropropane	<11.8	ug/kg	54.1	11.8	1	12/07/22 07:00	12/07/22 15:00	142-28-9	
2,2-Dichloropropane	<14.6	ug/kg	54.1	14.6	1	12/07/22 07:00	12/07/22 15:00	594-20-7	
1,1-Dichloropropene	<17.5	ug/kg	54.1	17.5	1	12/07/22 07:00	12/07/22 15:00	563-58-6	
cis-1,3-Dichloropropene	<35.7	ug/kg	271	35.7	1	12/07/22 07:00	12/07/22 15:00	10061-01-5	
trans-1,3-Dichloropropene	<155	ug/kg	271	155	1	12/07/22 07:00	12/07/22 15:00	10061-02-6	
Diisopropyl ether	<13.4	ug/kg	54.1	13.4	1	12/07/22 07:00	12/07/22 15:00	108-20-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-18 **Lab ID: 40255397018** Collected: 11/28/22 14:50 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Ethylbenzene	<12.9	ug/kg	54.1	12.9	1	12/07/22 07:00	12/07/22 15:00	100-41-4	
Hexachloro-1,3-butadiene	<108	ug/kg	271	108	1	12/07/22 07:00	12/07/22 15:00	87-68-3	
Isopropylbenzene (Cumene)	<14.6	ug/kg	54.1	14.6	1	12/07/22 07:00	12/07/22 15:00	98-82-8	
p-Isopropyltoluene	<16.5	ug/kg	54.1	16.5	1	12/07/22 07:00	12/07/22 15:00	99-87-6	
Methylene Chloride	<15.0	ug/kg	54.1	15.0	1	12/07/22 07:00	12/07/22 15:00	75-09-2	
Methyl-tert-butyl ether	<15.9	ug/kg	54.1	15.9	1	12/07/22 07:00	12/07/22 15:00	1634-04-4	
Naphthalene	<16.9	ug/kg	271	16.9	1	12/07/22 07:00	12/07/22 15:00	91-20-3	
n-Propylbenzene	<13.0	ug/kg	54.1	13.0	1	12/07/22 07:00	12/07/22 15:00	103-65-1	
Styrene	<13.9	ug/kg	54.1	13.9	1	12/07/22 07:00	12/07/22 15:00	100-42-5	
1,1,1,2-Tetrachloroethane	<13.0	ug/kg	54.1	13.0	1	12/07/22 07:00	12/07/22 15:00	630-20-6	
1,1,2,2-Tetrachloroethane	<19.6	ug/kg	54.1	19.6	1	12/07/22 07:00	12/07/22 15:00	79-34-5	
Tetrachloroethene	<21.0	ug/kg	54.1	21.0	1	12/07/22 07:00	12/07/22 15:00	127-18-4	
Toluene	<13.6	ug/kg	54.1	13.6	1	12/07/22 07:00	12/07/22 15:00	108-88-3	
1,2,3-Trichlorobenzene	<60.3	ug/kg	271	60.3	1	12/07/22 07:00	12/07/22 15:00	87-61-6	
1,2,4-Trichlorobenzene	<44.6	ug/kg	271	44.6	1	12/07/22 07:00	12/07/22 15:00	120-82-1	
1,1,1-Trichloroethane	<13.9	ug/kg	54.1	13.9	1	12/07/22 07:00	12/07/22 15:00	71-55-6	
1,1,2-Trichloroethane	<19.7	ug/kg	54.1	19.7	1	12/07/22 07:00	12/07/22 15:00	79-00-5	
Trichloroethene	<20.2	ug/kg	54.1	20.2	1	12/07/22 07:00	12/07/22 15:00	79-01-6	
Trichlorofluoromethane	<15.7	ug/kg	54.1	15.7	1	12/07/22 07:00	12/07/22 15:00	75-69-4	
1,2,3-Trichloropropane	<26.3	ug/kg	54.1	26.3	1	12/07/22 07:00	12/07/22 15:00	96-18-4	
1,2,4-Trimethylbenzene	<16.1	ug/kg	54.1	16.1	1	12/07/22 07:00	12/07/22 15:00	95-63-6	
1,3,5-Trimethylbenzene	<17.4	ug/kg	54.1	17.4	1	12/07/22 07:00	12/07/22 15:00	108-67-8	
Vinyl chloride	<10.9	ug/kg	54.1	10.9	1	12/07/22 07:00	12/07/22 15:00	75-01-4	
m&p-Xylene	<22.8	ug/kg	108	22.8	1	12/07/22 07:00	12/07/22 15:00	179601-23-1	
o-Xylene	<16.2	ug/kg	54.1	16.2	1	12/07/22 07:00	12/07/22 15:00	95-47-6	
Surrogates									
Toluene-d8 (S)	101	%	69-153		1	12/07/22 07:00	12/07/22 15:00	2037-26-5	
4-Bromofluorobenzene (S)	112	%	68-156		1	12/07/22 07:00	12/07/22 15:00	460-00-4	
1,2-Dichlorobenzene-d4 (S)	108	%	71-161		1	12/07/22 07:00	12/07/22 15:00	2199-69-1	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	4.0	%	0.10	0.10	1		12/01/22 15:14		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-19 **Lab ID: 40255397019** Collected: 11/28/22 16:00 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3541									
Pace Analytical Services - Green Bay									
PCB-1016 (Aroclor 1016)	<15.8	ug/kg	52.0	15.8	1	12/06/22 15:12	12/09/22 00:29	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.8	ug/kg	52.0	15.8	1	12/06/22 15:12	12/09/22 00:29	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.8	ug/kg	52.0	15.8	1	12/06/22 15:12	12/09/22 00:29	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.8	ug/kg	52.0	15.8	1	12/06/22 15:12	12/09/22 00:29	53469-21-9	
PCB-1248 (Aroclor 1248)	<15.8	ug/kg	52.0	15.8	1	12/06/22 15:12	12/09/22 00:29	12672-29-6	
PCB-1254 (Aroclor 1254)	<15.8	ug/kg	52.0	15.8	1	12/06/22 15:12	12/09/22 00:29	11097-69-1	
PCB-1260 (Aroclor 1260)	<15.8	ug/kg	52.0	15.8	1	12/06/22 15:12	12/09/22 00:29	11096-82-5	
PCB, Total	<15.8	ug/kg	52.0	15.8	1	12/06/22 15:12	12/09/22 00:29	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	79	%	50-99		1	12/06/22 15:12	12/09/22 00:29	877-09-8	
Decachlorobiphenyl (S)	69	%	38-95		1	12/06/22 15:12	12/09/22 00:29	2051-24-3	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	<1.5	mg/kg	2.5	1.5	1	12/02/22 06:42	12/02/22 23:03	7440-38-2	
Barium	14.2	mg/kg	0.50	0.15	1	12/02/22 06:42	12/02/22 23:03	7440-39-3	
Cadmium	<0.13	mg/kg	0.50	0.13	1	12/02/22 06:42	12/02/22 23:03	7440-43-9	
Chromium	11.1	mg/kg	1.0	0.28	1	12/02/22 06:42	12/02/22 23:03	7440-47-3	
Lead	1.2J	mg/kg	2.0	0.60	1	12/02/22 06:42	12/02/22 23:03	7439-92-1	
Selenium	<1.3	mg/kg	4.0	1.3	1	12/02/22 06:42	12/02/22 23:03	7782-49-2	
Silver	<0.31	mg/kg	1.0	0.31	1	12/02/22 06:42	12/02/22 23:03	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.010	mg/kg	0.036	0.010	1	12/05/22 09:55	12/06/22 09:47	7439-97-6	
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<2.2	ug/kg	17.3	2.2	1	12/06/22 08:13	12/06/22 17:34	83-32-9	
Acenaphthylene	<2.2	ug/kg	17.3	2.2	1	12/06/22 08:13	12/06/22 17:34	208-96-8	
Anthracene	<2.1	ug/kg	17.3	2.1	1	12/06/22 08:13	12/06/22 17:34	120-12-7	
Benzo(a)anthracene	<2.2	ug/kg	17.3	2.2	1	12/06/22 08:13	12/06/22 17:34	56-55-3	
Benzo(a)pyrene	<2.0	ug/kg	17.3	2.0	1	12/06/22 08:13	12/06/22 17:34	50-32-8	
Benzo(b)fluoranthene	<2.4	ug/kg	17.3	2.4	1	12/06/22 08:13	12/06/22 17:34	205-99-2	
Benzo(g,h,i)perylene	<3.0	ug/kg	17.3	3.0	1	12/06/22 08:13	12/06/22 17:34	191-24-2	
Benzo(k)fluoranthene	<2.2	ug/kg	17.3	2.2	1	12/06/22 08:13	12/06/22 17:34	207-08-9	
Chrysene	<3.3	ug/kg	17.3	3.3	1	12/06/22 08:13	12/06/22 17:34	218-01-9	
Dibenz(a,h)anthracene	<2.4	ug/kg	17.3	2.4	1	12/06/22 08:13	12/06/22 17:34	53-70-3	
Fluoranthene	<2.0	ug/kg	17.3	2.0	1	12/06/22 08:13	12/06/22 17:34	206-44-0	
Fluorene	<2.1	ug/kg	17.3	2.1	1	12/06/22 08:13	12/06/22 17:34	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.6	ug/kg	17.3	3.6	1	12/06/22 08:13	12/06/22 17:34	193-39-5	
1-Methylnaphthalene	<2.5	ug/kg	17.3	2.5	1	12/06/22 08:13	12/06/22 17:34	90-12-0	
2-Methylnaphthalene	<2.5	ug/kg	17.3	2.5	1	12/06/22 08:13	12/06/22 17:34	91-57-6	
Naphthalene	<1.7	ug/kg	17.3	1.7	1	12/06/22 08:13	12/06/22 17:34	91-20-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

Sample: SB-19 **Lab ID: 40255397019** Collected: 11/28/22 16:00 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH by SIM									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Phenanthrene	<2.0	ug/kg	17.3	2.0	1	12/06/22 08:13	12/06/22 17:34	85-01-8	
Pyrene	<2.5	ug/kg	17.3	2.5	1	12/06/22 08:13	12/06/22 17:34	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	76	%	41-98		1	12/06/22 08:13	12/06/22 17:34	321-60-8	
Terphenyl-d14 (S)	75	%	37-106		1	12/06/22 08:13	12/06/22 17:34	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<12.8	ug/kg	21.5	12.8	1	12/07/22 07:00	12/07/22 15:20	71-43-2	
Bromobenzene	<21.0	ug/kg	53.8	21.0	1	12/07/22 07:00	12/07/22 15:20	108-86-1	
Bromochloromethane	<14.7	ug/kg	53.8	14.7	1	12/07/22 07:00	12/07/22 15:20	74-97-5	
Bromodichloromethane	<12.8	ug/kg	53.8	12.8	1	12/07/22 07:00	12/07/22 15:20	75-27-4	
Bromoform	<237	ug/kg	269	237	1	12/07/22 07:00	12/07/22 15:20	75-25-2	
Bromomethane	<75.4	ug/kg	269	75.4	1	12/07/22 07:00	12/07/22 15:20	74-83-9	
n-Butylbenzene	<24.6	ug/kg	53.8	24.6	1	12/07/22 07:00	12/07/22 15:20	104-51-8	
sec-Butylbenzene	<13.1	ug/kg	53.8	13.1	1	12/07/22 07:00	12/07/22 15:20	135-98-8	
tert-Butylbenzene	<16.9	ug/kg	53.8	16.9	1	12/07/22 07:00	12/07/22 15:20	98-06-6	
Carbon tetrachloride	<11.8	ug/kg	53.8	11.8	1	12/07/22 07:00	12/07/22 15:20	56-23-5	
Chlorobenzene	<6.4	ug/kg	53.8	6.4	1	12/07/22 07:00	12/07/22 15:20	108-90-7	
Chloroethane	<22.7	ug/kg	269	22.7	1	12/07/22 07:00	12/07/22 15:20	75-00-3	
Chloroform	<38.5	ug/kg	269	38.5	1	12/07/22 07:00	12/07/22 15:20	67-66-3	
Chloromethane	<20.4	ug/kg	53.8	20.4	1	12/07/22 07:00	12/07/22 15:20	74-87-3	
2-Chlorotoluene	<17.4	ug/kg	53.8	17.4	1	12/07/22 07:00	12/07/22 15:20	95-49-8	
4-Chlorotoluene	<20.4	ug/kg	53.8	20.4	1	12/07/22 07:00	12/07/22 15:20	106-43-4	
1,2-Dibromo-3-chloropropane	<41.8	ug/kg	269	41.8	1	12/07/22 07:00	12/07/22 15:20	96-12-8	
Dibromochloromethane	<184	ug/kg	269	184	1	12/07/22 07:00	12/07/22 15:20	124-48-1	
1,2-Dibromoethane (EDB)	<14.7	ug/kg	53.8	14.7	1	12/07/22 07:00	12/07/22 15:20	106-93-4	
Dibromomethane	<15.9	ug/kg	53.8	15.9	1	12/07/22 07:00	12/07/22 15:20	74-95-3	
1,2-Dichlorobenzene	<16.7	ug/kg	53.8	16.7	1	12/07/22 07:00	12/07/22 15:20	95-50-1	
1,3-Dichlorobenzene	<14.7	ug/kg	53.8	14.7	1	12/07/22 07:00	12/07/22 15:20	541-73-1	
1,4-Dichlorobenzene	<14.7	ug/kg	53.8	14.7	1	12/07/22 07:00	12/07/22 15:20	106-46-7	
Dichlorodifluoromethane	<23.1	ug/kg	53.8	23.1	1	12/07/22 07:00	12/07/22 15:20	75-71-8	
1,1-Dichloroethane	<13.8	ug/kg	53.8	13.8	1	12/07/22 07:00	12/07/22 15:20	75-34-3	
1,2-Dichloroethane	<12.4	ug/kg	53.8	12.4	1	12/07/22 07:00	12/07/22 15:20	107-06-2	
1,1-Dichloroethene	<17.9	ug/kg	53.8	17.9	1	12/07/22 07:00	12/07/22 15:20	75-35-4	
cis-1,2-Dichloroethene	<11.5	ug/kg	53.8	11.5	1	12/07/22 07:00	12/07/22 15:20	156-59-2	
trans-1,2-Dichloroethene	<11.6	ug/kg	53.8	11.6	1	12/07/22 07:00	12/07/22 15:20	156-60-5	
1,2-Dichloropropane	<12.8	ug/kg	53.8	12.8	1	12/07/22 07:00	12/07/22 15:20	78-87-5	
1,3-Dichloropropane	<11.7	ug/kg	53.8	11.7	1	12/07/22 07:00	12/07/22 15:20	142-28-9	
2,2-Dichloropropane	<14.5	ug/kg	53.8	14.5	1	12/07/22 07:00	12/07/22 15:20	594-20-7	
1,1-Dichloropropene	<17.4	ug/kg	53.8	17.4	1	12/07/22 07:00	12/07/22 15:20	563-58-6	
cis-1,3-Dichloropropene	<35.5	ug/kg	269	35.5	1	12/07/22 07:00	12/07/22 15:20	10061-01-5	
trans-1,3-Dichloropropene	<154	ug/kg	269	154	1	12/07/22 07:00	12/07/22 15:20	10061-02-6	
Diisopropyl ether	<13.3	ug/kg	53.8	13.3	1	12/07/22 07:00	12/07/22 15:20	108-20-3	

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

Sample: SB-19 **Lab ID: 40255397019** Collected: 11/28/22 16:00 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Ethylbenzene	<12.8	ug/kg	53.8	12.8	1	12/07/22 07:00	12/07/22 15:20	100-41-4	
Hexachloro-1,3-butadiene	<107	ug/kg	269	107	1	12/07/22 07:00	12/07/22 15:20	87-68-3	
Isopropylbenzene (Cumene)	<14.5	ug/kg	53.8	14.5	1	12/07/22 07:00	12/07/22 15:20	98-82-8	
p-Isopropyltoluene	<16.4	ug/kg	53.8	16.4	1	12/07/22 07:00	12/07/22 15:20	99-87-6	
Methylene Chloride	<15.0	ug/kg	53.8	15.0	1	12/07/22 07:00	12/07/22 15:20	75-09-2	
Methyl-tert-butyl ether	<15.8	ug/kg	53.8	15.8	1	12/07/22 07:00	12/07/22 15:20	1634-04-4	
Naphthalene	<16.8	ug/kg	269	16.8	1	12/07/22 07:00	12/07/22 15:20	91-20-3	
n-Propylbenzene	<12.9	ug/kg	53.8	12.9	1	12/07/22 07:00	12/07/22 15:20	103-65-1	
Styrene	<13.8	ug/kg	53.8	13.8	1	12/07/22 07:00	12/07/22 15:20	100-42-5	
1,1,1,2-Tetrachloroethane	<12.9	ug/kg	53.8	12.9	1	12/07/22 07:00	12/07/22 15:20	630-20-6	
1,1,2,2-Tetrachloroethane	<19.5	ug/kg	53.8	19.5	1	12/07/22 07:00	12/07/22 15:20	79-34-5	
Tetrachloroethene	<20.9	ug/kg	53.8	20.9	1	12/07/22 07:00	12/07/22 15:20	127-18-4	
Toluene	<13.6	ug/kg	53.8	13.6	1	12/07/22 07:00	12/07/22 15:20	108-88-3	
1,2,3-Trichlorobenzene	<60.0	ug/kg	269	60.0	1	12/07/22 07:00	12/07/22 15:20	87-61-6	
1,2,4-Trichlorobenzene	<44.3	ug/kg	269	44.3	1	12/07/22 07:00	12/07/22 15:20	120-82-1	
1,1,1-Trichloroethane	<13.8	ug/kg	53.8	13.8	1	12/07/22 07:00	12/07/22 15:20	71-55-6	
1,1,2-Trichloroethane	<19.6	ug/kg	53.8	19.6	1	12/07/22 07:00	12/07/22 15:20	79-00-5	
Trichloroethene	<20.1	ug/kg	53.8	20.1	1	12/07/22 07:00	12/07/22 15:20	79-01-6	
Trichlorofluoromethane	<15.6	ug/kg	53.8	15.6	1	12/07/22 07:00	12/07/22 15:20	75-69-4	
1,2,3-Trichloropropane	<26.2	ug/kg	53.8	26.2	1	12/07/22 07:00	12/07/22 15:20	96-18-4	
1,2,4-Trimethylbenzene	<16.0	ug/kg	53.8	16.0	1	12/07/22 07:00	12/07/22 15:20	95-63-6	
1,3,5-Trimethylbenzene	<17.3	ug/kg	53.8	17.3	1	12/07/22 07:00	12/07/22 15:20	108-67-8	
Vinyl chloride	<10.9	ug/kg	53.8	10.9	1	12/07/22 07:00	12/07/22 15:20	75-01-4	
m&p-Xylene	<22.7	ug/kg	108	22.7	1	12/07/22 07:00	12/07/22 15:20	179601-23-1	
o-Xylene	<16.1	ug/kg	53.8	16.1	1	12/07/22 07:00	12/07/22 15:20	95-47-6	
Surrogates									
Toluene-d8 (S)	109	%	69-153		1	12/07/22 07:00	12/07/22 15:20	2037-26-5	
4-Bromofluorobenzene (S)	116	%	68-156		1	12/07/22 07:00	12/07/22 15:20	460-00-4	
1,2-Dichlorobenzene-d4 (S)	110	%	71-161		1	12/07/22 07:00	12/07/22 15:20	2199-69-1	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	3.7	%	0.10	0.10	1		12/01/22 15:14		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: SB-23 **Lab ID: 40255397020** Collected: 11/29/22 10:30 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	2.8	mg/kg	2.5	1.5	1	12/02/22 06:42	12/02/22 23:06	7440-38-2	
Barium	41.7	mg/kg	0.50	0.15	1	12/02/22 06:42	12/02/22 23:06	7440-39-3	
Cadmium	<0.13	mg/kg	0.50	0.13	1	12/02/22 06:42	12/02/22 23:06	7440-43-9	
Chromium	16.8	mg/kg	1.0	0.28	1	12/02/22 06:42	12/02/22 23:06	7440-47-3	
Lead	6.4	mg/kg	2.0	0.60	1	12/02/22 06:42	12/02/22 23:06	7439-92-1	
Selenium	<1.3	mg/kg	4.0	1.3	1	12/02/22 06:42	12/02/22 23:06	7782-49-2	
Silver	<0.31	mg/kg	1.0	0.31	1	12/02/22 06:42	12/02/22 23:06	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.010	mg/kg	0.035	0.010	1	12/05/22 09:55	12/06/22 09:49	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	4.2	%	0.10	0.10	1		12/01/22 15:14		

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: DUPLICATE NO. 1 **Lab ID: 40255397021** Collected: 11/28/22 00:00 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3541									
Pace Analytical Services - Green Bay									
PCB-1016 (Aroclor 1016)	<17.2	ug/kg	56.5	17.2	1	12/06/22 15:12	12/09/22 00:53	12674-11-2	
PCB-1221 (Aroclor 1221)	<17.2	ug/kg	56.5	17.2	1	12/06/22 15:12	12/09/22 00:53	11104-28-2	
PCB-1232 (Aroclor 1232)	<17.2	ug/kg	56.5	17.2	1	12/06/22 15:12	12/09/22 00:53	11141-16-5	
PCB-1242 (Aroclor 1242)	<17.2	ug/kg	56.5	17.2	1	12/06/22 15:12	12/09/22 00:53	53469-21-9	
PCB-1248 (Aroclor 1248)	<17.2	ug/kg	56.5	17.2	1	12/06/22 15:12	12/09/22 00:53	12672-29-6	
PCB-1254 (Aroclor 1254)	<17.2	ug/kg	56.5	17.2	1	12/06/22 15:12	12/09/22 00:53	11097-69-1	
PCB-1260 (Aroclor 1260)	<17.2	ug/kg	56.5	17.2	1	12/06/22 15:12	12/09/22 00:53	11096-82-5	
PCB, Total	<17.2	ug/kg	56.5	17.2	1	12/06/22 15:12	12/09/22 00:53	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	72	%	50-99		1	12/06/22 15:12	12/09/22 00:53	877-09-8	
Decachlorobiphenyl (S)	64	%	38-95		1	12/06/22 15:12	12/09/22 00:53	2051-24-3	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	2.8	mg/kg	2.8	1.6	1	12/02/22 06:41	12/02/22 21:30	7440-38-2	
Barium	99.6	mg/kg	0.56	0.17	1	12/02/22 06:41	12/02/22 21:30	7440-39-3	
Cadmium	<0.15	mg/kg	0.56	0.15	1	12/02/22 06:41	12/02/22 21:30	7440-43-9	
Chromium	11.6	mg/kg	1.1	0.31	1	12/02/22 06:41	12/02/22 21:30	7440-47-3	
Lead	8.4	mg/kg	2.2	0.67	1	12/02/22 06:41	12/02/22 21:30	7439-92-1	
Selenium	<1.5	mg/kg	4.4	1.5	1	12/02/22 06:41	12/02/22 21:30	7782-49-2	
Silver	<0.34	mg/kg	1.1	0.34	1	12/02/22 06:41	12/02/22 21:30	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	0.039	mg/kg	0.038	0.011	1	12/05/22 08:06	12/06/22 07:30	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	11.3	%	0.10	0.10	1		12/01/22 15:50		

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

Sample: TRIP BLANK **Lab ID: 40255397022** Collected: 11/28/22 00:00 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<11.9	ug/kg	20.0	11.9	1	12/07/22 07:00	12/07/22 12:05	71-43-2	
Bromobenzene	<19.5	ug/kg	50.0	19.5	1	12/07/22 07:00	12/07/22 12:05	108-86-1	
Bromochloromethane	<13.7	ug/kg	50.0	13.7	1	12/07/22 07:00	12/07/22 12:05	74-97-5	
Bromodichloromethane	<11.9	ug/kg	50.0	11.9	1	12/07/22 07:00	12/07/22 12:05	75-27-4	
Bromoform	<220	ug/kg	250	220	1	12/07/22 07:00	12/07/22 12:05	75-25-2	
Bromomethane	<70.1	ug/kg	250	70.1	1	12/07/22 07:00	12/07/22 12:05	74-83-9	
n-Butylbenzene	<22.9	ug/kg	50.0	22.9	1	12/07/22 07:00	12/07/22 12:05	104-51-8	
sec-Butylbenzene	<12.2	ug/kg	50.0	12.2	1	12/07/22 07:00	12/07/22 12:05	135-98-8	
tert-Butylbenzene	<15.7	ug/kg	50.0	15.7	1	12/07/22 07:00	12/07/22 12:05	98-06-6	
Carbon tetrachloride	<11.0	ug/kg	50.0	11.0	1	12/07/22 07:00	12/07/22 12:05	56-23-5	
Chlorobenzene	<6.0	ug/kg	50.0	6.0	1	12/07/22 07:00	12/07/22 12:05	108-90-7	
Chloroethane	<21.1	ug/kg	250	21.1	1	12/07/22 07:00	12/07/22 12:05	75-00-3	
Chloroform	<35.8	ug/kg	250	35.8	1	12/07/22 07:00	12/07/22 12:05	67-66-3	
Chloromethane	<19.0	ug/kg	50.0	19.0	1	12/07/22 07:00	12/07/22 12:05	74-87-3	
2-Chlorotoluene	<16.2	ug/kg	50.0	16.2	1	12/07/22 07:00	12/07/22 12:05	95-49-8	
4-Chlorotoluene	<19.0	ug/kg	50.0	19.0	1	12/07/22 07:00	12/07/22 12:05	106-43-4	
1,2-Dibromo-3-chloropropane	<38.8	ug/kg	250	38.8	1	12/07/22 07:00	12/07/22 12:05	96-12-8	
Dibromochloromethane	<171	ug/kg	250	171	1	12/07/22 07:00	12/07/22 12:05	124-48-1	
1,2-Dibromoethane (EDB)	<13.7	ug/kg	50.0	13.7	1	12/07/22 07:00	12/07/22 12:05	106-93-4	
Dibromomethane	<14.8	ug/kg	50.0	14.8	1	12/07/22 07:00	12/07/22 12:05	74-95-3	
1,2-Dichlorobenzene	<15.5	ug/kg	50.0	15.5	1	12/07/22 07:00	12/07/22 12:05	95-50-1	
1,3-Dichlorobenzene	<13.7	ug/kg	50.0	13.7	1	12/07/22 07:00	12/07/22 12:05	541-73-1	
1,4-Dichlorobenzene	<13.7	ug/kg	50.0	13.7	1	12/07/22 07:00	12/07/22 12:05	106-46-7	
Dichlorodifluoromethane	<21.5	ug/kg	50.0	21.5	1	12/07/22 07:00	12/07/22 12:05	75-71-8	
1,1-Dichloroethane	<12.8	ug/kg	50.0	12.8	1	12/07/22 07:00	12/07/22 12:05	75-34-3	
1,2-Dichloroethane	<11.5	ug/kg	50.0	11.5	1	12/07/22 07:00	12/07/22 12:05	107-06-2	
1,1-Dichloroethene	<16.6	ug/kg	50.0	16.6	1	12/07/22 07:00	12/07/22 12:05	75-35-4	
cis-1,2-Dichloroethene	<10.7	ug/kg	50.0	10.7	1	12/07/22 07:00	12/07/22 12:05	156-59-2	
trans-1,2-Dichloroethene	<10.8	ug/kg	50.0	10.8	1	12/07/22 07:00	12/07/22 12:05	156-60-5	
1,2-Dichloropropane	<11.9	ug/kg	50.0	11.9	1	12/07/22 07:00	12/07/22 12:05	78-87-5	
1,3-Dichloropropane	<10.9	ug/kg	50.0	10.9	1	12/07/22 07:00	12/07/22 12:05	142-28-9	
2,2-Dichloropropane	<13.5	ug/kg	50.0	13.5	1	12/07/22 07:00	12/07/22 12:05	594-20-7	
1,1-Dichloropropene	<16.2	ug/kg	50.0	16.2	1	12/07/22 07:00	12/07/22 12:05	563-58-6	
cis-1,3-Dichloropropene	<33.0	ug/kg	250	33.0	1	12/07/22 07:00	12/07/22 12:05	10061-01-5	
trans-1,3-Dichloropropene	<143	ug/kg	250	143	1	12/07/22 07:00	12/07/22 12:05	10061-02-6	
Diisopropyl ether	<12.4	ug/kg	50.0	12.4	1	12/07/22 07:00	12/07/22 12:05	108-20-3	
Ethylbenzene	<11.9	ug/kg	50.0	11.9	1	12/07/22 07:00	12/07/22 12:05	100-41-4	
Hexachloro-1,3-butadiene	<99.4	ug/kg	250	99.4	1	12/07/22 07:00	12/07/22 12:05	87-68-3	
Isopropylbenzene (Cumene)	<13.5	ug/kg	50.0	13.5	1	12/07/22 07:00	12/07/22 12:05	98-82-8	
p-Isopropyltoluene	<15.2	ug/kg	50.0	15.2	1	12/07/22 07:00	12/07/22 12:05	99-87-6	
Methylene Chloride	<13.9	ug/kg	50.0	13.9	1	12/07/22 07:00	12/07/22 12:05	75-09-2	
Methyl-tert-butyl ether	<14.7	ug/kg	50.0	14.7	1	12/07/22 07:00	12/07/22 12:05	1634-04-4	
Naphthalene	<15.6	ug/kg	250	15.6	1	12/07/22 07:00	12/07/22 12:05	91-20-3	
n-Propylbenzene	<12.0	ug/kg	50.0	12.0	1	12/07/22 07:00	12/07/22 12:05	103-65-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Sample: TRIP BLANK **Lab ID: 40255397022** Collected: 11/28/22 00:00 Received: 12/01/22 09:20 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Styrene	<12.8	ug/kg	50.0	12.8	1	12/07/22 07:00	12/07/22 12:05	100-42-5	
1,1,1,2-Tetrachloroethane	<12.0	ug/kg	50.0	12.0	1	12/07/22 07:00	12/07/22 12:05	630-20-6	
1,1,2,2-Tetrachloroethane	<18.1	ug/kg	50.0	18.1	1	12/07/22 07:00	12/07/22 12:05	79-34-5	
Tetrachloroethene	<19.4	ug/kg	50.0	19.4	1	12/07/22 07:00	12/07/22 12:05	127-18-4	
Toluene	<12.6	ug/kg	50.0	12.6	1	12/07/22 07:00	12/07/22 12:05	108-88-3	
1,2,3-Trichlorobenzene	<55.7	ug/kg	250	55.7	1	12/07/22 07:00	12/07/22 12:05	87-61-6	
1,2,4-Trichlorobenzene	<41.2	ug/kg	250	41.2	1	12/07/22 07:00	12/07/22 12:05	120-82-1	
1,1,1-Trichloroethane	<12.8	ug/kg	50.0	12.8	1	12/07/22 07:00	12/07/22 12:05	71-55-6	
1,1,2-Trichloroethane	<18.2	ug/kg	50.0	18.2	1	12/07/22 07:00	12/07/22 12:05	79-00-5	
Trichloroethene	<18.7	ug/kg	50.0	18.7	1	12/07/22 07:00	12/07/22 12:05	79-01-6	
Trichlorofluoromethane	<14.5	ug/kg	50.0	14.5	1	12/07/22 07:00	12/07/22 12:05	75-69-4	
1,2,3-Trichloropropane	<24.3	ug/kg	50.0	24.3	1	12/07/22 07:00	12/07/22 12:05	96-18-4	
1,2,4-Trimethylbenzene	<14.9	ug/kg	50.0	14.9	1	12/07/22 07:00	12/07/22 12:05	95-63-6	
1,3,5-Trimethylbenzene	<16.1	ug/kg	50.0	16.1	1	12/07/22 07:00	12/07/22 12:05	108-67-8	
Vinyl chloride	<10.1	ug/kg	50.0	10.1	1	12/07/22 07:00	12/07/22 12:05	75-01-4	
m&p-Xylene	<21.1	ug/kg	100	21.1	1	12/07/22 07:00	12/07/22 12:05	179601-23-1	
o-Xylene	<15.0	ug/kg	50.0	15.0	1	12/07/22 07:00	12/07/22 12:05	95-47-6	
Surrogates									
Toluene-d8 (S)	96	%	69-153		1	12/07/22 07:00	12/07/22 12:05	2037-26-5	
4-Bromofluorobenzene (S)	95	%	68-156		1	12/07/22 07:00	12/07/22 12:05	460-00-4	
1,2-Dichlorobenzene-d4 (S)	94	%	71-161		1	12/07/22 07:00	12/07/22 12:05	2199-69-1	

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QUALITY CONTROL DATA

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

QC Batch: 432885	Analysis Method: EPA 7471
QC Batch Method: EPA 7471	Analysis Description: 7471 Mercury
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40255397021

METHOD BLANK: 2492233 Matrix: Solid

Associated Lab Samples: 40255397021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.010	0.035	12/06/22 06:51	

LABORATORY CONTROL SAMPLE: 2492234

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.83	0.84	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2492235 2492236

Parameter	Units	2492235		2492236		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40255439001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Mercury	mg/kg	<0.011	0.91	0.91	0.89	0.92	98	100	85-115	3	20	

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: 3M MENOMINIE CESA
Pace Project No.: 40255397

QC Batch:	432764	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3050B	Analysis Description:	6010D MET
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40255397001, 40255397002, 40255397003, 40255397004, 40255397005, 40255397006, 40255397007, 40255397008, 40255397009, 40255397010, 40255397011, 40255397012, 40255397013, 40255397014, 40255397015, 40255397016, 40255397017, 40255397018, 40255397019, 40255397020

METHOD BLANK: 2491313 Matrix: Solid
Associated Lab Samples: 40255397001, 40255397002, 40255397003, 40255397004, 40255397005, 40255397006, 40255397007, 40255397008, 40255397009, 40255397010, 40255397011, 40255397012, 40255397013, 40255397014, 40255397015, 40255397016, 40255397017, 40255397018, 40255397019, 40255397020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.5	2.5	12/02/22 21:53	
Barium	mg/kg	<0.15	0.50	12/02/22 21:53	
Cadmium	mg/kg	<0.13	0.50	12/02/22 21:53	
Chromium	mg/kg	<0.28	1.0	12/02/22 21:53	
Lead	mg/kg	<0.60	2.0	12/02/22 21:53	
Selenium	mg/kg	<1.3	4.0	12/02/22 21:53	
Silver	mg/kg	<0.31	1.0	12/02/22 21:53	

LABORATORY CONTROL SAMPLE: 2491314

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	25	25.5	102	80-120	
Barium	mg/kg	25	27.0	108	80-120	
Cadmium	mg/kg	25	26.8	107	80-120	
Chromium	mg/kg	25	27.9	111	80-120	
Lead	mg/kg	25	28.4	114	80-120	
Selenium	mg/kg	25	26.3	105	80-120	
Silver	mg/kg	12.5	13.1	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2491315 2491316

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40255397001 Result	Spike Conc.	Spike Conc.	MS Result							
Arsenic	mg/kg	1.6J	26.8	26.8	28.8	29.2	101	103	75-125	2	20	
Barium	mg/kg	31.2	26.8	26.8	63.6	68.0	121	137	75-125	7	20	M0
Cadmium	mg/kg	<0.14	26.8	26.8	27.8	27.9	103	104	75-125	0	20	
Chromium	mg/kg	9.2	26.8	26.8	38.9	41.9	111	122	75-125	7	20	
Lead	mg/kg	2.8	26.8	26.8	31.5	32.4	107	111	75-125	3	20	
Selenium	mg/kg	<1.4	26.8	26.8	26.9	26.4	100	99	75-125	2	20	
Silver	mg/kg	<0.33	13.5	13.3	13.6	13.5	101	101	75-125	1	20	

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QUALITY CONTROL DATA

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

QC Batch: 432767 Analysis Method: EPA 6010D
QC Batch Method: EPA 3050B Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40255397021

METHOD BLANK: 2491329 Matrix: Solid
Associated Lab Samples: 40255397021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.5	2.5	12/02/22 21:15	
Barium	mg/kg	<0.15	0.50	12/02/22 21:15	
Cadmium	mg/kg	<0.13	0.50	12/02/22 21:15	
Chromium	mg/kg	<0.28	1.0	12/02/22 21:15	
Lead	mg/kg	<0.60	2.0	12/02/22 21:15	
Selenium	mg/kg	<1.3	4.0	12/02/22 21:15	
Silver	mg/kg	<0.31	1.0	12/02/22 21:15	

LABORATORY CONTROL SAMPLE: 2491330

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	25	26.6	106	80-120	
Barium	mg/kg	25	27.2	109	80-120	
Cadmium	mg/kg	25	27.1	108	80-120	
Chromium	mg/kg	25	27.8	111	80-120	
Lead	mg/kg	25	28.6	114	80-120	
Selenium	mg/kg	25	26.4	106	80-120	
Silver	mg/kg	12.5	13.1	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2491331 2491332

Parameter	Units	40255396003		2491331		2491332		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Arsenic	mg/kg	<4.0	68.7	68.7	72.5	70.7	104	102	75-125	2	20		
Barium	mg/kg	127	68.7	68.7	193	197	97	102	75-125	2	20		
Cadmium	mg/kg	0.43J	68.7	68.7	74.9	73.6	108	106	75-125	2	20		
Chromium	mg/kg	26.1	68.7	68.7	105	107	114	118	75-125	2	20		
Lead	mg/kg	6.5	68.7	68.7	95.7	82.3	130	110	75-125	15	20	M0	
Selenium	mg/kg	<3.6	68.7	68.7	71.7	71.9	104	105	75-125	0	20		
Silver	mg/kg	<0.84	34.5	34.5	35.9	36.0	104	105	75-125	0	20		

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QUALITY CONTROL DATA

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

METHOD BLANK: 2493200

Matrix: Solid

Associated Lab Samples: 40255397001, 40255397012, 40255397013, 40255397014, 40255397015, 40255397016, 40255397017, 40255397018, 40255397019, 40255397022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	<12.4	50.0	12/07/22 09:25	
Ethylbenzene	ug/kg	<11.9	50.0	12/07/22 09:25	
Hexachloro-1,3-butadiene	ug/kg	<99.4	250	12/07/22 09:25	
Isopropylbenzene (Cumene)	ug/kg	<13.5	50.0	12/07/22 09:25	
m&p-Xylene	ug/kg	<21.1	100	12/07/22 09:25	
Methyl-tert-butyl ether	ug/kg	<14.7	50.0	12/07/22 09:25	
Methylene Chloride	ug/kg	<13.9	50.0	12/07/22 09:25	
n-Butylbenzene	ug/kg	<22.9	50.0	12/07/22 09:25	
n-Propylbenzene	ug/kg	<12.0	50.0	12/07/22 09:25	
Naphthalene	ug/kg	<15.6	250	12/07/22 09:25	
o-Xylene	ug/kg	<15.0	50.0	12/07/22 09:25	
p-Isopropyltoluene	ug/kg	<15.2	50.0	12/07/22 09:25	
sec-Butylbenzene	ug/kg	<12.2	50.0	12/07/22 09:25	
Styrene	ug/kg	<12.8	50.0	12/07/22 09:25	
tert-Butylbenzene	ug/kg	<15.7	50.0	12/07/22 09:25	
Tetrachloroethene	ug/kg	<19.4	50.0	12/07/22 09:25	
Toluene	ug/kg	<12.6	50.0	12/07/22 09:25	
trans-1,2-Dichloroethene	ug/kg	<10.8	50.0	12/07/22 09:25	
trans-1,3-Dichloropropene	ug/kg	<143	250	12/07/22 09:25	
Trichloroethene	ug/kg	<18.7	50.0	12/07/22 09:25	
Trichlorofluoromethane	ug/kg	<14.5	50.0	12/07/22 09:25	
Vinyl chloride	ug/kg	<10.1	50.0	12/07/22 09:25	
1,2-Dichlorobenzene-d4 (S)	%	101	71-161	12/07/22 09:25	
4-Bromofluorobenzene (S)	%	105	68-156	12/07/22 09:25	
Toluene-d8 (S)	%	99	69-153	12/07/22 09:25	

LABORATORY CONTROL SAMPLE: 2493201

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2360	94	70-130	
1,1,1,2-Tetrachloroethane	ug/kg	2500	2670	107	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2520	101	70-130	
1,1-Dichloroethane	ug/kg	2500	2660	106	70-130	
1,1-Dichloroethene	ug/kg	2500	2530	101	77-120	
1,2,4-Trichlorobenzene	ug/kg	2500	2430	97	67-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2300	92	70-130	
1,2-Dibromoethane (EDB)	ug/kg	2500	2450	98	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2370	95	70-130	
1,2-Dichloroethane	ug/kg	2500	2680	107	70-130	
1,2-Dichloropropane	ug/kg	2500	2780	111	80-123	
1,3-Dichlorobenzene	ug/kg	2500	2440	97	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2340	94	70-130	
Benzene	ug/kg	2500	2550	102	70-130	

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QUALITY CONTROL DATA

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

LABORATORY CONTROL SAMPLE: 2493201

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/kg	2500	2570	103	70-130	
Bromoform	ug/kg	2500	2390	95	60-130	
Bromomethane	ug/kg	2500	2770	111	45-153	
Carbon tetrachloride	ug/kg	2500	2460	98	70-130	
Chlorobenzene	ug/kg	2500	2540	101	70-130	
Chloroethane	ug/kg	2500	2840	114	55-160	
Chloroform	ug/kg	2500	2610	104	80-120	
Chloromethane	ug/kg	2500	2390	95	47-130	
cis-1,2-Dichloroethene	ug/kg	2500	2690	107	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2640	106	70-130	
Dibromochloromethane	ug/kg	2500	2350	94	70-130	
Dichlorodifluoromethane	ug/kg	2500	1570	63	16-83	
Ethylbenzene	ug/kg	2500	2490	100	80-120	
Isopropylbenzene (Cumene)	ug/kg	2500	2440	98	70-130	
m&p-Xylene	ug/kg	5000	4910	98	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2630	105	65-130	
Methylene Chloride	ug/kg	2500	2510	101	70-130	
o-Xylene	ug/kg	2500	2440	97	70-130	
Styrene	ug/kg	2500	2500	100	70-130	
Tetrachloroethene	ug/kg	2500	2420	97	70-130	
Toluene	ug/kg	2500	2450	98	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2640	105	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2440	98	70-130	
Trichloroethene	ug/kg	2500	2630	105	70-130	
Trichlorofluoromethane	ug/kg	2500	2510	100	70-130	
Vinyl chloride	ug/kg	2500	2250	90	59-114	
1,2-Dichlorobenzene-d4 (S)	%			101	71-161	
4-Bromofluorobenzene (S)	%			104	68-156	
Toluene-d8 (S)	%			98	69-153	

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QUALITY CONTROL DATA

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

METHOD BLANK: 2493215 Matrix: Solid
Associated Lab Samples: 40255397002, 40255397003, 40255397004, 40255397005, 40255397006, 40255397007, 40255397008, 40255397009, 40255397010, 40255397011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	<12.4	50.0	12/07/22 10:35	
Ethylbenzene	ug/kg	<11.9	50.0	12/07/22 10:35	
Hexachloro-1,3-butadiene	ug/kg	<99.4	250	12/07/22 10:35	
Isopropylbenzene (Cumene)	ug/kg	<13.5	50.0	12/07/22 10:35	
m&p-Xylene	ug/kg	<21.1	100	12/07/22 10:35	
Methyl-tert-butyl ether	ug/kg	<14.7	50.0	12/07/22 10:35	
Methylene Chloride	ug/kg	<13.9	50.0	12/07/22 10:35	
n-Butylbenzene	ug/kg	<22.9	50.0	12/07/22 10:35	
n-Propylbenzene	ug/kg	<12.0	50.0	12/07/22 10:35	
Naphthalene	ug/kg	<15.6	250	12/07/22 10:35	
o-Xylene	ug/kg	<15.0	50.0	12/07/22 10:35	
p-Isopropyltoluene	ug/kg	<15.2	50.0	12/07/22 10:35	
sec-Butylbenzene	ug/kg	<12.2	50.0	12/07/22 10:35	
Styrene	ug/kg	<12.8	50.0	12/07/22 10:35	
tert-Butylbenzene	ug/kg	<15.7	50.0	12/07/22 10:35	
Tetrachloroethene	ug/kg	<19.4	50.0	12/07/22 10:35	
Toluene	ug/kg	<12.6	50.0	12/07/22 10:35	
trans-1,2-Dichloroethene	ug/kg	<10.8	50.0	12/07/22 10:35	
trans-1,3-Dichloropropene	ug/kg	<143	250	12/07/22 10:35	
Trichloroethene	ug/kg	<18.7	50.0	12/07/22 10:35	
Trichlorofluoromethane	ug/kg	<14.5	50.0	12/07/22 10:35	
Vinyl chloride	ug/kg	<10.1	50.0	12/07/22 10:35	
1,2-Dichlorobenzene-d4 (S)	%	100	71-161	12/07/22 10:35	
4-Bromofluorobenzene (S)	%	91	68-156	12/07/22 10:35	
Toluene-d8 (S)	%	95	69-153	12/07/22 10:35	

LABORATORY CONTROL SAMPLE: 2493216

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2530	101	70-130	
1,1,1,2-Tetrachloroethane	ug/kg	2500	2460	99	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2350	94	70-130	
1,1-Dichloroethane	ug/kg	2500	2540	102	70-130	
1,1-Dichloroethene	ug/kg	2500	2620	105	77-120	
1,2,4-Trichlorobenzene	ug/kg	2500	2410	96	67-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2240	89	70-130	
1,2-Dibromoethane (EDB)	ug/kg	2500	2410	96	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2450	98	70-130	
1,2-Dichloroethane	ug/kg	2500	2640	105	70-130	
1,2-Dichloropropane	ug/kg	2500	2520	101	80-123	
1,3-Dichlorobenzene	ug/kg	2500	2440	98	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2380	95	70-130	
Benzene	ug/kg	2500	2510	100	70-130	

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QUALITY CONTROL DATA

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

LABORATORY CONTROL SAMPLE: 2493216

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/kg	2500	2660	106	70-130	
Bromoform	ug/kg	2500	2260	90	60-130	
Bromomethane	ug/kg	2500	2480	99	45-153	
Carbon tetrachloride	ug/kg	2500	2690	108	70-130	
Chlorobenzene	ug/kg	2500	2480	99	70-130	
Chloroethane	ug/kg	2500	2600	104	55-160	
Chloroform	ug/kg	2500	2460	98	80-120	
Chloromethane	ug/kg	2500	2470	99	47-130	
cis-1,2-Dichloroethene	ug/kg	2500	2550	102	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2490	99	70-130	
Dibromochloromethane	ug/kg	2500	2400	96	70-130	
Dichlorodifluoromethane	ug/kg	2500	2230	89	16-83 L1	
Ethylbenzene	ug/kg	2500	2520	101	80-120	
Isopropylbenzene (Cumene)	ug/kg	2500	2480	99	70-130	
m&p-Xylene	ug/kg	5000	5010	100	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2360	94	65-130	
Methylene Chloride	ug/kg	2500	2610	105	70-130	
o-Xylene	ug/kg	2500	2530	101	70-130	
Styrene	ug/kg	2500	2570	103	70-130	
Tetrachloroethene	ug/kg	2500	2460	98	70-130	
Toluene	ug/kg	2500	2510	100	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2600	104	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2470	99	70-130	
Trichloroethene	ug/kg	2500	2540	101	70-130	
Trichlorofluoromethane	ug/kg	2500	2520	101	70-130	
Vinyl chloride	ug/kg	2500	2310	92	59-114	
1,2-Dichlorobenzene-d4 (S)	%			99	71-161	
4-Bromofluorobenzene (S)	%			99	68-156	
Toluene-d8 (S)	%			102	69-153	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2493217 2493218

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40255393030	Spike Conc.	Spike Conc.	Result								
1,1,1-Trichloroethane	ug/kg	<16.7	1300	1300	967	995	74	76	69-130	3	20		
1,1,2,2-Tetrachloroethane	ug/kg	<23.6	1300	1300	1250	1290	96	99	70-130	3	20		
1,1,2-Trichloroethane	ug/kg	<23.8	1300	1300	1250	1220	96	93	70-130	3	20		
1,1-Dichloroethane	ug/kg	<16.7	1300	1300	1230	1230	94	94	70-130	1	20		
1,1-Dichloroethene	ug/kg	<21.7	1300	1300	997	930	76	71	55-120	7	22		
1,2,4-Trichlorobenzene	ug/kg	<53.8	1300	1300	1370	1340	105	102	67-130	2	20		
1,2-Dibromo-3-chloropropane	ug/kg	<50.7	1300	1300	1030	1220	79	93	70-130	16	22		
1,2-Dibromoethane (EDB)	ug/kg	<17.9	1300	1300	1190	1230	91	94	70-130	3	20		
1,2-Dichlorobenzene	ug/kg	<20.2	1300	1300	1310	1350	100	104	70-130	3	20		
1,2-Dichloroethane	ug/kg	<15.0	1300	1300	1330	1370	102	105	70-130	3	20		

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QUALITY CONTROL DATA

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Parameter	Units	40255393030		2493217		2493218		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
1,2-Dichloropropane	ug/kg	<15.5	1300	1300	1260	1250	96	95	80-123	1	20			
1,3-Dichlorobenzene	ug/kg	<17.9	1300	1300	1210	1230	93	94	70-130	1	20			
1,4-Dichlorobenzene	ug/kg	<17.9	1300	1300	1190	1220	91	93	70-130	2	20			
Benzene	ug/kg	<15.5	1300	1300	1190	1230	91	94	70-130	3	20			
Bromodichloromethane	ug/kg	<15.5	1300	1300	1230	1250	94	96	70-130	2	20			
Bromoform	ug/kg	<287	1300	1300	1250	1240	96	95	60-130	1	20			
Bromomethane	ug/kg	<91.6	1300	1300	1220	1210	93	93	38-153	0	20			
Carbon tetrachloride	ug/kg	<14.4	1300	1300	938	953	72	73	62-130	2	20			
Chlorobenzene	ug/kg	<7.8	1300	1300	1260	1250	97	96	70-130	1	20			
Chloroethane	ug/kg	<27.6	1300	1300	1180	1240	90	95	53-160	5	24			
Chloroform	ug/kg	<46.8	1300	1300	1170	1230	90	94	80-120	5	20			
Chloromethane	ug/kg	<24.8	1300	1300	1230	1180	94	91	10-130	3	20			
cis-1,2-Dichloroethene	ug/kg	<14.0	1300	1300	1270	1260	97	97	70-130	0	20			
cis-1,3-Dichloropropene	ug/kg	<43.1	1300	1300	1110	1150	85	88	70-130	4	20			
Dibromochloromethane	ug/kg	<223	1300	1300	1180	1180	91	90	70-130	0	20			
Dichlorodifluoromethane	ug/kg	<28.1	1300	1300	806	833	62	64	10-83	3	31			
Ethylbenzene	ug/kg	<15.5	1300	1300	1210	1190	93	91	80-120	2	20			
Isopropylbenzene (Cumene)	ug/kg	<17.6	1300	1300	1140	1120	87	86	70-130	2	20			
m&p-Xylene	ug/kg	<27.6	2620	2620	2490	2370	95	91	70-130	5	20			
Methyl-tert-butyl ether	ug/kg	<19.2	1300	1300	1190	1180	91	90	66-130	1	20			
Methylene Chloride	ug/kg	<18.2	1300	1300	1320	1310	101	100	70-130	1	20			
o-Xylene	ug/kg	<19.6	1300	1300	1290	1230	99	94	70-130	5	20			
Styrene	ug/kg	<16.7	1300	1300	1310	1260	100	97	70-130	4	20			
Tetrachloroethene	ug/kg	<25.3	1300	1300	1010	995	77	76	69-130	2	20			
Toluene	ug/kg	<16.5	1300	1300	1200	1210	92	93	79-120	1	20			
trans-1,2-Dichloroethene	ug/kg	<14.1	1300	1300	1190	1190	91	91	70-130	1	20			
trans-1,3-Dichloropropene	ug/kg	<187	1300	1300	1110	1180	85	90	69-130	6	20			
Trichloroethene	ug/kg	45.9J	1300	1300	1150	1170	84	86	70-130	2	20			
Trichlorofluoromethane	ug/kg	<18.9	1300	1300	774	818	59	63	50-130	5	22			
Vinyl chloride	ug/kg	<13.2	1300	1300	912	874	70	67	26-114	4	20			
1,2-Dichlorobenzene-d4 (S)	%						112	114	71-161					
4-Bromofluorobenzene (S)	%						116	115	68-156					
Toluene-d8 (S)	%						114	115	69-153					

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QUALITY CONTROL DATA

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

QC Batch: 433137 Analysis Method: EPA 8082A
QC Batch Method: EPA 3541 Analysis Description: 8082 GCS PCB
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40255397018, 40255397019, 40255397021

METHOD BLANK: 2493291 Matrix: Solid
Associated Lab Samples: 40255397018, 40255397019, 40255397021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<15.2	50.0	12/08/22 13:15	
PCB-1221 (Aroclor 1221)	ug/kg	<15.2	50.0	12/08/22 13:15	
PCB-1232 (Aroclor 1232)	ug/kg	<15.2	50.0	12/08/22 13:15	
PCB-1242 (Aroclor 1242)	ug/kg	<15.2	50.0	12/08/22 13:15	
PCB-1248 (Aroclor 1248)	ug/kg	<15.2	50.0	12/08/22 13:15	
PCB-1254 (Aroclor 1254)	ug/kg	<15.2	50.0	12/08/22 13:15	
PCB-1260 (Aroclor 1260)	ug/kg	<15.2	50.0	12/08/22 13:15	
Decachlorobiphenyl (S)	%	78	38-95	12/08/22 13:15	
Tetrachloro-m-xylene (S)	%	76	50-99	12/08/22 13:15	

LABORATORY CONTROL SAMPLE: 2493292

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<15.2			
PCB-1221 (Aroclor 1221)	ug/kg		<15.2			
PCB-1232 (Aroclor 1232)	ug/kg		<15.2			
PCB-1242 (Aroclor 1242)	ug/kg		<15.2			
PCB-1248 (Aroclor 1248)	ug/kg		<15.2			
PCB-1254 (Aroclor 1254)	ug/kg		<15.2			
PCB-1260 (Aroclor 1260)	ug/kg	500	444	89	71-104	
Decachlorobiphenyl (S)	%			81	38-95	
Tetrachloro-m-xylene (S)	%			77	50-99	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2493293 2493294

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40255470096 Result	Spike Conc.	Spike Conc.	Result						
PCB-1016 (Aroclor 1016)	ug/kg	ND			<16.5	<16.4					20
PCB-1221 (Aroclor 1221)	ug/kg	ND			<16.5	<16.4					20
PCB-1232 (Aroclor 1232)	ug/kg	ND			<16.5	<16.4					20
PCB-1242 (Aroclor 1242)	ug/kg	ND			<16.5	<16.4					20
PCB-1248 (Aroclor 1248)	ug/kg	ND			<16.5	<16.4					20
PCB-1254 (Aroclor 1254)	ug/kg	ND			<16.5	<16.4					20
PCB-1260 (Aroclor 1260)	ug/kg	ND	541	539	459	463	85	86	42-109	1	20
Decachlorobiphenyl (S)	%						78	77	38-95		
Tetrachloro-m-xylene (S)	%						74	74	50-99		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

QC Batch: 432776 Analysis Method: EPA 8270E by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270E/3546 MSSV PAH by SIM
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40255397002, 40255397003, 40255397004, 40255397005, 40255397006, 40255397007, 40255397008, 40255397009, 40255397010, 40255397011

METHOD BLANK: 2491355 Matrix: Solid
Associated Lab Samples: 40255397002, 40255397003, 40255397004, 40255397005, 40255397006, 40255397007, 40255397008, 40255397009, 40255397010, 40255397011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<2.4	16.7	12/02/22 10:09	
2-Methylnaphthalene	ug/kg	<2.4	16.7	12/02/22 10:09	
Acenaphthene	ug/kg	<2.2	16.7	12/02/22 10:09	
Acenaphthylene	ug/kg	<2.1	16.7	12/02/22 10:09	
Anthracene	ug/kg	<2.1	16.7	12/02/22 10:09	
Benzo(a)anthracene	ug/kg	<2.2	16.7	12/02/22 10:09	
Benzo(a)pyrene	ug/kg	<1.9	16.7	12/02/22 10:09	
Benzo(b)fluoranthene	ug/kg	<2.3	16.7	12/02/22 10:09	
Benzo(g,h,i)perylene	ug/kg	<2.9	16.7	12/02/22 10:09	
Benzo(k)fluoranthene	ug/kg	<2.1	16.7	12/02/22 10:09	
Chrysene	ug/kg	<3.2	16.7	12/02/22 10:09	
Dibenz(a,h)anthracene	ug/kg	<2.3	16.7	12/02/22 10:09	
Fluoranthene	ug/kg	<2.0	16.7	12/02/22 10:09	
Fluorene	ug/kg	<2.0	16.7	12/02/22 10:09	
Indeno(1,2,3-cd)pyrene	ug/kg	<3.5	16.7	12/02/22 10:09	
Naphthalene	ug/kg	<1.6	16.7	12/02/22 10:09	
Phenanthrene	ug/kg	<1.9	16.7	12/02/22 10:09	
Pyrene	ug/kg	<2.5	16.7	12/02/22 10:09	
2-Fluorobiphenyl (S)	%	83	41-98	12/02/22 10:09	
Terphenyl-d14 (S)	%	86	37-106	12/02/22 10:09	

LABORATORY CONTROL SAMPLE: 2491356

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	283	85	64-110	
2-Methylnaphthalene	ug/kg	333	283	85	60-110	
Acenaphthene	ug/kg	333	292	88	69-120	
Acenaphthylene	ug/kg	333	294	88	63-120	
Anthracene	ug/kg	333	309	93	71-112	
Benzo(a)anthracene	ug/kg	333	293	88	62-120	
Benzo(a)pyrene	ug/kg	333	320	96	71-111	
Benzo(b)fluoranthene	ug/kg	333	302	91	59-112	
Benzo(g,h,i)perylene	ug/kg	333	322	97	64-115	
Benzo(k)fluoranthene	ug/kg	333	303	91	72-117	
Chrysene	ug/kg	333	286	86	75-120	
Dibenz(a,h)anthracene	ug/kg	333	325	98	67-114	
Fluoranthene	ug/kg	333	323	97	70-110	

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QUALITY CONTROL DATA

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

LABORATORY CONTROL SAMPLE: 2491356

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	ug/kg	333	311	94	64-104	
Indeno(1,2,3-cd)pyrene	ug/kg	333	327	98	71-114	
Naphthalene	ug/kg	333	268	80	62-120	
Phenanthrene	ug/kg	333	303	91	59-106	
Pyrene	ug/kg	333	293	88	69-120	
2-Fluorobiphenyl (S)	%			91	41-98	
Terphenyl-d14 (S)	%			89	37-106	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2491357 2491358

Parameter	Units	MS 40255397009		MSD		MS 2491357		MSD 2491358		% Rec Limits	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
1-Methylnaphthalene	ug/kg	<2.7	371	371	279	270	75	73	51-110	3	34	
2-Methylnaphthalene	ug/kg	<2.7	371	371	270	276	73	74	45-110	2	29	
Acenaphthene	ug/kg	<2.4	371	371	278	291	75	78	52-120	4	26	
Acenaphthylene	ug/kg	<2.3	371	371	280	293	75	79	46-120	5	22	
Anthracene	ug/kg	<2.3	371	371	287	312	77	84	50-112	8	25	
Benzo(a)anthracene	ug/kg	<2.4	371	371	274	296	74	80	41-120	8	37	
Benzo(a)pyrene	ug/kg	<2.1	371	371	294	319	79	86	44-114	8	33	
Benzo(b)fluoranthene	ug/kg	<2.6	371	371	297	316	80	85	41-112	6	43	
Benzo(g,h,i)perylene	ug/kg	<3.3	371	371	294	321	79	86	40-115	9	36	
Benzo(k)fluoranthene	ug/kg	<2.4	371	371	275	301	74	81	56-117	9	30	
Chrysene	ug/kg	<3.5	371	371	266	289	72	78	45-120	8	28	
Dibenz(a,h)anthracene	ug/kg	<2.6	371	371	298	325	80	87	44-114	9	33	
Fluoranthene	ug/kg	<2.2	371	371	300	330	81	89	55-110	9	43	
Fluorene	ug/kg	<2.2	371	371	294	311	79	84	47-104	6	27	
Indeno(1,2,3-cd)pyrene	ug/kg	<3.9	371	371	298	324	80	87	45-114	9	33	
Naphthalene	ug/kg	<1.8	371	371	251	259	68	70	47-120	3	26	
Phenanthrene	ug/kg	<2.1	371	371	281	306	76	83	38-106	9	24	
Pyrene	ug/kg	<2.7	371	371	269	293	72	79	51-120	9	41	
2-Fluorobiphenyl (S)	%						75	76	41-98			
Terphenyl-d14 (S)	%						71	75	37-106			

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QUALITY CONTROL DATA

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

QC Batch: 432911 Analysis Method: EPA 8270E by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270E/3546 MSSV PAH by SIM
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40255397012, 40255397013, 40255397014, 40255397015

METHOD BLANK: 2492326 Matrix: Solid
Associated Lab Samples: 40255397012, 40255397013, 40255397014, 40255397015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<2.4	16.7	12/05/22 10:47	
2-Methylnaphthalene	ug/kg	<2.4	16.7	12/05/22 10:47	
Acenaphthene	ug/kg	<2.2	16.7	12/05/22 10:47	
Acenaphthylene	ug/kg	<2.1	16.7	12/05/22 10:47	
Anthracene	ug/kg	<2.1	16.7	12/05/22 10:47	
Benzo(a)anthracene	ug/kg	<2.2	16.7	12/05/22 10:47	
Benzo(a)pyrene	ug/kg	<1.9	16.7	12/05/22 10:47	
Benzo(b)fluoranthene	ug/kg	<2.3	16.7	12/05/22 10:47	
Benzo(g,h,i)perylene	ug/kg	<2.9	16.7	12/05/22 10:47	
Benzo(k)fluoranthene	ug/kg	<2.1	16.7	12/05/22 10:47	
Chrysene	ug/kg	<3.1	16.7	12/05/22 10:47	
Dibenz(a,h)anthracene	ug/kg	<2.3	16.7	12/05/22 10:47	
Fluoranthene	ug/kg	<2.0	16.7	12/05/22 10:47	
Fluorene	ug/kg	<2.0	16.7	12/05/22 10:47	
Indeno(1,2,3-cd)pyrene	ug/kg	<3.5	16.7	12/05/22 10:47	
Naphthalene	ug/kg	<1.6	16.7	12/05/22 10:47	
Phenanthrene	ug/kg	<1.9	16.7	12/05/22 10:47	
Pyrene	ug/kg	<2.5	16.7	12/05/22 10:47	
2-Fluorobiphenyl (S)	%	77	41-98	12/05/22 10:47	
Terphenyl-d14 (S)	%	79	37-106	12/05/22 10:47	

LABORATORY CONTROL SAMPLE: 2492327

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	261	78	64-110	
2-Methylnaphthalene	ug/kg	333	269	81	60-110	
Acenaphthene	ug/kg	333	272	82	69-120	
Acenaphthylene	ug/kg	333	273	82	63-120	
Anthracene	ug/kg	333	288	86	71-112	
Benzo(a)anthracene	ug/kg	333	272	82	62-120	
Benzo(a)pyrene	ug/kg	333	297	89	71-111	
Benzo(b)fluoranthene	ug/kg	333	285	86	59-112	
Benzo(g,h,i)perylene	ug/kg	333	292	88	64-115	
Benzo(k)fluoranthene	ug/kg	333	285	86	72-117	
Chrysene	ug/kg	333	265	80	75-120	
Dibenz(a,h)anthracene	ug/kg	333	296	89	67-114	
Fluoranthene	ug/kg	333	305	92	70-110	
Fluorene	ug/kg	333	288	87	64-104	
Indeno(1,2,3-cd)pyrene	ug/kg	333	296	89	71-114	

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QUALITY CONTROL DATA

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

LABORATORY CONTROL SAMPLE: 2492327

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	333	255	77	62-120	
Phenanthrene	ug/kg	333	287	86	59-106	
Pyrene	ug/kg	333	267	80	69-120	
2-Fluorobiphenyl (S)	%			82	41-98	
Terphenyl-d14 (S)	%			81	37-106	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2492328 2492329

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40255397012 Result	Spike Conc.	Spike Conc.	MS Result						
1-Methylnaphthalene	ug/kg	<2.5	344	345	267	264	78	76	51-110	1	34
2-Methylnaphthalene	ug/kg	<2.5	344	345	275	270	80	78	45-110	2	29
Acenaphthene	ug/kg	<2.2	344	345	282	271	82	79	52-120	4	26
Acenaphthylene	ug/kg	<2.2	344	345	284	273	82	79	46-120	4	22
Anthracene	ug/kg	<2.1	344	345	291	278	84	80	50-112	5	25
Benzo(a)anthracene	ug/kg	<2.2	344	345	279	268	81	78	41-120	4	37
Benzo(a)pyrene	ug/kg	<2.0	344	345	306	284	89	82	44-114	8	33
Benzo(b)fluoranthene	ug/kg	<2.4	344	345	298	279	86	80	41-112	6	43
Benzo(g,h,i)perylene	ug/kg	<3.0	344	345	303	285	87	82	40-115	6	36
Benzo(k)fluoranthene	ug/kg	<2.2	344	345	302	277	87	80	56-117	9	30
Chrysene	ug/kg	<3.3	344	345	272	261	79	75	45-120	4	28
Dibenz(a,h)anthracene	ug/kg	<2.4	344	345	301	287	87	83	44-114	5	33
Fluoranthene	ug/kg	<2.0	344	345	315	296	91	86	55-110	6	43
Fluorene	ug/kg	<2.1	344	345	299	287	87	83	47-104	4	27
Indeno(1,2,3-cd)pyrene	ug/kg	<3.6	344	345	304	287	88	83	45-114	6	33
Naphthalene	ug/kg	<1.7	344	345	251	252	73	73	47-120	0	26
Phenanthrene	ug/kg	<2.0	344	345	291	275	84	80	38-106	6	24
Pyrene	ug/kg	<2.5	344	345	274	261	79	75	51-120	5	41
2-Fluorobiphenyl (S)	%						81	78	41-98		
Terphenyl-d14 (S)	%						79	76	37-106		

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QUALITY CONTROL DATA

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

QC Batch: 433009 Analysis Method: EPA 8270E by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270E/3546 MSSV PAH by SIM
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40255397001, 40255397016, 40255397017, 40255397018, 40255397019

METHOD BLANK: 2492623 Matrix: Solid
Associated Lab Samples: 40255397001, 40255397016, 40255397017, 40255397018, 40255397019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<2.4	16.7	12/06/22 10:40	
2-Methylnaphthalene	ug/kg	<2.4	16.7	12/06/22 10:40	
Acenaphthene	ug/kg	<2.2	16.7	12/06/22 10:40	
Acenaphthylene	ug/kg	<2.1	16.7	12/06/22 10:40	
Anthracene	ug/kg	<2.1	16.7	12/06/22 10:40	
Benzo(a)anthracene	ug/kg	<2.2	16.7	12/06/22 10:40	
Benzo(a)pyrene	ug/kg	<1.9	16.7	12/06/22 10:40	
Benzo(b)fluoranthene	ug/kg	<2.3	16.7	12/06/22 10:40	
Benzo(g,h,i)perylene	ug/kg	<2.9	16.7	12/06/22 10:40	
Benzo(k)fluoranthene	ug/kg	<2.1	16.7	12/06/22 10:40	
Chrysene	ug/kg	<3.1	16.7	12/06/22 10:40	
Dibenz(a,h)anthracene	ug/kg	<2.3	16.7	12/06/22 10:40	
Fluoranthene	ug/kg	<2.0	16.7	12/06/22 10:40	
Fluorene	ug/kg	<2.0	16.7	12/06/22 10:40	
Indeno(1,2,3-cd)pyrene	ug/kg	<3.5	16.7	12/06/22 10:40	
Naphthalene	ug/kg	<1.6	16.7	12/06/22 10:40	
Phenanthrene	ug/kg	<1.9	16.7	12/06/22 10:40	
Pyrene	ug/kg	<2.5	16.7	12/06/22 10:40	
2-Fluorobiphenyl (S)	%	80	41-98	12/06/22 10:40	
Terphenyl-d14 (S)	%	78	37-106	12/06/22 10:40	

LABORATORY CONTROL SAMPLE: 2492624

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	273	82	64-110	
2-Methylnaphthalene	ug/kg	333	268	80	60-110	
Acenaphthene	ug/kg	333	276	83	69-120	
Acenaphthylene	ug/kg	333	280	84	63-120	
Anthracene	ug/kg	333	293	88	71-112	
Benzo(a)anthracene	ug/kg	333	285	86	62-120	
Benzo(a)pyrene	ug/kg	333	308	92	71-111	
Benzo(b)fluoranthene	ug/kg	333	303	91	59-112	
Benzo(g,h,i)perylene	ug/kg	333	300	90	64-115	
Benzo(k)fluoranthene	ug/kg	333	290	87	72-117	
Chrysene	ug/kg	333	278	84	75-120	
Dibenz(a,h)anthracene	ug/kg	333	304	91	67-114	
Fluoranthene	ug/kg	333	312	94	70-110	
Fluorene	ug/kg	333	299	90	64-104	
Indeno(1,2,3-cd)pyrene	ug/kg	333	304	91	71-114	

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QUALITY CONTROL DATA

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

LABORATORY CONTROL SAMPLE: 2492624

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	333	247	74	62-120	
Phenanthrene	ug/kg	333	289	87	59-106	
Pyrene	ug/kg	333	281	84	69-120	
2-Fluorobiphenyl (S)	%			81	41-98	
Terphenyl-d14 (S)	%			82	37-106	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2492625 2492626

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40255444009 Result	Spike Conc.	Spike Conc.	MS Result						
1-Methylnaphthalene	ug/kg	<2.6	352	352	297	252	84	71	51-110	16	34
2-Methylnaphthalene	ug/kg	<2.6	352	352	274	252	78	71	45-110	8	29
Acenaphthene	ug/kg	<2.3	352	352	276	256	78	72	52-120	8	26
Acenaphthylene	ug/kg	<2.2	352	352	278	259	79	73	46-120	7	22
Anthracene	ug/kg	<2.2	352	352	286	263	81	75	50-112	8	25
Benzo(a)anthracene	ug/kg	<2.3	352	352	270	250	77	71	41-120	8	37
Benzo(a)pyrene	ug/kg	<2.0	352	352	292	270	83	77	44-114	8	33
Benzo(b)fluoranthene	ug/kg	<2.4	352	352	276	264	78	75	41-112	5	43
Benzo(g,h,i)perylene	ug/kg	<3.1	352	352	274	257	77	73	40-115	6	36
Benzo(k)fluoranthene	ug/kg	<2.3	352	352	283	255	80	72	56-117	10	30
Chrysene	ug/kg	<3.3	352	352	280	258	79	73	45-120	8	28
Dibenz(a,h)anthracene	ug/kg	<2.4	352	352	282	263	80	74	44-114	7	33
Fluoranthene	ug/kg	<2.1	352	352	302	281	85	80	55-110	7	43
Fluorene	ug/kg	<2.1	352	352	294	272	83	77	47-104	8	27
Indeno(1,2,3-cd)pyrene	ug/kg	<3.7	352	352	281	263	80	74	45-114	7	33
Naphthalene	ug/kg	<1.7	352	352	253	235	72	67	47-120	7	26
Phenanthrene	ug/kg	<2.0	352	352	284	260	80	74	38-106	9	24
Pyrene	ug/kg	<2.6	352	352	270	249	77	71	51-120	8	41
2-Fluorobiphenyl (S)	%						80	71	41-98		
Terphenyl-d14 (S)	%						78	70	37-106		

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QUALITY CONTROL DATA

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

QC Batch:	432752	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40255397001, 40255397002, 40255397003, 40255397004, 40255397005, 40255397006, 40255397007, 40255397008, 40255397009, 40255397010, 40255397011, 40255397012, 40255397013, 40255397014, 40255397015, 40255397016, 40255397017, 40255397018, 40255397019, 40255397020

SAMPLE DUPLICATE: 2491225

Parameter	Units	40255397001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.1	7.2	1	10	

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

QC Batch: 432754

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40255397021

SAMPLE DUPLICATE: 2491229

Parameter	Units	40255397021 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.3	11.4	1	10	

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.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 3M MENOMINIE CESA

Pace Project No.: 40255397

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.

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

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40255397018	SB-18	EPA 3541	433137	EPA 8082A	433172
40255397019	SB-19	EPA 3541	433137	EPA 8082A	433172
40255397021	DUPLICATE NO. 1	EPA 3541	433137	EPA 8082A	433172
40255397001	SB-1	EPA 3050B	432764	EPA 6010D	432858
40255397002	SB-2	EPA 3050B	432764	EPA 6010D	432858
40255397003	SB-3	EPA 3050B	432764	EPA 6010D	432858
40255397004	SB-4	EPA 3050B	432764	EPA 6010D	432858
40255397005	SB-5	EPA 3050B	432764	EPA 6010D	432858
40255397006	DUPLICATE NO. 2	EPA 3050B	432764	EPA 6010D	432858
40255397007	DUPLICATE NO. 3	EPA 3050B	432764	EPA 6010D	432858
40255397008	SB-8	EPA 3050B	432764	EPA 6010D	432858
40255397009	SB-9	EPA 3050B	432764	EPA 6010D	432858
40255397010	SB-10	EPA 3050B	432764	EPA 6010D	432858
40255397011	SB-11	EPA 3050B	432764	EPA 6010D	432858
40255397012	SB-12	EPA 3050B	432764	EPA 6010D	432858
40255397013	SB-13	EPA 3050B	432764	EPA 6010D	432858
40255397014	SB-14	EPA 3050B	432764	EPA 6010D	432858
40255397015	SB-15	EPA 3050B	432764	EPA 6010D	432858
40255397016	SB-16	EPA 3050B	432764	EPA 6010D	432858
40255397017	SB-17	EPA 3050B	432764	EPA 6010D	432858
40255397018	SB-18	EPA 3050B	432764	EPA 6010D	432858
40255397019	SB-19	EPA 3050B	432764	EPA 6010D	432858
40255397020	SB-23	EPA 3050B	432764	EPA 6010D	432858
40255397021	DUPLICATE NO. 1	EPA 3050B	432767	EPA 6010D	432857
40255397001	SB-1	EPA 7471	432887	EPA 7471	432955
40255397002	SB-2	EPA 7471	432887	EPA 7471	432955
40255397003	SB-3	EPA 7471	432887	EPA 7471	432955
40255397004	SB-4	EPA 7471	432887	EPA 7471	432955
40255397005	SB-5	EPA 7471	432887	EPA 7471	432955
40255397006	DUPLICATE NO. 2	EPA 7471	432887	EPA 7471	432955
40255397007	DUPLICATE NO. 3	EPA 7471	432887	EPA 7471	432955
40255397008	SB-8	EPA 7471	432887	EPA 7471	432955
40255397009	SB-9	EPA 7471	432887	EPA 7471	432955
40255397010	SB-10	EPA 7471	432887	EPA 7471	432955
40255397011	SB-11	EPA 7471	432887	EPA 7471	432955
40255397012	SB-12	EPA 7471	432887	EPA 7471	432955
40255397013	SB-13	EPA 7471	432887	EPA 7471	432955
40255397014	SB-14	EPA 7471	432887	EPA 7471	432955
40255397015	SB-15	EPA 7471	432887	EPA 7471	432955
40255397016	SB-16	EPA 7471	432887	EPA 7471	432955
40255397017	SB-17	EPA 7471	432887	EPA 7471	432955
40255397018	SB-18	EPA 7471	432887	EPA 7471	432955
40255397019	SB-19	EPA 7471	432887	EPA 7471	432955
40255397020	SB-23	EPA 7471	432887	EPA 7471	432955
40255397021	DUPLICATE NO. 1	EPA 7471	432885	EPA 7471	432953
40255397001	SB-1	EPA 3546	433009	EPA 8270E by SIM	433040

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40255397002	SB-2	EPA 3546	432776	EPA 8270E by SIM	432808
40255397003	SB-3	EPA 3546	432776	EPA 8270E by SIM	432808
40255397004	SB-4	EPA 3546	432776	EPA 8270E by SIM	432808
40255397005	SB-5	EPA 3546	432776	EPA 8270E by SIM	432808
40255397006	DUPLICATE NO. 2	EPA 3546	432776	EPA 8270E by SIM	432808
40255397007	DUPLICATE NO. 3	EPA 3546	432776	EPA 8270E by SIM	432808
40255397008	SB-8	EPA 3546	432776	EPA 8270E by SIM	432808
40255397009	SB-9	EPA 3546	432776	EPA 8270E by SIM	432808
40255397010	SB-10	EPA 3546	432776	EPA 8270E by SIM	432808
40255397011	SB-11	EPA 3546	432776	EPA 8270E by SIM	432808
40255397012	SB-12	EPA 3546	432911	EPA 8270E by SIM	432939
40255397013	SB-13	EPA 3546	432911	EPA 8270E by SIM	432939
40255397014	SB-14	EPA 3546	432911	EPA 8270E by SIM	432939
40255397015	SB-15	EPA 3546	432911	EPA 8270E by SIM	432939
40255397016	SB-16	EPA 3546	433009	EPA 8270E by SIM	433040
40255397017	SB-17	EPA 3546	433009	EPA 8270E by SIM	433040
40255397018	SB-18	EPA 3546	433009	EPA 8270E by SIM	433040
40255397019	SB-19	EPA 3546	433009	EPA 8270E by SIM	433040
40255397001	SB-1	EPA 5035/5030B	433114	EPA 8260	433117
40255397002	SB-2	EPA 5035/5030B	433123	EPA 8260	433143
40255397003	SB-3	EPA 5035/5030B	433123	EPA 8260	433143
40255397004	SB-4	EPA 5035/5030B	433123	EPA 8260	433143
40255397005	SB-5	EPA 5035/5030B	433123	EPA 8260	433143
40255397006	DUPLICATE NO. 2	EPA 5035/5030B	433123	EPA 8260	433143
40255397007	DUPLICATE NO. 3	EPA 5035/5030B	433123	EPA 8260	433143
40255397008	SB-8	EPA 5035/5030B	433123	EPA 8260	433143
40255397009	SB-9	EPA 5035/5030B	433123	EPA 8260	433143
40255397010	SB-10	EPA 5035/5030B	433123	EPA 8260	433143
40255397011	SB-11	EPA 5035/5030B	433123	EPA 8260	433143
40255397012	SB-12	EPA 5035/5030B	433114	EPA 8260	433117
40255397013	SB-13	EPA 5035/5030B	433114	EPA 8260	433117
40255397014	SB-14	EPA 5035/5030B	433114	EPA 8260	433117
40255397015	SB-15	EPA 5035/5030B	433114	EPA 8260	433117
40255397016	SB-16	EPA 5035/5030B	433114	EPA 8260	433117
40255397017	SB-17	EPA 5035/5030B	433114	EPA 8260	433117
40255397018	SB-18	EPA 5035/5030B	433114	EPA 8260	433117
40255397019	SB-19	EPA 5035/5030B	433114	EPA 8260	433117
40255397022	TRIP BLANK	EPA 5035/5030B	433114	EPA 8260	433117
40255397001	SB-1	ASTM D2974-87	432752		
40255397002	SB-2	ASTM D2974-87	432752		
40255397003	SB-3	ASTM D2974-87	432752		
40255397004	SB-4	ASTM D2974-87	432752		
40255397005	SB-5	ASTM D2974-87	432752		
40255397006	DUPLICATE NO. 2	ASTM D2974-87	432752		
40255397007	DUPLICATE NO. 3	ASTM D2974-87	432752		
40255397008	SB-8	ASTM D2974-87	432752		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 3M MENOMINIE CESA
Pace Project No.: 40255397

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40255397009	SB-9	ASTM D2974-87	432752		
40255397010	SB-10	ASTM D2974-87	432752		
40255397011	SB-11	ASTM D2974-87	432752		
40255397012	SB-12	ASTM D2974-87	432752		
40255397013	SB-13	ASTM D2974-87	432752		
40255397014	SB-14	ASTM D2974-87	432752		
40255397015	SB-15	ASTM D2974-87	432752		
40255397016	SB-16	ASTM D2974-87	432752		
40255397017	SB-17	ASTM D2974-87	432752		
40255397018	SB-18	ASTM D2974-87	432752		
40255397019	SB-19	ASTM D2974-87	432752		
40255397020	SB-23	ASTM D2974-87	432752		
40255397021	DUPLICATE NO. 1	ASTM D2974-87	432754		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt Form (SCUR)

Client Name: TetraTech

Project # 425537

Additional Comments/Resolution: _____

001 " SB-1, 2' " time 10:30

002 " SB-2, -2' "

008 " SB-8, -2' "

009 " SB-9, 2' "

010 " SB-10, -2' "

011 " SB-11, -2' "

012 " SB-12, -2' "

013 " SB-13, -2' "

014 " SB-14, -2' "

015 " SB-15, -2' "

016 " SB-16, -2' "

017 " SB-17, -2' "

018 " SB-18, -2' "

019 " SB-19, -2' "

12/1/22 mp

12/1/22 mp
Page 2 of 3
3 of 4
12/1/22 mp
Page 2 of 2

Sample Condition Upon Receipt Form (SCUR)

Project #:
WO# : 40255397

 40255397

Client Name: Tetra Tech

Courier: CS Logistics Fed Ex Speedee UPS Walto
 Client Pace Other: _____

Tracking #: 7706 3858 8063 7706 3027 7635

Custody Seal on Cooler/Box Present: yes no **Seals intact:** yes no

Custody Seal on Samples Present: yes no **Seals intact:** yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - 124 **Type of Ice:** Wet Blue Dry None Meltwater Only

Cooler Temperature Uncorr 3°/5°/Corr 3°/5°

Temp Blank Present: yes no **Biological Tissue is Frozen:** yes no

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
 Date: 12/1/22 Initials: MP
 Labeled By Initials: SKW

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>proj#, pres. 12/1/22 mp</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- DI VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Correct Type: <u>Pace Green Bay, Pace IR, Non-Pace</u>		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>see additional comments</u>
-Includes date/time/ID/Analysis Matrix: <u>5</u>		<u>12/1/22 mp</u>
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<u>12/1/22 mp</u>
Pace Trip Blank Lot # (if purchased): <u>B134501VB</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir

Page 3 of 3
4 4
12/1/22 mp

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

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

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
10652482001	MEWI-GW-MW1-0-230508					
ENV-SOP-MIN4-0178	PFBA	0.0052	ug/L	0.0020	05/26/23 15:29	N2
10652482002	MEWI-GW-MW2-0-230509					
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
10652482003	MEWI-GW-MW3-0-230508					
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
10652482004	MEWI-GW-DB-0-230508					
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
10652482005	MEWI-GW-MW4-0-230508					
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
10652482006	MEWI-GW-MW5-0-230508					
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
10652482007	MEWI-GW-MW6-0-230508					
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
10652482008	MEWI-GW-MW7-0-230508					
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
WI ID NPW									
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	0.0052	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
Surrogates									
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
WI ID NPW									
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	0.022	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	0.23	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	0.20	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
Surrogates									
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-PFD _o A (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	

REPORT OF LABORATORY ANALYSIS

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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
WI ID NPW 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	0.017	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	0.069	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	0.12	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	0.042	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	1.8	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	1.5	ug/L	0.018	0.0065	10	05/16/23 13:50	05/19/23 16:15	1763-23-1	N2
Perfluorooctanoic acid	0.73	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
Surrogates									
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	

REPORT OF LABORATORY ANALYSIS

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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
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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)	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
WI ID NPW 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
Surrogates									
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	

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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
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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)	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
WI ID NPW									
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	0.094	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	0.052	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	0.76	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	1.2	ug/L	0.018	0.0065	10	05/16/23 13:50	05/19/23 16:29	1763-23-1	N2
Perfluorooctanoic acid	0.075	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
Surrogates									
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	

REPORT OF LABORATORY ANALYSIS

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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
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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)	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
WI ID NPW									
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	0.022	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	0.080	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	0.35	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
Surrogates									
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	

REPORT OF LABORATORY ANALYSIS

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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	

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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
WI ID NPW									
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	0.0082	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	0.0057	ug/L	0.0020	0.00089	1	05/25/23 16:52	06/09/23 11:45	307-24-4	N2
PFBA	0.016	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	0.0024	ug/L	0.0020	0.00080	1	05/25/23 16:52	06/09/23 11:45	2706-90-3	N2
PFPeS	0.0084	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	0.0036	ug/L	0.0020	0.00067	1	05/25/23 16:52	06/09/23 11:45	375-85-9	N2
Perfluorohexanesulfonic acid	0.26	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	0.015	ug/L	0.0018	0.00065	1	05/25/23 16:52	06/09/23 11:45	1763-23-1	N2
Perfluorooctanoic acid	0.056	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
Surrogates									
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
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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)	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	

REPORT OF LABORATORY ANALYSIS

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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
WI ID NPW									
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	0.0047	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	0.0043	ug/L	0.0020	0.00090	1	05/16/23 13:50	05/26/23 15:44	307-24-4	N2
PFBA	0.0076	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	0.0023	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	0.023	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	0.024	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
Surrogates									
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	

REPORT OF LABORATORY ANALYSIS

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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-NMeFOSE (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-NEtFOSE (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
WI ID NPW 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
Surrogates									
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	

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ANALYTICAL RESULTS

Project: E23-0254 Menomonie

Pace Project No.: 10652482

Sample: MEWI-GW-FB1-FB-230508 **Lab ID: 1065248209** 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
WI ID NPW									
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178									
Pace Analytical Services - Minneapolis									
Surrogates									
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
WI ID NPW 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
Surrogates									
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
WI ID NPW									
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis									
Surrogates									
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

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-PFHpA (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					
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-PFOSA (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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REPORT OF LABORATORY ANALYSIS

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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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REPORT OF LABORATORY ANALYSIS

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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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REPORT OF LABORATORY ANALYSIS

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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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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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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
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	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

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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without the written consent of Pace Analytical Services, LLC.

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

Chain of Custody / Request for Analytical

Project: E23-0254 (cont.)

Sample Shipping Address

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

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			
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	E23-0254-035	MEWI-S-MW7- - FT-0-		SOIL	<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				2	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 ¹⁰	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 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	Time	Shipped Via	Received by:	Date	Time
					in person	5/9/23	1154

Comments
WI ID3 (PFAS)
WO#: 10652482
10652482

3M Global EHS Laboratory

Chain of Custody / Request for Analytical

Project: E23-0254 (cont.)

Sample Shipping Address

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

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				
							1	2	3	4	
49	E23-0254-049	MEWI-W-FB1-FB-	05/08/23 16 ⁰⁰	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	05/09/23 09 ⁰⁰	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	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): <i>Craig A Wieman</i>		Collector's signature: <i>[Signature]</i>		Comments				
Item	Relinquished by:	Date	Time					Shipped Via
					<i>in pax</i>	<i>5-9-23</i>	<i>1159</i>	Contact EHS Lab project lead for requested tests and target analytes, if not specified.

Effective Date: 4/14/2023

Sample Condition Upon Receipt	Client Name: 3M GLOBAL	Project #:	WO#: 10652482
Courier: <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input checked="" type="checkbox"/> Client <input type="checkbox"/> Pace <input type="checkbox"/> Speedee <input type="checkbox"/> Commercial		PM: CT1 Due Date: 07/03/23 CLIENT: 3M ENV	
Tracking Number: _____ See Exceptions ENV-FRM-MIN4-0142			

See Exceptions ENV-FRM-MIN4-0142
 Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No
 Biological Tissue Frozen? Yes No N/A
 Packing Material: Bubble 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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Temp should be above freezing to 6 °C Cooler temp Read w/Temp Blank: <u>3.0</u> °C Correction Factor: <u>TRUE</u> Cooler Temp Corrected w/temp blank: <u>3.0</u> °C	Were All Container Temps Taken? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Average Corrected Temp (no temp blank only): _____ °C <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142 <input type="checkbox"/> 1 Container
--	---

USDA Regulated Soil: N/A (water sample/other: _____) Date/Initials of Person Examining Contents: 5.9.23 CM7
 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? <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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A (*If adding preservative to a container, it must be added to associated field and equipment blanks--verify with PM first.)	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 Field Data Required? Yes No
 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

Chain of Custody / Request for Analytical

Project: E23-0254 (cont.)

Sample Shipping Address

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

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		
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	E23-0254-033	MEWI-S-MW7- - FT-0-		SOIL	<input type="checkbox"/> Grab <input type="checkbox"/> Comp				
36	E23-0254-036	MEWI-GW-MW1-0- 230508	5/8/23 12 ⁰⁰	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 ³⁰	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 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- 230508	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- 230508	5/8/23 15 ¹⁰	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 ²⁵	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 ³⁰	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: 

10652482

3M Global EHS Laboratory

Sample Shipping Address

Pace Analytical Services, LLC - Minneapolis
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 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

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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 ⁰⁰	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	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): Craig A Wieman Collector's signature: 

Item	Relinquished by:	Date	Time	Shipped Via	Received by:	Date	Time
					<u>K. Paer</u>	<u>5-9-23</u>	<u>1159</u>

Comments

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

June 13, 2023

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

RE: Project: E23-0254 3M Menomonie
Pace Project No.: 10652169

Dear Amanda Albrecht:

Enclosed are the analytical results for sample(s) received by the laboratory on May 05, 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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10652169001	MEWI-S-HA30-5-6 FT-0-230505	Solid	05/05/23 08:40	05/05/23 15:18
10652169002	MEWI-S-HA30-9-10 FT-0-230505	Solid	05/05/23 08:55	05/05/23 15:18
10652169003	MEWI-S-HA30-9-10 FT-DB-230505	Solid	05/05/23 09:00	05/05/23 15:18
10652169004	MEWI-S-HA31-3.5-4.5 FT-0-23050	Solid	05/05/23 09:10	05/05/23 15:18
10652169005	MEWI-S-HA31-8.5-9.5 FT-0-23050	Solid	05/05/23 09:25	05/05/23 15:18
10652169006	MEWI-S-HA31-8.5-9.5 FT-DB-2305	Solid	05/05/23 09:30	05/05/23 15:18
10652169007	MEWI-S-HA32-4-5 FT-0-230505	Solid	05/05/23 10:25	05/05/23 15:18
10652169008	MEWI-S-HA32-8.5-9.5 FT-0-23050	Solid	05/05/23 10:45	05/05/23 15:18
10652169009	MEWI-S-HA33-4-5 FT-0-230505	Solid	05/05/23 11:10	05/05/23 15:18
10652169010	MEWI-S-HA33-8.5-9.5 FT-0-23050	Solid	05/05/23 11:25	05/05/23 15:18
10652169011	MEWI-S-SB28-24-25 FT-0-230504	Solid	05/04/23 15:45	05/05/23 15:18
10652169012	MEWI-S-SB28-29-30 FT-0-230504	Solid	05/04/23 16:00	05/05/23 15:18
10652169013	MEWI-S-SB29-24-25 FT-0-230504	Solid	05/04/23 15:30	05/05/23 15:18
10652169014	MEWI-S-SB29-29-30 FT-0-230504	Solid	05/04/23 15:35	05/05/23 15:18
10652169015	MEWI-S-SB30-4.5-5.5 FT-0-23050	Solid	05/03/23 15:15	05/05/23 15:18
10652169016	MEWI-S-SB31-9-10 FT-0-230502	Solid	05/02/23 08:00	05/05/23 15:18
10652169017	MEWI-S-SB30-12.5-13.5 FT-0-230	Solid	05/03/23 15:30	05/05/23 15:18
10652169018	MEWI-S-SB30-19-20 FT-0-230503	Solid	05/03/23 15:45	05/05/23 15:18
10652169019	MEWI-S-SB31-1-2 FT-0-230502	Solid	05/02/23 07:55	05/05/23 15:18
10652169020	MEWI-S-SB31-9-10 FT-DB-230502	Solid	05/02/23 08:05	05/05/23 15:18
10652169021	MEWI-S-SB32-1-2 FT-0-230503	Solid	05/03/23 15:25	05/05/23 15:18
10652169022	MEWI-S-SB32-9-10 FT-0-230503	Solid	05/03/23 15:30	05/05/23 15:18
10652169023	MEWI-S-MW2-4.5-5.5 FT-0-230504	Solid	05/04/23 08:40	05/05/23 15:18
10652169024	MEWI-S-MW2-11.5-12.5 FT-0-2305	Solid	05/04/23 08:50	05/05/23 15:18
10652169025	MEWI-S-MW2-59-60 FT-0-230504	Solid	05/04/23 13:15	05/05/23 15:18
10652169026	MEWI-S-MW3-4.5-5.5 FT-0-230503	Solid	05/03/23 08:15	05/05/23 15:18
10652169027	MEWI-S-MW3-12.5-13.5 FT-0-2305	Solid	05/03/23 08:35	05/05/23 15:18
10652169028	MEWI-S-MW4-63-64 FT-0-230501	Solid	05/01/23 16:35	05/05/23 15:18
10652169029	MEWI-S-MW5-64-65 FT-0-230501	Solid	05/01/23 10:10	05/05/23 15:18
10652169030	MEWI-S-MW6-2-3 FT-0-230503	Solid	05/03/23 08:15	05/05/23 15:18
10652169031	MEWI-S-MW6-58-59 FT-0-230503	Solid	05/03/23 09:25	05/05/23 15:18
10652169032	MEWI-S-MW7-2-3 FT-0-230502	Solid	05/02/23 09:15	05/05/23 15:18
10652169033	MEWI-S-MW7-58-59 FT-0-230502	Solid	05/02/23 11:40	05/05/23 15:18
10652169034	MEWI-W-FB1-FB-230501	Water	05/01/23 16:05	05/05/23 15:18
10652169035	MEWI-W-FB2-FB-230502	Water	05/02/23 16:10	05/05/23 15:18
10652169036	MEWI-W-FB3-FB-230504	Water	05/04/23 10:00	05/05/23 15:18
10652169037	MEWI-W-FB4-FB-230505	Water	05/05/23 11:40	05/05/23 15:18

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10652169038	MEWI-W-EB1-EB-230502	Water	05/02/23 16:15	05/05/23 15:18
10652169039	MEWI-W-EB2-EB-230503	Water	05/03/23 17:40	05/05/23 15:18
10652169040	MEWI-W-EB3-EB-230504	Water	05/04/23 13:30	05/05/23 15:18
10652169041	MEWI-W-EB4-EB-230505	Water	05/05/23 11:35	05/05/23 15:18
10652169042	MEWI-S-MW3-59-60 FT-0-230503	Solid	05/03/23 11:05	05/05/23 15:18

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10652169001	MEWI-S-HA30-5-6 FT-0-230505	ASTM D2974	JDL	1	PASI-M
		ENV-SOP-MIN4-0178	MM4, NBH	57	PASI-M
10652169002	MEWI-S-HA30-9-10 FT-0-230505	ASTM D2974	JDL	1	PASI-M
		ENV-SOP-MIN4-0178	MM4, NBH	57	PASI-M
10652169003	MEWI-S-HA30-9-10 FT-DB-230505	ASTM D2974	JDL	1	PASI-M
		ENV-SOP-MIN4-0178	MM4, NBH	57	PASI-M
10652169004	MEWI-S-HA31-3.5-4.5 FT-0-23050	ASTM D2974	JDL	1	PASI-M
		ENV-SOP-MIN4-0178	MM4, NBH	57	PASI-M
10652169005	MEWI-S-HA31-8.5-9.5 FT-0-23050	ASTM D2974	JDL	1	PASI-M
		ENV-SOP-MIN4-0178	MM4, NBH	57	PASI-M
10652169006	MEWI-S-HA31-8.5-9.5 FT-DB-2305	ASTM D2974	JDL	1	PASI-M
		ENV-SOP-MIN4-0178	MM4, NBH	57	PASI-M
10652169007	MEWI-S-HA32-4-5 FT-0-230505	ASTM D2974	JDL	1	PASI-M
		ENV-SOP-MIN4-0178	MM4, NBH	57	PASI-M
10652169008	MEWI-S-HA32-8.5-9.5 FT-0-23050	ASTM D2974	JDL	1	PASI-M
		ENV-SOP-MIN4-0178	MM4, NBH	57	PASI-M
10652169009	MEWI-S-HA33-4-5 FT-0-230505	ASTM D2974	JDL	1	PASI-M
		ENV-SOP-MIN4-0178	MM4, NBH	57	PASI-M
10652169010	MEWI-S-HA33-8.5-9.5 FT-0-23050	ASTM D2974	JDL	1	PASI-M
		ENV-SOP-MIN4-0178	MM4, NBH	57	PASI-M
10652169011	MEWI-S-SB28-24-25 FT-0-230504	ASTM D2974	JDL	1	PASI-M
		ENV-SOP-MIN4-0178	NBH	57	PASI-M
10652169012	MEWI-S-SB28-29-30 FT-0-230504	ASTM D2974	JDL	1	PASI-M
		ENV-SOP-MIN4-0178	NBH	57	PASI-M
10652169013	MEWI-S-SB29-24-25 FT-0-230504	ASTM D2974	JDL	1	PASI-M
		ENV-SOP-MIN4-0178	NBH	57	PASI-M
10652169014	MEWI-S-SB29-29-30 FT-0-230504	ASTM D2974	JDL	1	PASI-M
		ENV-SOP-MIN4-0178	NBH	57	PASI-M
10652169015	MEWI-S-SB30-4.5-5.5 FT-0-23050	ASTM D2974	JDL	1	PASI-M
		ENV-SOP-MIN4-0178	MM4, NBH	57	PASI-M
10652169016	MEWI-S-SB31-9-10 FT-0-230502	ASTM D2974	JDL	1	PASI-M
		ENV-SOP-MIN4-0178	NBH	57	PASI-M
10652169017	MEWI-S-SB30-12.5-13.5 FT-0-230	ASTM D2974	JDL	1	PASI-M
		ENV-SOP-MIN4-0178	MM4	57	PASI-M
10652169018	MEWI-S-SB30-19-20 FT-0-230503	ASTM D2974	JDL	1	PASI-M
		ENV-SOP-MIN4-0178	MM4	57	PASI-M
10652169019	MEWI-S-SB31-1-2 FT-0-230502	ASTM D2974	JDL	1	PASI-M

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: E23-0254 3M Menomonie
Pace Project No.: 10652169

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10652169020	MEWI-S-SB31-9-10 FT-DB-230502	ENV-SOP-MIN4-0178	NBH	57	PASI-M
		ASTM D2974	JDL	1	PASI-M
10652169021	MEWI-S-SB32-1-2 FT-0-230503	ENV-SOP-MIN4-0178	NBH	57	PASI-M
		ASTM D2974	JDL	1	PASI-M
10652169022	MEWI-S-SB32-9-10 FT-0-230503	ENV-SOP-MIN4-0178	NBH	57	PASI-M
		ASTM D2974	JDL	1	PASI-M
10652169023	MEWI-S-MW2-4.5-5.5 FT-0-230504	ENV-SOP-MIN4-0178	NBH	57	PASI-M
		ASTM D2974	JDL	1	PASI-M
10652169024	MEWI-S-MW2-11.5-12.5 FT-0-2305	ENV-SOP-MIN4-0178	NBH	57	PASI-M
		ASTM D2974	JDL	1	PASI-M
10652169025	MEWI-S-MW2-59-60 FT-0-230504	ENV-SOP-MIN4-0178	MM4, NBH	57	PASI-M
		ASTM D2974	JDL	1	PASI-M
10652169026	MEWI-S-MW3-4.5-5.5 FT-0-230503	ENV-SOP-MIN4-0178	NBH	57	PASI-M
		ASTM D2974	JDL	1	PASI-M
10652169027	MEWI-S-MW3-12.5-13.5 FT-0-2305	ENV-SOP-MIN4-0178	MM4	57	PASI-M
		ASTM D2974	JDL	1	PASI-M
10652169028	MEWI-S-MW4-63-64 FT-0-230501	ENV-SOP-MIN4-0178	MM4	57	PASI-M
		ASTM D2974	JDL	1	PASI-M
10652169029	MEWI-S-MW5-64-65 FT-0-230501	ENV-SOP-MIN4-0178	NBH	57	PASI-M
		ASTM D2974	JDL	1	PASI-M
10652169030	MEWI-S-MW6-2-3 FT-0-230503	ENV-SOP-MIN4-0178	NBH	57	PASI-M
		ASTM D2974	JDL	1	PASI-M
10652169031	MEWI-S-MW6-58-59 FT-0-230503	ENV-SOP-MIN4-0178	NBH	57	PASI-M
		ASTM D2974	JDL	1	PASI-M
10652169032	MEWI-S-MW7-2-3 FT-0-230502	ENV-SOP-MIN4-0178	NBH	57	PASI-M
		ASTM D2974	JDL	1	PASI-M
10652169033	MEWI-S-MW7-58-59 FT-0-230502	ENV-SOP-MIN4-0178	NBH	57	PASI-M
		ASTM D2974	JDL	1	PASI-M
10652169034	MEWI-W-FB1-FB-230501	ENV-SOP-MIN4-0178	NBH	57	PASI-M
10652169035	MEWI-W-FB2-FB-230502	ENV-SOP-MIN4-0178	NBH	57	PASI-M
10652169036	MEWI-W-FB3-FB-230504	ENV-SOP-MIN4-0178	NBH	57	PASI-M
10652169037	MEWI-W-FB4-FB-230505	ENV-SOP-MIN4-0178	NBH	57	PASI-M
10652169038	MEWI-W-EB1-EB-230502	ENV-SOP-MIN4-0178	NBH	57	PASI-M
10652169039	MEWI-W-EB2-EB-230503	ENV-SOP-MIN4-0178	NBH	57	PASI-M
10652169040	MEWI-W-EB3-EB-230504	ENV-SOP-MIN4-0178	NBH	57	PASI-M
10652169041	MEWI-W-EB4-EB-230505	ENV-SOP-MIN4-0178	NBH	57	PASI-M

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10652169042	MEWI-S-MW3-59-60 FT-0-230503	ASTM D2974	JDL	1	PASI-M
		ENV-SOP-MIN4-0178	MM4, NBH	57	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: E23-0254 3M Menomonie
Pace Project No.: 10652169

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10652169001 MEWI-S-HA30-5-6 FT-0-230505						
ASTM D2974	Percent Moisture	7.7	%	0.10	05/25/23 14:00	N2
ENV-SOP-MIN4-0178	Perfluorodecanoic acid	0.12	ug/kg	0.11	06/06/23 17:42	N2
ENV-SOP-MIN4-0178	PFDS	0.39	ug/kg	0.10	06/06/23 17:42	N2
ENV-SOP-MIN4-0178	PFDoS	0.25	ug/kg	0.10	06/06/23 17:42	N2
ENV-SOP-MIN4-0178	PFHpS	1.6	ug/kg	0.10	06/06/23 17:42	N2
ENV-SOP-MIN4-0178	PFNS	8.5	ug/kg	1.0	05/22/23 18:19	N2
ENV-SOP-MIN4-0178	PFOSA	1.5	ug/kg	0.11	06/06/23 17:42	N2
ENV-SOP-MIN4-0178	PFPeS	0.33	ug/kg	0.10	06/06/23 17:42	N2
ENV-SOP-MIN4-0178	Perfluoroheptanoic acid	0.12	ug/kg	0.11	06/06/23 17:42	N2
ENV-SOP-MIN4-0178	Perfluorohexanesulfonic acid	12.3	ug/kg	0.98	05/22/23 18:19	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	725	ug/kg	10.1	05/31/23 12:52	N2
ENV-SOP-MIN4-0178	Perfluorooctanoic acid	0.41	ug/kg	0.11	06/06/23 17:42	N2
10652169002 MEWI-S-HA30-9-10 FT-0-230505						
ASTM D2974	Percent Moisture	6.8	%	0.10	05/25/23 14:00	N2
ENV-SOP-MIN4-0178	PFNS	3.3	ug/kg	1.0	05/22/23 18:27	N2
ENV-SOP-MIN4-0178	Perfluorohexanesulfonic acid	3.7	ug/kg	0.96	05/22/23 18:27	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	640	ug/kg	9.8	05/31/23 12:59	N2
10652169003 MEWI-S-HA30-9-10 FT-DB-230505						
ASTM D2974	Percent Moisture	6.8	%	0.10	05/25/23 14:01	N2
ENV-SOP-MIN4-0178	PFNS	4.4	ug/kg	1.0	05/22/23 18:34	N2
ENV-SOP-MIN4-0178	Perfluorohexanesulfonic acid	4.7	ug/kg	0.94	05/22/23 18:34	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	755	ug/kg	9.6	05/31/23 13:07	N2
10652169004 MEWI-S-HA31-3.5-4.5 FT-0-23050						
ASTM D2974	Percent Moisture	10.0	%	0.10	05/25/23 14:01	N2
ENV-SOP-MIN4-0178	PFDS	3.6	ug/kg	1.1	05/22/23 18:41	N2
ENV-SOP-MIN4-0178	PFNS	6.3	ug/kg	1.1	05/22/23 18:41	N2
ENV-SOP-MIN4-0178	PFOSA	3.7	ug/kg	1.1	05/22/23 18:41	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	240	ug/kg	5.1	05/31/23 13:14	N2
10652169005 MEWI-S-HA31-8.5-9.5 FT-0-23050						
ASTM D2974	Percent Moisture	7.1	%	0.10	05/25/23 14:01	N2
ENV-SOP-MIN4-0178	PFNS	2.0	ug/kg	1.0	05/22/23 18:48	N2
ENV-SOP-MIN4-0178	Perfluorohexanesulfonic acid	2.6	ug/kg	0.96	05/22/23 18:48	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	646	ug/kg	9.8	05/31/23 13:21	N2
10652169006 MEWI-S-HA31-8.5-9.5 FT-DB-2305						
ASTM D2974	Percent Moisture	6.9	%	0.10	05/25/23 14:01	N2
ENV-SOP-MIN4-0178	Perfluorohexanesulfonic acid	1.9	ug/kg	0.94	05/22/23 18:55	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	357	ug/kg	4.8	05/31/23 13:28	N2
10652169007 MEWI-S-HA32-4-5 FT-0-230505						
ASTM D2974	Percent Moisture	7.7	%	0.10	05/25/23 14:01	N2
ENV-SOP-MIN4-0178	PFDS	2.4	ug/kg	1.0	05/22/23 19:03	N2
ENV-SOP-MIN4-0178	PFNS	4.1	ug/kg	1.0	05/22/23 19:03	N2
ENV-SOP-MIN4-0178	PFOSA	3.8	ug/kg	1.1	05/22/23 19:03	N2

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: E23-0254 3M Menomonie
Pace Project No.: 10652169

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10652169007	MEWI-S-HA32-4-5 FT-0-230505					
ENV-SOP-MIN4-0178	Perfluorohexanesulfonic acid	4.0	ug/kg	0.97	05/22/23 19:03	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	413	ug/kg	4.9	05/31/23 13:36	N2
10652169008	MEWI-S-HA32-8.5-9.5 FT-0-23050					
ASTM D2974	Percent Moisture	9.4	%	0.10	05/25/23 14:02	N2
ENV-SOP-MIN4-0178	PFNS	14.4	ug/kg	1.1	05/22/23 19:10	N2
ENV-SOP-MIN4-0178	PFOSA	1.1	ug/kg	1.1	05/22/23 19:10	N2
ENV-SOP-MIN4-0178	Perfluorohexanesulfonic acid	1.2	ug/kg	1.0	05/22/23 19:10	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	975	ug/kg	10.2	05/31/23 13:43	N2
10652169009	MEWI-S-HA33-4-5 FT-0-230505					
ASTM D2974	Percent Moisture	5.9	%	0.10	05/25/23 14:02	N2
ENV-SOP-MIN4-0178	PFDS	3.8	ug/kg	1.0	05/22/23 19:17	N2
ENV-SOP-MIN4-0178	PFHpS	1.7	ug/kg	0.98	05/22/23 19:17	N2
ENV-SOP-MIN4-0178	PFNS	9.6	ug/kg	0.99	05/22/23 19:17	N2
ENV-SOP-MIN4-0178	PFOSA	3.1	ug/kg	1.0	05/22/23 19:17	N2
ENV-SOP-MIN4-0178	Perfluorohexanesulfonic acid	5.0	ug/kg	0.94	05/22/23 19:17	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	929	ug/kg	19.1	05/31/23 13:50	N2
10652169010	MEWI-S-HA33-8.5-9.5 FT-0-23050					
ASTM D2974	Percent Moisture	9.4	%	0.10	05/25/23 14:02	N2
ENV-SOP-MIN4-0178	Perfluorohexanesulfonic acid	3.9	ug/kg	0.99	05/22/23 19:32	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	463	ug/kg	10.1	05/31/23 13:57	N2
10652169011	MEWI-S-SB28-24-25 FT-0-230504					
ASTM D2974	Percent Moisture	4.8	%	0.10	05/25/23 14:02	N2
ENV-SOP-MIN4-0178	Perfluorohexanesulfonic acid	0.11	ug/kg	0.094	06/06/23 16:51	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	1.0	ug/kg	0.096	06/06/23 16:51	N2
10652169012	MEWI-S-SB28-29-30 FT-0-230504					
ASTM D2974	Percent Moisture	3.7	%	0.10	05/25/23 14:03	N2
ENV-SOP-MIN4-0178	Perfluorohexanesulfonic acid	0.12	ug/kg	0.092	06/06/23 16:58	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	0.36	ug/kg	0.094	06/06/23 16:58	N2
10652169013	MEWI-S-SB29-24-25 FT-0-230504					
ASTM D2974	Percent Moisture	1.9	%	0.10	05/25/23 14:03	N2
ENV-SOP-MIN4-0178	Perfluorohexanesulfonic acid	1.0	ug/kg	0.090	06/06/23 17:06	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	0.57	ug/kg	0.091	06/06/23 17:06	N2
ENV-SOP-MIN4-0178	Perfluorooctanoic acid	0.11	ug/kg	0.098	06/06/23 17:06	N2
10652169014	MEWI-S-SB29-29-30 FT-0-230504					
ASTM D2974	Percent Moisture	2.5	%	0.10	05/25/23 14:03	N2
ENV-SOP-MIN4-0178	Perfluorohexanesulfonic acid	1.4	ug/kg	0.090	06/06/23 17:13	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	0.12	ug/kg	0.092	06/06/23 17:13	N2
10652169015	MEWI-S-SB30-4.5-5.5 FT-0-23050					
ASTM D2974	Percent Moisture	18.9	%	0.10	05/25/23 14:03	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	329	ug/kg	4.5	05/31/23 15:02	N2
10652169016	MEWI-S-SB31-9-10 FT-0-230502					
ASTM D2974	Percent Moisture	8.1	%	0.10	05/25/23 14:04	N2

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: E23-0254 3M Menomonie
Pace Project No.: 10652169

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10652169017	MEWI-S-SB30-12.5-13.5 FT-0-230					
ASTM D2974	Percent Moisture	6.5	%	0.10	05/25/23 14:04	N2
ENV-SOP-MIN4-0178	Perfluorohexanesulfonic acid	2.0	ug/kg	0.95	05/22/23 20:22	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	65.3	ug/kg	0.97	05/22/23 20:22	N2
ENV-SOP-MIN4-0178	Perfluorooctanoic acid	2.2	ug/kg	1.0	05/22/23 20:22	N2
10652169018	MEWI-S-SB30-19-20 FT-0-230503					
ASTM D2974	Percent Moisture	3.4	%	0.10	05/25/23 14:04	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	12.9	ug/kg	0.94	05/22/23 20:29	N2
10652169019	MEWI-S-SB31-1-2 FT-0-230502					
ASTM D2974	Percent Moisture	3.4	%	0.10	05/25/23 14:04	N2
10652169020	MEWI-S-SB31-9-10 FT-DB-230502					
ASTM D2974	Percent Moisture	8.8	%	0.10	05/25/23 14:04	N2
10652169021	MEWI-S-SB32-1-2 FT-0-230503					
ASTM D2974	Percent Moisture	3.9	%	0.10	05/25/23 15:39	N2
ENV-SOP-MIN4-0178	Perfluorohexanesulfonic acid	0.61	ug/kg	0.094	06/06/23 12:54	N2
ENV-SOP-MIN4-0178	Perfluorooctanoic acid	0.19	ug/kg	0.10	06/06/23 12:54	N2
10652169022	MEWI-S-SB32-9-10 FT-0-230503					
ASTM D2974	Percent Moisture	6.6	%	0.10	05/25/23 15:40	N2
10652169023	MEWI-S-MW2-4.5-5.5 FT-0-230504					
ASTM D2974	Percent Moisture	5.5	%	0.10	05/25/23 15:40	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	2.5	ug/kg	0.096	06/06/23 14:12	N2
10652169024	MEWI-S-MW2-11.5-12.5 FT-0-2305					
ASTM D2974	Percent Moisture	11.6	%	0.10	05/25/23 15:40	N2
ENV-SOP-MIN4-0178	PFHpS	0.54	ug/kg	0.11	06/06/23 14:19	N2
ENV-SOP-MIN4-0178	Perfluorohexanesulfonic acid	0.21	ug/kg	0.10	06/06/23 14:19	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	104	ug/kg	1.0	05/25/23 15:05	N2
10652169025	MEWI-S-MW2-59-60 FT-0-230504					
ASTM D2974	Percent Moisture	7.5	%	0.10	05/25/23 15:40	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	4.7	ug/kg	0.097	06/06/23 14:26	N2
10652169026	MEWI-S-MW3-4.5-5.5 FT-0-230503					
ASTM D2974	Percent Moisture	6.9	%	0.10	05/25/23 15:40	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	11.3	ug/kg	0.98	05/25/23 15:26	N2
10652169027	MEWI-S-MW3-12.5-13.5 FT-0-2305					
ASTM D2974	Percent Moisture	9.2	%	0.10	05/25/23 15:41	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	17.3	ug/kg	1.0	05/25/23 15:33	N2
10652169028	MEWI-S-MW4-63-64 FT-0-230501					
ASTM D2974	Percent Moisture	21.4	%	0.10	05/25/23 15:41	N2

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SUMMARY OF DETECTION

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10652169029	MEWI-S-MW5-64-65 FT-0-230501					
ASTM D2974	Percent Moisture	7.3	%	0.10	05/25/23 15:41	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	0.24	ug/kg	0.10	06/06/23 15:16	N2
10652169030	MEWI-S-MW6-2-3 FT-0-230503					
ASTM D2974	Percent Moisture	8.2	%	0.10	05/25/23 15:41	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	0.17	ug/kg	0.098	06/06/23 15:23	N2
10652169031	MEWI-S-MW6-58-59 FT-0-230503					
ASTM D2974	Percent Moisture	3.7	%	0.10	05/25/23 15:42	N2
10652169032	MEWI-S-MW7-2-3 FT-0-230502					
ASTM D2974	Percent Moisture	7.5	%	0.10	05/25/23 15:42	N2
ENV-SOP-MIN4-0178	PFBA	0.15	ug/kg	0.11	06/06/23 16:16	N2
10652169033	MEWI-S-MW7-58-59 FT-0-230502					
ASTM D2974	Percent Moisture	3.9	%	0.10	05/25/23 15:42	N2
10652169041	MEWI-W-EB4-EB-230505					
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	0.0056	ug/L	0.0019	05/19/23 15:31	N2
10652169042	MEWI-S-MW3-59-60 FT-0-230503					
ASTM D2974	Percent Moisture	3.0	%	0.10	05/25/23 15:42	N2
ENV-SOP-MIN4-0178	PFHpS	0.19	ug/kg	0.095	06/06/23 16:44	N2
ENV-SOP-MIN4-0178	PFPeS	0.10	ug/kg	0.094	06/06/23 16:44	N2
ENV-SOP-MIN4-0178	Perfluorohexanesulfonic acid	12.8	ug/kg	0.91	05/25/23 16:24	N2
ENV-SOP-MIN4-0178	Perfluorooctanesulfonic acid	4.3	ug/kg	0.093	06/06/23 16:44	N2
ENV-SOP-MIN4-0178	Perfluorooctanoic acid	0.53	ug/kg	0.10	06/06/23 16:44	N2

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID NPW

Client: 3M Environmental

Date: June 13, 2023

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

QC Batch: 880080

S0: Surrogate recovery outside laboratory control limits.

- MEWI-W-EB1-EB-230502 (Lab ID: 10652169038)
 - d3-NMeFOSA (S)
 - d5-NEtFOSA (S)
- MEWI-W-EB2-EB-230503 (Lab ID: 10652169039)
 - d3-NMeFOSA (S)
 - d5-NEtFOSA (S)
- MEWI-W-EB3-EB-230504 (Lab ID: 10652169040)
 - d3-NMeFOSA (S)
 - d5-NEtFOSA (S)
- MEWI-W-EB4-EB-230505 (Lab ID: 10652169041)
 - 13C28:2FTS (S)
- MS (Lab ID: 4644211)
 - d3-NMeFOSA (S)
 - d5-NEtFOSA (S)

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

- MEWI-W-EB1-EB-230502 (Lab ID: 10652169038)
 - 13C28:2FTS (S)
- MEWI-W-EB2-EB-230503 (Lab ID: 10652169039)
 - 13C26:2FTS (S)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID NPW

Client: 3M Environmental

Date: June 13, 2023

QC Batch: 880080

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

- 13C28:2FTS (S)
- MEWI-W-EB3-EB-230504 (Lab ID: 10652169040)
 - 13C28:2FTS (S)
- MEWI-W-FB1-FB-230501 (Lab ID: 10652169034)
 - 13C28:2FTS (S)
- MEWI-W-FB2-FB-230502 (Lab ID: 10652169035)
 - 13C28:2FTS (S)
- MEWI-W-FB3-FB-230504 (Lab ID: 10652169036)
 - 13C28:2FTS (S)
- MEWI-W-FB4-FB-230505 (Lab ID: 10652169037)
 - 13C28:2FTS (S)

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- DUP (Lab ID: 4644212)
 - d3-NMeFOSA (S)
 - d5-NEtFOSA (S)

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 880080

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.

- BLANK (Lab ID: 4638791)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID NPW

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 880080

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.

- BLANK (Lab ID: 4638791)
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- DUP (Lab ID: 4644212)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID NPW

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 880080

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.

- DUP (Lab ID: 4644212)
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- LCS (Lab ID: 4638792)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID NPW

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 880080

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.

- LCS (Lab ID: 4638792)
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- LCSD (Lab ID: 4644210)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID NPW

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 880080

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.

- LCSD (Lab ID: 4644210)
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-W-EB1-EB-230502 (Lab ID: 10652169038)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-W-EB2-EB-230503 (Lab ID: 10652169039)
 - 11Cl-PF3OUdS
 - 4:2 FTS

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID NPW

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 880080

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.

- MEWI-W-EB2-EB-230503 (Lab ID: 10652169039)

- 6:2 FTS
- 8:2 FTS
- 9CI-PF3ONS
- ADONA
- HFPO-DA
- NEtFOSA
- NEtFOSAA
- NEtFOSE
- NMeFOSA
- NMeFOSAA
- NMeFOSE
- PFBA
- Perfluorobutanesulfonic acid
- Perfluorodecanoic acid
- PFDS
- Perfluorododecanoic acid
- PFDoS
- Perfluoroheptanoic acid
- PFHpS
- Perfluorohexanoic acid
- Perfluorohexanesulfonic acid
- Perfluorononanoic acid
- PFNS
- Perfluorooctanoic acid
- Perfluorooctanesulfonic acid
- PFOSA
- PFPeA
- PFPeS
- Perfluorotetradecanoic acid
- Perfluorotridecanoic acid
- Perfluoroundecanoic acid

- MEWI-W-EB3-EB-230504 (Lab ID: 10652169040)

- 11CI-PF3OUdS
- 4:2 FTS
- 6:2 FTS
- 8:2 FTS
- 9CI-PF3ONS
- ADONA
- HFPO-DA
- NEtFOSA
- NEtFOSAA

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID NPW

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 880080

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.

- MEWI-W-EB3-EB-230504 (Lab ID: 10652169040)

- NEtFOSE
- NMeFOSA
- NMeFOSAA
- NMeFOSE
- PFBA
- Perfluorobutanesulfonic acid
- Perfluorodecanoic acid
- PFDS
- Perfluorododecanoic acid
- PFDoS
- Perfluoroheptanoic acid
- PFHpS
- Perfluorohexanoic acid
- Perfluorohexanesulfonic acid
- Perfluorononanoic acid
- PFNS
- Perfluorooctanoic acid
- Perfluorooctanesulfonic acid
- PFOSA
- PFPeA
- PFPeS
- Perfluorotetradecanoic acid
- Perfluorotridecanoic acid
- Perfluoroundecanoic acid

- MEWI-W-EB4-EB-230505 (Lab ID: 10652169041)

- 11Cl-PF3OUdS
- 4:2 FTS
- 6:2 FTS
- 8:2 FTS
- 9Cl-PF3ONS
- ADONA
- HFPO-DA
- NEtFOSA
- NEtFOSAA
- NEtFOSE
- NMeFOSA
- NMeFOSAA
- NMeFOSE
- PFBA
- Perfluorobutanesulfonic acid
- Perfluorodecanoic acid

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID NPW

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 880080

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.

• MEWI-W-EB4-EB-230505 (Lab ID: 10652169041)

- PFDS
- Perfluorododecanoic acid
- PFDoS
- Perfluoroheptanoic acid
- PFHpS
- Perfluorohexanoic acid
- Perfluorohexanesulfonic acid
- Perfluorononanoic acid
- PFNS
- Perfluorooctanoic acid
- Perfluorooctanesulfonic acid
- PFOSA
- PFPeA
- PFPeS
- Perfluorotetradecanoic acid
- Perfluorotridecanoic acid
- Perfluoroundecanoic acid

• MEWI-W-FB1-FB-230501 (Lab ID: 10652169034)

- 11Cl-PF3OUdS
- 4:2 FTS
- 6:2 FTS
- 8:2 FTS
- 9Cl-PF3ONS
- ADONA
- HFPO-DA
- NEtFOSA
- NEtFOSAA
- NEtFOSE
- NMeFOSA
- NMeFOSAA
- NMeFOSE
- PFBA
- Perfluorobutanesulfonic acid
- Perfluorodecanoic acid
- PFDS
- Perfluorododecanoic acid
- PFDoS
- Perfluoroheptanoic acid
- PFHpS
- Perfluorohexanoic acid
- Perfluorohexanesulfonic acid

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID NPW

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 880080

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.

- MEWI-W-FB1-FB-230501 (Lab ID: 10652169034)
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-W-FB2-FB-230502 (Lab ID: 10652169035)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID NPW

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 880080

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.

- MEWI-W-FB2-FB-230502 (Lab ID: 10652169035)
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-W-FB3-FB-230504 (Lab ID: 10652169036)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-W-FB4-FB-230505 (Lab ID: 10652169037)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID NPW

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 880080

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.

- MEWI-W-FB4-FB-230505 (Lab ID: 10652169037)

- 8:2 FTS
- 9Cl-PF3ONS
- ADONA
- HFPO-DA
- NEtFOSA
- NEtFOSAA
- NEtFOSE
- NMeFOSA
- NMeFOSAA
- NMeFOSE
- PFBA
- Perfluorobutanesulfonic acid
- Perfluorodecanoic acid
- PFDS
- Perfluorododecanoic acid
- PFDoS
- Perfluoroheptanoic acid
- PFHpS
- Perfluorohexanoic acid
- Perfluorohexanesulfonic acid
- Perfluorononanoic acid
- PFNS
- Perfluorooctanoic acid
- Perfluorooctanesulfonic acid
- PFOSA
- PFPeA
- PFPeS
- Perfluorotetradecanoic acid
- Perfluorotridecanoic acid
- Perfluoroundecanoic acid

- MS (Lab ID: 4644211)

- 11Cl-PF3OUdS
- 4:2 FTS
- 6:2 FTS
- 8:2 FTS
- 9Cl-PF3ONS
- ADONA
- HFPO-DA
- NEtFOSA
- NEtFOSAA
- NEtFOSE

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID NPW

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 880080

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.

- MS (Lab ID: 4644211)
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID SL

Client: 3M Environmental

Date: June 13, 2023

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

QC Batch: 881401

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- MEWI-S-HA30-9-10 FT-0-230505 (Lab ID: 10652169002)
 - 13C2-PFDoA (S)
 - 13C2-PFTA (S)
 - 13C6-PFDA (S)
 - 13C7-PFUdA (S)
 - 13C8-PFOA (S)
 - 13C9-PFNA (S)
 - d3-MeFOSAA (S)
 - d5-EtFOSAA (S)
- MEWI-S-HA30-9-10 FT-DB-230505 (Lab ID: 10652169003)
 - 13C2-PFDoA (S)
 - 13C2-PFTA (S)
 - 13C6-PFDA (S)
 - 13C7-PFUdA (S)
 - 13C9-PFNA (S)
- MEWI-S-HA31-3.5-4.5 FT-0-23050 (Lab ID: 10652169004)
 - 13C6-PFDA (S)
 - 13C7-PFUdA (S)
 - 13C9-PFNA (S)
- MEWI-S-HA31-8.5-9.5 FT-0-23050 (Lab ID: 10652169005)

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID SL

Client: 3M Environmental

Date: June 13, 2023

QC Batch: 881401

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- 13C2-PFDoA (S)
- 13C2-PFTA (S)
- 13C28:2FTS (S)
- 13C6-PFDA (S)
- 13C7-PFUdA (S)
- 13C8-PFOA (S)
- 13C9-PFNA (S)
- d3-MeFOSAA (S)
- MEWI-S-HA31-8.5-9.5 FT-DB-2305 (Lab ID: 10652169006)
 - 13C2-PFTA (S)
 - 13C6-PFDA (S)
 - 13C7-PFUdA (S)
 - 13C9-PFNA (S)
- MEWI-S-HA33-8.5-9.5 FT-0-23050 (Lab ID: 10652169010)
 - 13C28:2FTS (S)
- MEWI-S-SB30-12.5-13.5 FT-0-230 (Lab ID: 10652169017)
 - 13C8-PFOS (S)
 - 13C9-PFNA (S)
- MEWI-S-SB30-19-20 FT-0-230503 (Lab ID: 10652169018)
 - 13C9-PFNA (S)

QC Batch: 881983

S0: Surrogate recovery outside laboratory control limits.

- MEWI-S-MW4-63-64 FT-0-230501 (Lab ID: 10652169028)
 - d5-NEtFOSA (S)

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- MEWI-S-MW3-12.5-13.5 FT-0-2305 (Lab ID: 10652169027)
 - 13C24:2FTS (S)
 - 13C26:2FTS (S)
- MEWI-S-MW3-4.5-5.5 FT-0-230503 (Lab ID: 10652169026)
 - 13C24:2FTS (S)
 - 13C26:2FTS (S)

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID SL

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 881401

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.

- BLANK (Lab ID: 4644807)
 - 11CI-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9CI-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- LCS (Lab ID: 4644808)
 - 11CI-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9CI-PF3ONS
 - ADONA
 - HFPO-DA

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID SL

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 881401

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.

- LCS (Lab ID: 4644808)
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-HA30-5-6 FT-0-230505 (Lab ID: 10652169001)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID SL

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 881401

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.

- MEWI-S-HA30-5-6 FT-0-230505 (Lab ID: 10652169001)
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-HA30-9-10 FT-0-230505 (Lab ID: 10652169002)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID SL

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 881401

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.

- MEWI-S-HA30-9-10 FT-0-230505 (Lab ID: 10652169002)
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-HA30-9-10 FT-DB-230505 (Lab ID: 10652169003)
 - 11CI-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9CI-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID SL

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 881401

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.

- MEWI-S-HA30-9-10 FT-DB-230505 (Lab ID: 10652169003)
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-HA31-3.5-4.5 FT-0-23050 (Lab ID: 10652169004)
 - 11CI-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9CI-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-HA31-8.5-9.5 FT-0-23050 (Lab ID: 10652169005)
 - 11CI-PF3OUdS

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID SL

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 881401

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.

- MEWI-S-HA31-8.5-9.5 FT-0-23050 (Lab ID: 10652169005)
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9CI-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-HA31-8.5-9.5 FT-DB-2305 (Lab ID: 10652169006)
 - 11CI-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9CI-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

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Method: ENV-SOP-MIN4-0178

Description: WI ID SL

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 881401

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.

- MEWI-S-HA31-8.5-9.5 FT-DB-2305 (Lab ID: 10652169006)
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-HA32-4-5 FT-0-230505 (Lab ID: 10652169007)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID SL

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 881401

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.

- MEWI-S-HA32-4-5 FT-0-230505 (Lab ID: 10652169007)
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-HA32-8.5-9.5 FT-0-23050 (Lab ID: 10652169008)
 - 11CI-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9CI-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID SL

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 881401

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.

- MEWI-S-HA32-8.5-9.5 FT-0-23050 (Lab ID: 10652169008)
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-HA33-4-5 FT-0-230505 (Lab ID: 10652169009)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID SL

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 881401

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.

- MEWI-S-HA33-4-5 FT-0-230505 (Lab ID: 10652169009)
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-HA33-8.5-9.5 FT-0-23050 (Lab ID: 10652169010)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-SB28-24-25 FT-0-230504 (Lab ID: 10652169011)
 - 11Cl-PF3OUdS
 - 4:2 FTS

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID SL

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 881401

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.

- MEWI-S-SB28-24-25 FT-0-230504 (Lab ID: 10652169011)
 - 6:2 FTS
 - 8:2 FTS
 - 9CI-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-SB28-29-30 FT-0-230504 (Lab ID: 10652169012)
 - 11CI-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9CI-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID SL

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 881401

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.

- MEWI-S-SB28-29-30 FT-0-230504 (Lab ID: 10652169012)
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-SB29-24-25 FT-0-230504 (Lab ID: 10652169013)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

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Method: ENV-SOP-MIN4-0178

Description: WI ID SL

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 881401

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.

- MEWI-S-SB29-24-25 FT-0-230504 (Lab ID: 10652169013)
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-SB29-29-30 FT-0-230504 (Lab ID: 10652169014)
 - 11CI-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9CI-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

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Description: WI ID SL

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 881401

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.

- MEWI-S-SB29-29-30 FT-0-230504 (Lab ID: 10652169014)
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-SB30-12.5-13.5 FT-0-230 (Lab ID: 10652169017)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

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Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

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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.

- MEWI-S-SB30-12.5-13.5 FT-0-230 (Lab ID: 10652169017)
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-SB30-19-20 FT-0-230503 (Lab ID: 10652169018)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-SB30-4.5-5.5 FT-0-23050 (Lab ID: 10652169015)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID SL

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 881401

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.

- MEWI-S-SB30-4.5-5.5 FT-0-23050 (Lab ID: 10652169015)
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-SB31-1-2 FT-0-230502 (Lab ID: 10652169019)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID SL

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 881401

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.

- MEWI-S-SB31-1-2 FT-0-230502 (Lab ID: 10652169019)
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-SB31-9-10 FT-0-230502 (Lab ID: 10652169016)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID SL

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 881401

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.

• MEWI-S-SB31-9-10 FT-0-230502 (Lab ID: 10652169016)

- Perfluorododecanoic acid
- PFDoS
- Perfluoroheptanoic acid
- PFHpS
- Perfluorohexanoic acid
- Perfluorohexanesulfonic acid
- Perfluorononanoic acid
- PFNS
- Perfluorooctanoic acid
- Perfluorooctanesulfonic acid
- PFOSA
- PFPeA
- PFPeS
- Perfluorotetradecanoic acid
- Perfluorotridecanoic acid
- Perfluoroundecanoic acid

• MS (Lab ID: 4645248)

- 11Cl-PF3OUdS
- 4:2 FTS
- 6:2 FTS
- 8:2 FTS
- 9Cl-PF3ONS
- ADONA
- HFPO-DA
- NEtFOSA
- NEtFOSAA
- NEtFOSE
- NMeFOSA
- NMeFOSAA
- NMeFOSE
- PFBA
- Perfluorobutanesulfonic acid
- Perfluorodecanoic acid
- PFDS
- Perfluorododecanoic acid
- PFDoS
- Perfluoroheptanoic acid
- PFHpS
- Perfluorohexanoic acid
- Perfluorohexanesulfonic acid
- Perfluorononanoic acid

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID SL

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 881401

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.

- MS (Lab ID: 4645248)
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MSD (Lab ID: 4645249)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID SL

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 881401

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.

- MSD (Lab ID: 4645249)
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid

QC Batch: 881983

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.

- BLANK (Lab ID: 4647589)
 - 11CI-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9CI-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID SL

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 881983

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.

- LCS (Lab ID: 4647590)
 - 11CI-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9CI-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-MW2-11.5-12.5 FT-0-2305 (Lab ID: 10652169024)
 - 11CI-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9CI-PF3ONS
 - ADONA
 - HFPO-DA

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

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Description: WI ID SL

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 881983

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.

- MEWI-S-MW2-11.5-12.5 FT-0-2305 (Lab ID: 10652169024)
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-MW2-4.5-5.5 FT-0-230504 (Lab ID: 10652169023)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA

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PROJECT NARRATIVE

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Analyte Comments:

QC Batch: 881983

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.

- MEWI-S-MW2-4.5-5.5 FT-0-230504 (Lab ID: 10652169023)
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-MW2-59-60 FT-0-230504 (Lab ID: 10652169025)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID SL

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 881983

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.

- MEWI-S-MW2-59-60 FT-0-230504 (Lab ID: 10652169025)
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-MW3-12.5-13.5 FT-0-2305 (Lab ID: 10652169027)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA

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- MEWI-S-MW3-12.5-13.5 FT-0-2305 (Lab ID: 10652169027)
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-MW3-4.5-5.5 FT-0-230503 (Lab ID: 10652169026)
 - 11CI-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9CI-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-MW3-59-60 FT-0-230503 (Lab ID: 10652169042)
 - 11CI-PF3OUdS

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- MEWI-S-MW3-59-60 FT-0-230503 (Lab ID: 10652169042)
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9CI-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-MW4-63-64 FT-0-230501 (Lab ID: 10652169028)
 - 11CI-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9CI-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA

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PROJECT NARRATIVE

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- MEWI-S-MW4-63-64 FT-0-230501 (Lab ID: 10652169028)
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-MW5-64-65 FT-0-230501 (Lab ID: 10652169029)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid

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PROJECT NARRATIVE

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Method: ENV-SOP-MIN4-0178

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Date: June 13, 2023

Analyte Comments:

QC Batch: 881983

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- MEWI-S-MW5-64-65 FT-0-230501 (Lab ID: 10652169029)
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-MW6-2-3 FT-0-230503 (Lab ID: 10652169030)
 - 11CI-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9CI-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid

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Description: WI ID SL

Client: 3M Environmental

Date: June 13, 2023

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- MEWI-S-MW6-2-3 FT-0-230503 (Lab ID: 10652169030)
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-MW6-58-59 FT-0-230503 (Lab ID: 10652169031)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA

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PROJECT NARRATIVE

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Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

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- MEWI-S-MW6-58-59 FT-0-230503 (Lab ID: 10652169031)
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-MW7-2-3 FT-0-230502 (Lab ID: 10652169032)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-MW7-58-59 FT-0-230502 (Lab ID: 10652169033)
 - 11Cl-PF3OUdS
 - 4:2 FTS

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Method: ENV-SOP-MIN4-0178

Description: WI ID SL

Client: 3M Environmental

Date: June 13, 2023

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- MEWI-S-MW7-58-59 FT-0-230502 (Lab ID: 10652169033)
 - 6:2 FTS
 - 8:2 FTS
 - 9CI-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-SB31-9-10 FT-DB-230502 (Lab ID: 10652169020)
 - 11CI-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9CI-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA

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PROJECT NARRATIVE

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Method: ENV-SOP-MIN4-0178

Description: WI ID SL

Client: 3M Environmental

Date: June 13, 2023

Analyte Comments:

QC Batch: 881983

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- MEWI-S-SB31-9-10 FT-DB-230502 (Lab ID: 10652169020)
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-SB32-1-2 FT-0-230503 (Lab ID: 10652169021)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid

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PROJECT NARRATIVE

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Date: June 13, 2023

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- MEWI-S-SB32-1-2 FT-0-230503 (Lab ID: 10652169021)
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MEWI-S-SB32-9-10 FT-0-230503 (Lab ID: 10652169022)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid

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Description: WI ID SL

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QC Batch: 881983

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- MEWI-S-SB32-9-10 FT-0-230503 (Lab ID: 10652169022)

- Perfluorononanoic acid
- PFNS
- Perfluorooctanoic acid
- Perfluorooctanesulfonic acid
- PFOSA
- PFPeA
- PFPeS
- Perfluorotetradecanoic acid
- Perfluorotridecanoic acid
- Perfluoroundecanoic acid

- MS (Lab ID: 4647698)

- 11Cl-PF3OUdS
- 4:2 FTS
- 6:2 FTS
- 8:2 FTS
- 9Cl-PF3ONS
- ADONA
- HFPO-DA
- NEtFOSA
- NEtFOSAA
- NEtFOSE
- NMeFOSA
- NMeFOSAA
- NMeFOSE
- PFBA
- Perfluorobutanesulfonic acid
- Perfluorodecanoic acid
- PFDS
- Perfluorododecanoic acid
- PFDoS
- Perfluoroheptanoic acid
- PFHpS
- Perfluorohexanoic acid
- Perfluorohexanesulfonic acid
- Perfluorononanoic acid
- PFNS
- Perfluorooctanoic acid
- Perfluorooctanesulfonic acid
- PFOSA
- PFPeA
- PFPeS

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Analyte Comments:

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- MS (Lab ID: 4647698)
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid
- MSD (Lab ID: 4647699)
 - 11Cl-PF3OUdS
 - 4:2 FTS
 - 6:2 FTS
 - 8:2 FTS
 - 9Cl-PF3ONS
 - ADONA
 - HFPO-DA
 - NEtFOSA
 - NEtFOSAA
 - NEtFOSE
 - NMeFOSA
 - NMeFOSAA
 - NMeFOSE
 - PFBA
 - Perfluorobutanesulfonic acid
 - Perfluorodecanoic acid
 - PFDS
 - Perfluorododecanoic acid
 - PFDoS
 - Perfluoroheptanoic acid
 - PFHpS
 - Perfluorohexanoic acid
 - Perfluorohexanesulfonic acid
 - Perfluorononanoic acid
 - PFNS
 - Perfluorooctanoic acid
 - Perfluorooctanesulfonic acid
 - PFOSA
 - PFPeA
 - PFPeS
 - Perfluorotetradecanoic acid
 - Perfluorotridecanoic acid
 - Perfluoroundecanoic acid

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

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-HA30-5-6 FT-0-230505 **Lab ID:** 10652169001 Collected: 05/05/23 08:40 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	7.7	%	0.10	1		05/25/23 14:00		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:42	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:42	757124-72-4	N2
6:2 FTS	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:42	27619-97-2	N2
8:2 FTS	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:42	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:42	756426-58-1	N2
ADONA	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:42	919005-14-4	N2
HFPO-DA	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:42	13252-13-6	N2
NEtFOSAA	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:42	2991-50-6	N2
NEtFOSA	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:42	4151-50-2	N2
NEtFOSE	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:42	1691-99-2	N2
NMeFOSAA	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:42	2355-31-9	N2
NMeFOSA	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:42	31506-32-8	N2
NMeFOSE	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:42	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.096	1	05/17/23 10:14	06/06/23 17:42	375-73-5	N2
Perfluorodecanoic acid	0.12	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:42	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:42	307-24-4	N2
PFBA	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:42	375-22-4	N2
PFDS	0.39	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:42	335-77-3	N2
PFDoS	0.25	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:42	79780-39-5	N2
PFHpS	1.6	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:42	375-92-8	N2
PFNS	8.5	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:19	68259-12-1	N2
PFOSA	1.5	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:42	754-91-6	N2
PFPeA	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:42	2706-90-3	N2
PFPeS	0.33	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:42	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:42	307-55-1	N2
Perfluoroheptanoic acid	0.12	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:42	375-85-9	N2
Perfluorohexanesulfonic acid	12.3	ug/kg	0.98	10	05/17/23 10:14	05/22/23 18:19	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:42	375-95-1	N2
Perfluorooctanesulfonic acid	725	ug/kg	10.1	100	05/17/23 10:14	05/31/23 12:52	1763-23-1	N2
Perfluorooctanoic acid	0.41	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:42	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:42	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:42	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:42	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	91	%	25-150	1	05/17/23 10:14	06/06/23 17:42		
13C2-PFTA (S)	85	%	25-150	1	05/17/23 10:14	06/06/23 17:42		
13C24:2FTS (S)	81	%	25-150	1	05/17/23 10:14	06/06/23 17:42		
13C26:2FTS (S)	94	%	25-150	1	05/17/23 10:14	06/06/23 17:42		
13C28:2FTS (S)	86	%	25-150	1	05/17/23 10:14	06/06/23 17:42		
13C3-PFBS (S)	90	%	25-150	1	05/17/23 10:14	06/06/23 17:42	375-73-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-HA30-5-6 FT-0-230505 **Lab ID:** 10652169001 Collected: 05/05/23 08:40 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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WI ID SL Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178
Pace Analytical Services - Minneapolis

Surrogates

13C3-PFHxS (S)	87	%	25-150	1	05/17/23 10:14	06/06/23 17:42	355-46-4	
13C3HFPO-DA (S)	98	%	25-150	1	05/17/23 10:14	06/06/23 17:42		
13C4-PFBA (S)	89	%	25-150	1	05/17/23 10:14	06/06/23 17:42	375-22-4	
13C4-PFHpA (S)	86	%	25-150	1	05/17/23 10:14	06/06/23 17:42	375-85-9	
13C5-PFHxA (S)	93	%	25-150	1	05/17/23 10:14	06/06/23 17:42	307-24-4	
13C5-PFPeA (S)	91	%	25-150	1	05/17/23 10:14	06/06/23 17:42	2706-90-3	
13C6-PFDA (S)	89	%	25-150	1	05/17/23 10:14	06/06/23 17:42	335-76-2	
13C7-PFUdA (S)	85	%	25-150	1	05/17/23 10:14	06/06/23 17:42	2058-94-8	
13C8-PFOA (S)	85	%	25-150	1	05/17/23 10:14	06/06/23 17:42	335-67-1	
13C8-PFOS (S)	28	%	25-150	1	05/17/23 10:14	06/06/23 17:42	1763-23-1	
13C8-PFOSA (S)	88	%	25-150	1	05/17/23 10:14	06/06/23 17:42	754-91-6	
13C9-PFNA (S)	27	%	25-150	1	05/17/23 10:14	06/06/23 17:42	375-95-1	
d3-MeFOSAA (S)	86	%	25-150	1	05/17/23 10:14	06/06/23 17:42	2355-31-9	
d3-NMeFOSA (S)	78	%	10-150	1	05/17/23 10:14	06/06/23 17:42	31506-32-8	
d5-EtFOSAA (S)	98	%	25-150	1	05/17/23 10:14	06/06/23 17:42	2991-50-6	
d5-NEtFOSA (S)	76	%	10-150	1	05/17/23 10:14	06/06/23 17:42	4151-50-2	
d7-NMeFOSE (S)	87	%	10-150	1	05/17/23 10:14	06/06/23 17:42	24448-09-7	
d9-NEtFOSE (S)	80	%	10-150	1	05/17/23 10:14	06/06/23 17:42	1691-99-2	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-HA30-9-10 FT-0-230505 **Lab ID:** 10652169002 Collected: 05/05/23 08:55 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	6.8	%	0.10	1		05/25/23 14:00		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.99	10	05/17/23 10:14	05/22/23 18:27	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.99	10	05/17/23 10:14	05/22/23 18:27	757124-72-4	N2
6:2 FTS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:27	27619-97-2	N2
8:2 FTS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:27	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.98	10	05/17/23 10:14	05/22/23 18:27	756426-58-1	N2
ADONA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:27	919005-14-4	N2
HFPO-DA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:27	13252-13-6	N2
NEtFOSAA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:27	2991-50-6	N2
NEtFOSA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:27	4151-50-2	N2
NEtFOSE	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:27	1691-99-2	N2
NMeFOSAA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:27	2355-31-9	N2
NMeFOSA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:27	31506-32-8	N2
NMeFOSE	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:27	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.94	10	05/17/23 10:14	05/22/23 18:27	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:27	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:27	307-24-4	N2
PFBA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:27	375-22-4	N2
PFDS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:27	335-77-3	N2
PFDoS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:27	79780-39-5	N2
PFHpS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:27	375-92-8	N2
PFNS	3.3	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:27	68259-12-1	N2
PFOSA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:27	754-91-6	N2
PFPeA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:27	2706-90-3	N2
PFPeS	ND	ug/kg	0.99	10	05/17/23 10:14	05/22/23 18:27	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:27	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:27	375-85-9	N2
Perfluorohexanesulfonic acid	3.7	ug/kg	0.96	10	05/17/23 10:14	05/22/23 18:27	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:27	375-95-1	N2
Perfluorooctanesulfonic acid	640	ug/kg	9.8	100	05/17/23 10:14	05/31/23 12:59	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:27	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:27	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:27	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:27	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	182	%	25-150	10	05/17/23 10:14	05/22/23 18:27		S4
13C2-PFTA (S)	174	%	25-150	10	05/17/23 10:14	05/22/23 18:27		S4
13C24:2FTS (S)	121	%	25-150	10	05/17/23 10:14	05/22/23 18:27		
13C26:2FTS (S)	115	%	25-150	10	05/17/23 10:14	05/22/23 18:27		
13C28:2FTS (S)	130	%	25-150	10	05/17/23 10:14	05/22/23 18:27		
13C3-PFBS (S)	119	%	25-150	10	05/17/23 10:14	05/22/23 18:27	375-73-5	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-HA30-9-10 FT-0-230505 **Lab ID:** 10652169002 Collected: 05/05/23 08:55 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	128	%	25-150	10	05/17/23 10:14	05/22/23 18:27	355-46-4	
13C3HFPO-DA (S)	134	%	25-150	10	05/17/23 10:14	05/22/23 18:27		
13C4-PFBA (S)	125	%	25-150	10	05/17/23 10:14	05/22/23 18:27	375-22-4	
13C4-PFHpA (S)	144	%	25-150	10	05/17/23 10:14	05/22/23 18:27	375-85-9	
13C5-PFHxA (S)	138	%	25-150	10	05/17/23 10:14	05/22/23 18:27	307-24-4	
13C5-PFPeA (S)	131	%	25-150	10	05/17/23 10:14	05/22/23 18:27	2706-90-3	
13C6-PFDA (S)	194	%	25-150	10	05/17/23 10:14	05/22/23 18:27	335-76-2	S4
13C7-PFUdA (S)	200	%	25-150	10	05/17/23 10:14	05/22/23 18:27	2058-94-8	S4
13C8-PFOA (S)	172	%	25-150	10	05/17/23 10:14	05/22/23 18:27	335-67-1	S4
13C8-PFOS (S)	126	%	25-150	10	05/17/23 10:14	05/22/23 18:27	1763-23-1	
13C8-PFOSA (S)	131	%	25-150	10	05/17/23 10:14	05/22/23 18:27	754-91-6	
13C9-PFNA (S)	171	%	25-150	10	05/17/23 10:14	05/22/23 18:27	375-95-1	S4
d3-MeFOSAA (S)	169	%	25-150	10	05/17/23 10:14	05/22/23 18:27	2355-31-9	S4
d3-NMeFOSA (S)	123	%	10-150	10	05/17/23 10:14	05/22/23 18:27	31506-32-8	
d5-EtFOSAA (S)	164	%	25-150	10	05/17/23 10:14	05/22/23 18:27	2991-50-6	S4
d5-NEtFOSA (S)	132	%	10-150	10	05/17/23 10:14	05/22/23 18:27	4151-50-2	
d7-NMeFOSE (S)	109	%	10-150	10	05/17/23 10:14	05/22/23 18:27	24448-09-7	
d9-NEtFOSE (S)	109	%	10-150	10	05/17/23 10:14	05/22/23 18:27	1691-99-2	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-HA30-9-10 FT-DB-230505 **Lab ID:** 10652169003 Collected: 05/05/23 09:00 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Pace Analytical Services - Minneapolis								
Percent Moisture	6.8	%	0.10	1		05/25/23 14:01		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.98	10	05/17/23 10:14	05/22/23 18:34	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.98	10	05/17/23 10:14	05/22/23 18:34	757124-72-4	N2
6:2 FTS	ND	ug/kg	0.99	10	05/17/23 10:14	05/22/23 18:34	27619-97-2	N2
8:2 FTS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:34	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.96	10	05/17/23 10:14	05/22/23 18:34	756426-58-1	N2
ADONA	ND	ug/kg	0.99	10	05/17/23 10:14	05/22/23 18:34	919005-14-4	N2
HFPO-DA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:34	13252-13-6	N2
NEtFOSAA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:34	2991-50-6	N2
NEtFOSA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:34	4151-50-2	N2
NEtFOSE	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:34	1691-99-2	N2
NMeFOSAA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:34	2355-31-9	N2
NMeFOSA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:34	31506-32-8	N2
NMeFOSE	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:34	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.92	10	05/17/23 10:14	05/22/23 18:34	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:34	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:34	307-24-4	N2
PFBA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:34	375-22-4	N2
PFDS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:34	335-77-3	N2
PFDoS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:34	79780-39-5	N2
PFHpS	ND	ug/kg	0.99	10	05/17/23 10:14	05/22/23 18:34	375-92-8	N2
PFNS	4.4	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:34	68259-12-1	N2
PFOSA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:34	754-91-6	N2
PFPeA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:34	2706-90-3	N2
PFPeS	ND	ug/kg	0.98	10	05/17/23 10:14	05/22/23 18:34	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:34	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:34	375-85-9	N2
Perfluorohexanesulfonic acid	4.7	ug/kg	0.94	10	05/17/23 10:14	05/22/23 18:34	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:34	375-95-1	N2
Perfluorooctanesulfonic acid	755	ug/kg	9.6	100	05/17/23 10:14	05/31/23 13:07	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:34	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:34	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:34	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:34	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	152	%	25-150	10	05/17/23 10:14	05/22/23 18:34		S4
13C2-PFTA (S)	155	%	25-150	10	05/17/23 10:14	05/22/23 18:34		S4
13C24:2FTS (S)	81	%	25-150	10	05/17/23 10:14	05/22/23 18:34		
13C26:2FTS (S)	99	%	25-150	10	05/17/23 10:14	05/22/23 18:34		
13C28:2FTS (S)	129	%	25-150	10	05/17/23 10:14	05/22/23 18:34		
13C3-PFBS (S)	106	%	25-150	10	05/17/23 10:14	05/22/23 18:34	375-73-5	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-HA30-9-10 FT-DB-230505 **Lab ID:** 10652169003 Collected: 05/05/23 09:00 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	108	%	25-150	10	05/17/23 10:14	05/22/23 18:34	355-46-4	
13C3HFPO-DA (S)	118	%	25-150	10	05/17/23 10:14	05/22/23 18:34		
13C4-PFBA (S)	103	%	25-150	10	05/17/23 10:14	05/22/23 18:34	375-22-4	
13C4-PFHpA (S)	129	%	25-150	10	05/17/23 10:14	05/22/23 18:34	375-85-9	
13C5-PFHxA (S)	119	%	25-150	10	05/17/23 10:14	05/22/23 18:34	307-24-4	
13C5-PFPeA (S)	113	%	25-150	10	05/17/23 10:14	05/22/23 18:34	2706-90-3	
13C6-PFDA (S)	172	%	25-150	10	05/17/23 10:14	05/22/23 18:34	335-76-2	S4
13C7-PFUdA (S)	175	%	25-150	10	05/17/23 10:14	05/22/23 18:34	2058-94-8	S4
13C8-PFOA (S)	142	%	25-150	10	05/17/23 10:14	05/22/23 18:34	335-67-1	
13C8-PFOS (S)	107	%	25-150	10	05/17/23 10:14	05/22/23 18:34	1763-23-1	
13C8-PFOSA (S)	120	%	25-150	10	05/17/23 10:14	05/22/23 18:34	754-91-6	
13C9-PFNA (S)	155	%	25-150	10	05/17/23 10:14	05/22/23 18:34	375-95-1	S4
d3-MeFOSAA (S)	140	%	25-150	10	05/17/23 10:14	05/22/23 18:34	2355-31-9	
d3-NMeFOSA (S)	82	%	10-150	10	05/17/23 10:14	05/22/23 18:34	31506-32-8	
d5-EtFOSAA (S)	136	%	25-150	10	05/17/23 10:14	05/22/23 18:34	2991-50-6	
d5-NEtFOSA (S)	86	%	10-150	10	05/17/23 10:14	05/22/23 18:34	4151-50-2	
d7-NMeFOSE (S)	104	%	10-150	10	05/17/23 10:14	05/22/23 18:34	24448-09-7	
d9-NEtFOSE (S)	86	%	10-150	10	05/17/23 10:14	05/22/23 18:34	1691-99-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-HA31-3.5-4.5 FT-0-23050 **Lab ID:** 10652169004 **Collected:** 05/05/23 09:10 **Received:** 05/05/23 15:18 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Pace Analytical Services - Minneapolis								
Percent Moisture	10.0	%	0.10	1		05/25/23 14:01		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:41	763051-92-9	N2
4:2 FTS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:41	757124-72-4	N2
6:2 FTS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:41	27619-97-2	N2
8:2 FTS	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:41	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:41	756426-58-1	N2
ADONA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:41	919005-14-4	N2
HFPO-DA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:41	13252-13-6	N2
NEtFOSAA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:41	2991-50-6	N2
NEtFOSA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:41	4151-50-2	N2
NEtFOSE	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:41	1691-99-2	N2
NMeFOSAA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:41	2355-31-9	N2
NMeFOSA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:41	31506-32-8	N2
NMeFOSE	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:41	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.98	10	05/17/23 10:14	05/22/23 18:41	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:41	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:41	307-24-4	N2
PFBA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:41	375-22-4	N2
PFDS	3.6	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:41	335-77-3	N2
PFDoS	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:41	79780-39-5	N2
PFHpS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:41	375-92-8	N2
PFNS	6.3	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:41	68259-12-1	N2
PFOSA	3.7	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:41	754-91-6	N2
PFPeA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:41	2706-90-3	N2
PFPeS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:41	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:41	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:41	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:41	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:41	375-95-1	N2
Perfluorooctanesulfonic acid	240	ug/kg	5.1	50	05/17/23 10:14	05/31/23 13:14	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:41	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:41	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:41	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:41	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	149	%	25-150	10	05/17/23 10:14	05/22/23 18:41		
13C2-PFTA (S)	143	%	25-150	10	05/17/23 10:14	05/22/23 18:41		
13C24:2FTS (S)	82	%	25-150	10	05/17/23 10:14	05/22/23 18:41		
13C26:2FTS (S)	116	%	25-150	10	05/17/23 10:14	05/22/23 18:41		
13C28:2FTS (S)	102	%	25-150	10	05/17/23 10:14	05/22/23 18:41		
13C3-PFBS (S)	105	%	25-150	10	05/17/23 10:14	05/22/23 18:41	375-73-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-HA31-3.5-4.5 FT-0-23050 **Lab ID:** 10652169004 Collected: 05/05/23 09:10 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	115	%	25-150	10	05/17/23 10:14	05/22/23 18:41	355-46-4	
13C3HFPO-DA (S)	116	%	25-150	10	05/17/23 10:14	05/22/23 18:41		
13C4-PFBA (S)	109	%	25-150	10	05/17/23 10:14	05/22/23 18:41	375-22-4	
13C4-PFHpA (S)	126	%	25-150	10	05/17/23 10:14	05/22/23 18:41	375-85-9	
13C5-PFHxA (S)	121	%	25-150	10	05/17/23 10:14	05/22/23 18:41	307-24-4	
13C5-PFPeA (S)	115	%	25-150	10	05/17/23 10:14	05/22/23 18:41	2706-90-3	
13C6-PFDA (S)	167	%	25-150	10	05/17/23 10:14	05/22/23 18:41	335-76-2	S4
13C7-PFUdA (S)	171	%	25-150	10	05/17/23 10:14	05/22/23 18:41	2058-94-8	S4
13C8-PFOA (S)	145	%	25-150	10	05/17/23 10:14	05/22/23 18:41	335-67-1	
13C8-PFOS (S)	119	%	25-150	10	05/17/23 10:14	05/22/23 18:41	1763-23-1	
13C8-PFOSA (S)	110	%	25-150	10	05/17/23 10:14	05/22/23 18:41	754-91-6	
13C9-PFNA (S)	157	%	25-150	10	05/17/23 10:14	05/22/23 18:41	375-95-1	S4
d3-MeFOSAA (S)	138	%	25-150	10	05/17/23 10:14	05/22/23 18:41	2355-31-9	
d3-NMeFOSA (S)	106	%	10-150	10	05/17/23 10:14	05/22/23 18:41	31506-32-8	
d5-EtFOSAA (S)	137	%	25-150	10	05/17/23 10:14	05/22/23 18:41	2991-50-6	
d5-NEtFOSA (S)	92	%	10-150	10	05/17/23 10:14	05/22/23 18:41	4151-50-2	
d7-NMeFOSE (S)	104	%	10-150	10	05/17/23 10:14	05/22/23 18:41	24448-09-7	
d9-NEtFOSE (S)	94	%	10-150	10	05/17/23 10:14	05/22/23 18:41	1691-99-2	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-HA31-8.5-9.5 FT-0-23050 **Lab ID:** 10652169005 Collected: 05/05/23 09:25 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	7.1	%	0.10	1		05/25/23 14:01		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.99	10	05/17/23 10:14	05/22/23 18:48	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.99	10	05/17/23 10:14	05/22/23 18:48	757124-72-4	N2
6:2 FTS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:48	27619-97-2	N2
8:2 FTS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:48	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.98	10	05/17/23 10:14	05/22/23 18:48	756426-58-1	N2
ADONA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:48	919005-14-4	N2
HFPO-DA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:48	13252-13-6	N2
NEtFOSAA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:48	2991-50-6	N2
NEtFOSA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:48	4151-50-2	N2
NEtFOSE	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:48	1691-99-2	N2
NMeFOSAA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:48	2355-31-9	N2
NMeFOSA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:48	31506-32-8	N2
NMeFOSE	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:48	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.94	10	05/17/23 10:14	05/22/23 18:48	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:48	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:48	307-24-4	N2
PFBA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:48	375-22-4	N2
PFDS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:48	335-77-3	N2
PFDoS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:48	79780-39-5	N2
PFHpS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:48	375-92-8	N2
PFNS	2.0	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:48	68259-12-1	N2
PFOSA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:48	754-91-6	N2
PFPeA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:48	2706-90-3	N2
PFPeS	ND	ug/kg	0.99	10	05/17/23 10:14	05/22/23 18:48	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:48	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:48	375-85-9	N2
Perfluorohexanesulfonic acid	2.6	ug/kg	0.96	10	05/17/23 10:14	05/22/23 18:48	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:48	375-95-1	N2
Perfluorooctanesulfonic acid	646	ug/kg	9.8	100	05/17/23 10:14	05/31/23 13:21	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:48	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:48	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:48	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 18:48	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	169	%	25-150	10	05/17/23 10:14	05/22/23 18:48		S4
13C2-PFTA (S)	161	%	25-150	10	05/17/23 10:14	05/22/23 18:48		S4
13C24:2FTS (S)	104	%	25-150	10	05/17/23 10:14	05/22/23 18:48		
13C26:2FTS (S)	112	%	25-150	10	05/17/23 10:14	05/22/23 18:48		
13C28:2FTS (S)	170	%	25-150	10	05/17/23 10:14	05/22/23 18:48		S4
13C3-PFBS (S)	111	%	25-150	10	05/17/23 10:14	05/22/23 18:48	375-73-5	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-HA31-8.5-9.5 FT-0-23050 **Lab ID:** 10652169005 Collected: 05/05/23 09:25 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	116	%	25-150	10	05/17/23 10:14	05/22/23 18:48	355-46-4	
13C3HFPO-DA (S)	127	%	25-150	10	05/17/23 10:14	05/22/23 18:48		
13C4-PFBA (S)	112	%	25-150	10	05/17/23 10:14	05/22/23 18:48	375-22-4	
13C4-PFHpA (S)	136	%	25-150	10	05/17/23 10:14	05/22/23 18:48	375-85-9	
13C5-PFHxA (S)	127	%	25-150	10	05/17/23 10:14	05/22/23 18:48	307-24-4	
13C5-PFPeA (S)	119	%	25-150	10	05/17/23 10:14	05/22/23 18:48	2706-90-3	
13C6-PFDA (S)	180	%	25-150	10	05/17/23 10:14	05/22/23 18:48	335-76-2	S4
13C7-PFUdA (S)	192	%	25-150	10	05/17/23 10:14	05/22/23 18:48	2058-94-8	S4
13C8-PFOA (S)	153	%	25-150	10	05/17/23 10:14	05/22/23 18:48	335-67-1	S4
13C8-PFOS (S)	127	%	25-150	10	05/17/23 10:14	05/22/23 18:48	1763-23-1	
13C8-PFOSA (S)	120	%	25-150	10	05/17/23 10:14	05/22/23 18:48	754-91-6	
13C9-PFNA (S)	167	%	25-150	10	05/17/23 10:14	05/22/23 18:48	375-95-1	S4
d3-MeFOSAA (S)	160	%	25-150	10	05/17/23 10:14	05/22/23 18:48	2355-31-9	S4
d3-NMeFOSA (S)	110	%	10-150	10	05/17/23 10:14	05/22/23 18:48	31506-32-8	
d5-EtFOSAA (S)	132	%	25-150	10	05/17/23 10:14	05/22/23 18:48	2991-50-6	
d5-NEtFOSA (S)	126	%	10-150	10	05/17/23 10:14	05/22/23 18:48	4151-50-2	
d7-NMeFOSE (S)	100	%	10-150	10	05/17/23 10:14	05/22/23 18:48	24448-09-7	
d9-NEtFOSE (S)	96	%	10-150	10	05/17/23 10:14	05/22/23 18:48	1691-99-2	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie
Pace Project No.: 10652169

Sample: MEWI-S-HA31-8.5-9.5 FT-DB-2305 **Lab ID:** 10652169006 Collected: 05/05/23 09:30 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	6.9	%	0.10	1		05/25/23 14:01		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.97	10	05/17/23 10:14	05/22/23 18:55	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.97	10	05/17/23 10:14	05/22/23 18:55	757124-72-4	N2
6:2 FTS	ND	ug/kg	0.98	10	05/17/23 10:14	05/22/23 18:55	27619-97-2	N2
8:2 FTS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:55	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.96	10	05/17/23 10:14	05/22/23 18:55	756426-58-1	N2
ADONA	ND	ug/kg	0.98	10	05/17/23 10:14	05/22/23 18:55	919005-14-4	N2
HFPO-DA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:55	13252-13-6	N2
NEtFOSAA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:55	2991-50-6	N2
NEtFOSA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:55	4151-50-2	N2
NEtFOSE	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:55	1691-99-2	N2
NMeFOSAA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:55	2355-31-9	N2
NMeFOSA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:55	31506-32-8	N2
NMeFOSE	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:55	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.92	10	05/17/23 10:14	05/22/23 18:55	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:55	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:55	307-24-4	N2
PFBA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:55	375-22-4	N2
PFDS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:55	335-77-3	N2
PFDoS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:55	79780-39-5	N2
PFHpS	ND	ug/kg	0.98	10	05/17/23 10:14	05/22/23 18:55	375-92-8	N2
PFNS	ND	ug/kg	0.99	10	05/17/23 10:14	05/22/23 18:55	68259-12-1	N2
PFOSA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:55	754-91-6	N2
PFPeA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:55	2706-90-3	N2
PFPeS	ND	ug/kg	0.97	10	05/17/23 10:14	05/22/23 18:55	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:55	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:55	375-85-9	N2
Perfluorohexanesulfonic acid	1.9	ug/kg	0.94	10	05/17/23 10:14	05/22/23 18:55	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:55	375-95-1	N2
Perfluorooctanesulfonic acid	357	ug/kg	4.8	50	05/17/23 10:14	05/31/23 13:28	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:55	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:55	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:55	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 18:55	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	149	%	25-150	10	05/17/23 10:14	05/22/23 18:55		
13C2-PFTA (S)	153	%	25-150	10	05/17/23 10:14	05/22/23 18:55		S4
13C24:2FTS (S)	92	%	25-150	10	05/17/23 10:14	05/22/23 18:55		
13C26:2FTS (S)	94	%	25-150	10	05/17/23 10:14	05/22/23 18:55		
13C28:2FTS (S)	116	%	25-150	10	05/17/23 10:14	05/22/23 18:55		
13C3-PFBS (S)	112	%	25-150	10	05/17/23 10:14	05/22/23 18:55	375-73-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-HA31-8.5-9.5 FT-DB-2305 **Lab ID:** 10652169006 Collected: 05/05/23 09:30 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	112	%	25-150	10	05/17/23 10:14	05/22/23 18:55	355-46-4	
13C3HFPO-DA (S)	121	%	25-150	10	05/17/23 10:14	05/22/23 18:55		
13C4-PFBA (S)	112	%	25-150	10	05/17/23 10:14	05/22/23 18:55	375-22-4	
13C4-PFHpA (S)	127	%	25-150	10	05/17/23 10:14	05/22/23 18:55	375-85-9	
13C5-PFHxA (S)	123	%	25-150	10	05/17/23 10:14	05/22/23 18:55	307-24-4	
13C5-PFPeA (S)	115	%	25-150	10	05/17/23 10:14	05/22/23 18:55	2706-90-3	
13C6-PFDA (S)	168	%	25-150	10	05/17/23 10:14	05/22/23 18:55	335-76-2	S4
13C7-PFUdA (S)	173	%	25-150	10	05/17/23 10:14	05/22/23 18:55	2058-94-8	S4
13C8-PFOA (S)	146	%	25-150	10	05/17/23 10:14	05/22/23 18:55	335-67-1	
13C8-PFOS (S)	136	%	25-150	10	05/17/23 10:14	05/22/23 18:55	1763-23-1	
13C8-PFOSA (S)	110	%	25-150	10	05/17/23 10:14	05/22/23 18:55	754-91-6	
13C9-PFNA (S)	173	%	25-150	10	05/17/23 10:14	05/22/23 18:55	375-95-1	S4
d3-MeFOSAA (S)	134	%	25-150	10	05/17/23 10:14	05/22/23 18:55	2355-31-9	
d3-NMeFOSA (S)	44	%	10-150	10	05/17/23 10:14	05/22/23 18:55	31506-32-8	
d5-EtFOSAA (S)	140	%	25-150	10	05/17/23 10:14	05/22/23 18:55	2991-50-6	
d5-NEtFOSA (S)	35	%	10-150	10	05/17/23 10:14	05/22/23 18:55	4151-50-2	
d7-NMeFOSE (S)	80	%	10-150	10	05/17/23 10:14	05/22/23 18:55	24448-09-7	
d9-NEtFOSE (S)	75	%	10-150	10	05/17/23 10:14	05/22/23 18:55	1691-99-2	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-HA32-4-5 FT-0-230505 **Lab ID:** 10652169007 Collected: 05/05/23 10:25 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	7.7	%	0.10	1		05/25/23 14:01		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:03	763051-92-9	N2
4:2 FTS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:03	757124-72-4	N2
6:2 FTS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:03	27619-97-2	N2
8:2 FTS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:03	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.99	10	05/17/23 10:14	05/22/23 19:03	756426-58-1	N2
ADONA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:03	919005-14-4	N2
HFPO-DA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:03	13252-13-6	N2
NEtFOSAA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:03	2991-50-6	N2
NEtFOSA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:03	4151-50-2	N2
NEtFOSE	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:03	1691-99-2	N2
NMeFOSAA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:03	2355-31-9	N2
NMeFOSA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:03	31506-32-8	N2
NMeFOSE	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:03	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.95	10	05/17/23 10:14	05/22/23 19:03	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:03	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:03	307-24-4	N2
PFBA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:03	375-22-4	N2
PFDS	2.4	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:03	335-77-3	N2
PFDoS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:03	79780-39-5	N2
PFHpS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:03	375-92-8	N2
PFNS	4.1	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:03	68259-12-1	N2
PFOSA	3.8	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:03	754-91-6	N2
PFPeA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:03	2706-90-3	N2
PFPeS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:03	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:03	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:03	375-85-9	N2
Perfluorohexanesulfonic acid	4.0	ug/kg	0.97	10	05/17/23 10:14	05/22/23 19:03	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:03	375-95-1	N2
Perfluorooctanesulfonic acid	413	ug/kg	4.9	50	05/17/23 10:14	05/31/23 13:36	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:03	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:03	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:03	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:03	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	105	%	25-150	10	05/17/23 10:14	05/22/23 19:03		
13C2-PFTA (S)	97	%	25-150	10	05/17/23 10:14	05/22/23 19:03		
13C24:2FTS (S)	88	%	25-150	10	05/17/23 10:14	05/22/23 19:03		
13C26:2FTS (S)	82	%	25-150	10	05/17/23 10:14	05/22/23 19:03		
13C28:2FTS (S)	84	%	25-150	10	05/17/23 10:14	05/22/23 19:03		
13C3-PFBS (S)	92	%	25-150	10	05/17/23 10:14	05/22/23 19:03	375-73-5	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-HA32-4-5 FT-0-230505 **Lab ID:** 10652169007 Collected: 05/05/23 10:25 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	103	%	25-150	10	05/17/23 10:14	05/22/23 19:03	355-46-4	
13C3HFPO-DA (S)	95	%	25-150	10	05/17/23 10:14	05/22/23 19:03		
13C4-PFBA (S)	88	%	25-150	10	05/17/23 10:14	05/22/23 19:03	375-22-4	
13C4-PFHpA (S)	100	%	25-150	10	05/17/23 10:14	05/22/23 19:03	375-85-9	
13C5-PFHxA (S)	99	%	25-150	10	05/17/23 10:14	05/22/23 19:03	307-24-4	
13C5-PFPeA (S)	94	%	25-150	10	05/17/23 10:14	05/22/23 19:03	2706-90-3	
13C6-PFDA (S)	119	%	25-150	10	05/17/23 10:14	05/22/23 19:03	335-76-2	
13C7-PFUdA (S)	110	%	25-150	10	05/17/23 10:14	05/22/23 19:03	2058-94-8	
13C8-PFOA (S)	114	%	25-150	10	05/17/23 10:14	05/22/23 19:03	335-67-1	
13C8-PFOS (S)	113	%	25-150	10	05/17/23 10:14	05/22/23 19:03	1763-23-1	
13C8-PFOSA (S)	103	%	25-150	10	05/17/23 10:14	05/22/23 19:03	754-91-6	
13C9-PFNA (S)	121	%	25-150	10	05/17/23 10:14	05/22/23 19:03	375-95-1	
d3-MeFOSAA (S)	98	%	25-150	10	05/17/23 10:14	05/22/23 19:03	2355-31-9	
d3-NMeFOSA (S)	101	%	10-150	10	05/17/23 10:14	05/22/23 19:03	31506-32-8	
d5-EtFOSAA (S)	97	%	25-150	10	05/17/23 10:14	05/22/23 19:03	2991-50-6	
d5-NEtFOSA (S)	93	%	10-150	10	05/17/23 10:14	05/22/23 19:03	4151-50-2	
d7-NMeFOSE (S)	100	%	10-150	10	05/17/23 10:14	05/22/23 19:03	24448-09-7	
d9-NEtFOSE (S)	79	%	10-150	10	05/17/23 10:14	05/22/23 19:03	1691-99-2	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-HA32-8.5-9.5 FT-0-23050 **Lab ID:** 10652169008 **Collected:** 05/05/23 10:45 **Received:** 05/05/23 15:18 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Pace Analytical Services - Minneapolis								
Percent Moisture	9.4	%	0.10	1		05/25/23 14:02		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:10	763051-92-9	N2
4:2 FTS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:10	757124-72-4	N2
6:2 FTS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:10	27619-97-2	N2
8:2 FTS	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:10	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:10	756426-58-1	N2
ADONA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:10	919005-14-4	N2
HFPO-DA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:10	13252-13-6	N2
NEtFOSAA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:10	2991-50-6	N2
NEtFOSA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:10	4151-50-2	N2
NEtFOSE	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:10	1691-99-2	N2
NMeFOSAA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:10	2355-31-9	N2
NMeFOSA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:10	31506-32-8	N2
NMeFOSE	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:10	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.98	10	05/17/23 10:14	05/22/23 19:10	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:10	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:10	307-24-4	N2
PFBA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:10	375-22-4	N2
PFDS	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:10	335-77-3	N2
PFDoS	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:10	79780-39-5	N2
PFHpS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:10	375-92-8	N2
PFNS	14.4	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:10	68259-12-1	N2
PFOSA	1.1	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:10	754-91-6	N2
PFPeA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:10	2706-90-3	N2
PFPeS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:10	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:10	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:10	375-85-9	N2
Perfluorohexanesulfonic acid	1.2	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:10	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:10	375-95-1	N2
Perfluorooctanesulfonic acid	975	ug/kg	10.2	100	05/17/23 10:14	05/31/23 13:43	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:10	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:10	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:10	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:10	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	116	%	25-150	10	05/17/23 10:14	05/22/23 19:10		
13C2-PFTA (S)	108	%	25-150	10	05/17/23 10:14	05/22/23 19:10		
13C24:2FTS (S)	70	%	25-150	10	05/17/23 10:14	05/22/23 19:10		
13C26:2FTS (S)	105	%	25-150	10	05/17/23 10:14	05/22/23 19:10		
13C28:2FTS (S)	146	%	25-150	10	05/17/23 10:14	05/22/23 19:10		
13C3-PFBS (S)	94	%	25-150	10	05/17/23 10:14	05/22/23 19:10	375-73-5	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-HA32-8.5-9.5 FT-0-23050 **Lab ID:** 10652169008 Collected: 05/05/23 10:45 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	104	%	25-150	10	05/17/23 10:14	05/22/23 19:10	355-46-4	
13C3HFPO-DA (S)	104	%	25-150	10	05/17/23 10:14	05/22/23 19:10		
13C4-PFBA (S)	89	%	25-150	10	05/17/23 10:14	05/22/23 19:10	375-22-4	
13C4-PFHpA (S)	103	%	25-150	10	05/17/23 10:14	05/22/23 19:10	375-85-9	
13C5-PFHxA (S)	102	%	25-150	10	05/17/23 10:14	05/22/23 19:10	307-24-4	
13C5-PFPeA (S)	97	%	25-150	10	05/17/23 10:14	05/22/23 19:10	2706-90-3	
13C6-PFDA (S)	128	%	25-150	10	05/17/23 10:14	05/22/23 19:10	335-76-2	
13C7-PFUdA (S)	117	%	25-150	10	05/17/23 10:14	05/22/23 19:10	2058-94-8	
13C8-PFOA (S)	113	%	25-150	10	05/17/23 10:14	05/22/23 19:10	335-67-1	
13C8-PFOS (S)	105	%	25-150	10	05/17/23 10:14	05/22/23 19:10	1763-23-1	
13C8-PFOSA (S)	95	%	25-150	10	05/17/23 10:14	05/22/23 19:10	754-91-6	
13C9-PFNA (S)	115	%	25-150	10	05/17/23 10:14	05/22/23 19:10	375-95-1	
d3-MeFOSAA (S)	118	%	25-150	10	05/17/23 10:14	05/22/23 19:10	2355-31-9	
d3-NMeFOSA (S)	85	%	10-150	10	05/17/23 10:14	05/22/23 19:10	31506-32-8	
d5-EtFOSAA (S)	106	%	25-150	10	05/17/23 10:14	05/22/23 19:10	2991-50-6	
d5-NEtFOSA (S)	75	%	10-150	10	05/17/23 10:14	05/22/23 19:10	4151-50-2	
d7-NMeFOSE (S)	94	%	10-150	10	05/17/23 10:14	05/22/23 19:10	24448-09-7	
d9-NEtFOSE (S)	106	%	10-150	10	05/17/23 10:14	05/22/23 19:10	1691-99-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-HA33-4-5 FT-0-230505 **Lab ID:** 10652169009 Collected: 05/05/23 11:10 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	5.9	%	0.10	1		05/25/23 14:02		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.97	10	05/17/23 10:14	05/22/23 19:17	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.97	10	05/17/23 10:14	05/22/23 19:17	757124-72-4	N2
6:2 FTS	ND	ug/kg	0.98	10	05/17/23 10:14	05/22/23 19:17	27619-97-2	N2
8:2 FTS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:17	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.96	10	05/17/23 10:14	05/22/23 19:17	756426-58-1	N2
ADONA	ND	ug/kg	0.98	10	05/17/23 10:14	05/22/23 19:17	919005-14-4	N2
HFPO-DA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:17	13252-13-6	N2
NEtFOSAA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:17	2991-50-6	N2
NEtFOSE	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:17	4151-50-2	N2
NEtFOSE	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:17	1691-99-2	N2
NMeFOSAA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:17	2355-31-9	N2
NMeFOSA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:17	31506-32-8	N2
NMeFOSE	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:17	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.92	10	05/17/23 10:14	05/22/23 19:17	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:17	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:17	307-24-4	N2
PFBA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:17	375-22-4	N2
PFDS	3.8	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:17	335-77-3	N2
PFDoS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:17	79780-39-5	N2
PFHpS	1.7	ug/kg	0.98	10	05/17/23 10:14	05/22/23 19:17	375-92-8	N2
PFNS	9.6	ug/kg	0.99	10	05/17/23 10:14	05/22/23 19:17	68259-12-1	N2
PFOSA	3.1	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:17	754-91-6	N2
PFPeA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:17	2706-90-3	N2
PFPeS	ND	ug/kg	0.97	10	05/17/23 10:14	05/22/23 19:17	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:17	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:17	375-85-9	N2
Perfluorohexanesulfonic acid	5.0	ug/kg	0.94	10	05/17/23 10:14	05/22/23 19:17	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:17	375-95-1	N2
Perfluorooctanesulfonic acid	929	ug/kg	19.1	200	05/17/23 10:14	05/31/23 13:50	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:17	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:17	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:17	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:17	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	114	%	25-150	10	05/17/23 10:14	05/22/23 19:17		
13C2-PFTA (S)	108	%	25-150	10	05/17/23 10:14	05/22/23 19:17		
13C24:2FTS (S)	75	%	25-150	10	05/17/23 10:14	05/22/23 19:17		
13C26:2FTS (S)	63	%	25-150	10	05/17/23 10:14	05/22/23 19:17		
13C28:2FTS (S)	112	%	25-150	10	05/17/23 10:14	05/22/23 19:17		
13C3-PFBS (S)	92	%	25-150	10	05/17/23 10:14	05/22/23 19:17	375-73-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-HA33-4-5 FT-0-230505 **Lab ID:** 10652169009 Collected: 05/05/23 11:10 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	100	%	25-150	10	05/17/23 10:14	05/22/23 19:17	355-46-4	
13C3HFPO-DA (S)	99	%	25-150	10	05/17/23 10:14	05/22/23 19:17		
13C4-PFBA (S)	87	%	25-150	10	05/17/23 10:14	05/22/23 19:17	375-22-4	
13C4-PFHpA (S)	103	%	25-150	10	05/17/23 10:14	05/22/23 19:17	375-85-9	
13C5-PFHxA (S)	98	%	25-150	10	05/17/23 10:14	05/22/23 19:17	307-24-4	
13C5-PFPeA (S)	93	%	25-150	10	05/17/23 10:14	05/22/23 19:17	2706-90-3	
13C6-PFDA (S)	118	%	25-150	10	05/17/23 10:14	05/22/23 19:17	335-76-2	
13C7-PFUdA (S)	126	%	25-150	10	05/17/23 10:14	05/22/23 19:17	2058-94-8	
13C8-PFOA (S)	108	%	25-150	10	05/17/23 10:14	05/22/23 19:17	335-67-1	
13C8-PFOS (S)	107	%	25-150	10	05/17/23 10:14	05/22/23 19:17	1763-23-1	
13C8-PFOSA (S)	99	%	25-150	10	05/17/23 10:14	05/22/23 19:17	754-91-6	
13C9-PFNA (S)	108	%	25-150	10	05/17/23 10:14	05/22/23 19:17	375-95-1	
d3-MeFOSAA (S)	110	%	25-150	10	05/17/23 10:14	05/22/23 19:17	2355-31-9	
d3-NMeFOSA (S)	97	%	10-150	10	05/17/23 10:14	05/22/23 19:17	31506-32-8	
d5-EtFOSAA (S)	108	%	25-150	10	05/17/23 10:14	05/22/23 19:17	2991-50-6	
d5-NEtFOSA (S)	86	%	10-150	10	05/17/23 10:14	05/22/23 19:17	4151-50-2	
d7-NMeFOSE (S)	87	%	10-150	10	05/17/23 10:14	05/22/23 19:17	24448-09-7	
d9-NEtFOSE (S)	94	%	10-150	10	05/17/23 10:14	05/22/23 19:17	1691-99-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-HA33-8.5-9.5 FT-0-23050 **Lab ID:** 10652169010 Collected: 05/05/23 11:25 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	9.4	%	0.10	1		05/25/23 14:02		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:32	763051-92-9	N2
4:2 FTS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:32	757124-72-4	N2
6:2 FTS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:32	27619-97-2	N2
8:2 FTS	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:32	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:32	756426-58-1	N2
ADONA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:32	919005-14-4	N2
HFPO-DA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:32	13252-13-6	N2
NEtFOSAA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:32	2991-50-6	N2
NEtFOSA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:32	4151-50-2	N2
NEtFOSE	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:32	1691-99-2	N2
NMeFOSAA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:32	2355-31-9	N2
NMeFOSA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:32	31506-32-8	N2
NMeFOSE	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:32	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.97	10	05/17/23 10:14	05/22/23 19:32	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:32	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:32	307-24-4	N2
PFBA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:32	375-22-4	N2
PFDS	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:32	335-77-3	N2
PFDoS	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:32	79780-39-5	N2
PFHpS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:32	375-92-8	N2
PFNS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:32	68259-12-1	N2
PFOSA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:32	754-91-6	N2
PFPeA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:32	2706-90-3	N2
PFPeS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 19:32	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:32	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:32	375-85-9	N2
Perfluorohexanesulfonic acid	3.9	ug/kg	0.99	10	05/17/23 10:14	05/22/23 19:32	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:32	375-95-1	N2
Perfluorooctanesulfonic acid	463	ug/kg	10.1	100	05/17/23 10:14	05/31/23 13:57	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:32	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:32	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:32	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 19:32	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	128	%	25-150	10	05/17/23 10:14	05/22/23 19:32		
13C2-PFTA (S)	130	%	25-150	10	05/17/23 10:14	05/22/23 19:32		
13C24:2FTS (S)	84	%	25-150	10	05/17/23 10:14	05/22/23 19:32		
13C26:2FTS (S)	101	%	25-150	10	05/17/23 10:14	05/22/23 19:32		
13C28:2FTS (S)	156	%	25-150	10	05/17/23 10:14	05/22/23 19:32		S4
13C3-PFBS (S)	109	%	25-150	10	05/17/23 10:14	05/22/23 19:32	375-73-5	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-HA33-8.5-9.5 FT-0-23050 **Lab ID:** 10652169010 Collected: 05/05/23 11:25 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	118	%	25-150	10	05/17/23 10:14	05/22/23 19:32	355-46-4	
13C3HFPO-DA (S)	113	%	25-150	10	05/17/23 10:14	05/22/23 19:32		
13C4-PFBA (S)	104	%	25-150	10	05/17/23 10:14	05/22/23 19:32	375-22-4	
13C4-PFHpA (S)	119	%	25-150	10	05/17/23 10:14	05/22/23 19:32	375-85-9	
13C5-PFHxA (S)	112	%	25-150	10	05/17/23 10:14	05/22/23 19:32	307-24-4	
13C5-PFPeA (S)	108	%	25-150	10	05/17/23 10:14	05/22/23 19:32	2706-90-3	
13C6-PFDA (S)	135	%	25-150	10	05/17/23 10:14	05/22/23 19:32	335-76-2	
13C7-PFUdA (S)	137	%	25-150	10	05/17/23 10:14	05/22/23 19:32	2058-94-8	
13C8-PFOA (S)	125	%	25-150	10	05/17/23 10:14	05/22/23 19:32	335-67-1	
13C8-PFOS (S)	119	%	25-150	10	05/17/23 10:14	05/22/23 19:32	1763-23-1	
13C8-PFOSA (S)	120	%	25-150	10	05/17/23 10:14	05/22/23 19:32	754-91-6	
13C9-PFNA (S)	140	%	25-150	10	05/17/23 10:14	05/22/23 19:32	375-95-1	
d3-MeFOSAA (S)	127	%	25-150	10	05/17/23 10:14	05/22/23 19:32	2355-31-9	
d3-NMeFOSA (S)	74	%	10-150	10	05/17/23 10:14	05/22/23 19:32	31506-32-8	
d5-EtFOSAA (S)	126	%	25-150	10	05/17/23 10:14	05/22/23 19:32	2991-50-6	
d5-NEtFOSA (S)	65	%	10-150	10	05/17/23 10:14	05/22/23 19:32	4151-50-2	
d7-NMeFOSE (S)	114	%	10-150	10	05/17/23 10:14	05/22/23 19:32	24448-09-7	
d9-NEtFOSE (S)	109	%	10-150	10	05/17/23 10:14	05/22/23 19:32	1691-99-2	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-SB28-24-25 FT-0-230504 **Lab ID:** 10652169011 **Collected:** 05/04/23 15:45 **Received:** 05/05/23 15:18 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Pace Analytical Services - Minneapolis								
Percent Moisture	4.8	%	0.10	1		05/25/23 14:02		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.097	1	05/17/23 10:14	06/06/23 16:51	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.097	1	05/17/23 10:14	06/06/23 16:51	757124-72-4	N2
6:2 FTS	ND	ug/kg	0.098	1	05/17/23 10:14	06/06/23 16:51	27619-97-2	N2
8:2 FTS	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:51	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.096	1	05/17/23 10:14	06/06/23 16:51	756426-58-1	N2
ADONA	ND	ug/kg	0.098	1	05/17/23 10:14	06/06/23 16:51	919005-14-4	N2
HFPO-DA	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:51	13252-13-6	N2
NEtFOSAA	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:51	2991-50-6	N2
NEtFOSA	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:51	4151-50-2	N2
NEtFOSE	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:51	1691-99-2	N2
NMeFOSAA	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:51	2355-31-9	N2
NMeFOSA	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:51	31506-32-8	N2
NMeFOSE	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:51	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.092	1	05/17/23 10:14	06/06/23 16:51	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:51	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:51	307-24-4	N2
PFBA	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:51	375-22-4	N2
PFDS	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:51	335-77-3	N2
PFDoS	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:51	79780-39-5	N2
PFHpS	ND	ug/kg	0.098	1	05/17/23 10:14	06/06/23 16:51	375-92-8	N2
PFNS	ND	ug/kg	0.099	1	05/17/23 10:14	06/06/23 16:51	68259-12-1	N2
PFOSA	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:51	754-91-6	N2
PFPeA	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:51	2706-90-3	N2
PFPeS	ND	ug/kg	0.097	1	05/17/23 10:14	06/06/23 16:51	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:51	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:51	375-85-9	N2
Perfluorohexanesulfonic acid	0.11	ug/kg	0.094	1	05/17/23 10:14	06/06/23 16:51	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:51	375-95-1	N2
Perfluorooctanesulfonic acid	1.0	ug/kg	0.096	1	05/17/23 10:14	06/06/23 16:51	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:51	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:51	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:51	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:51	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	82	%	25-150	1	05/17/23 10:14	06/06/23 16:51		
13C2-PFTA (S)	81	%	25-150	1	05/17/23 10:14	06/06/23 16:51		
13C24:2FTS (S)	81	%	25-150	1	05/17/23 10:14	06/06/23 16:51		
13C26:2FTS (S)	96	%	25-150	1	05/17/23 10:14	06/06/23 16:51		
13C28:2FTS (S)	84	%	25-150	1	05/17/23 10:14	06/06/23 16:51		
13C3-PFBS (S)	86	%	25-150	1	05/17/23 10:14	06/06/23 16:51	375-73-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-SB28-24-25 FT-0-230504 **Lab ID:** 10652169011 Collected: 05/04/23 15:45 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	85	%	25-150	1	05/17/23 10:14	06/06/23 16:51	355-46-4	
13C3HFPO-DA (S)	89	%	25-150	1	05/17/23 10:14	06/06/23 16:51		
13C4-PFBA (S)	83	%	25-150	1	05/17/23 10:14	06/06/23 16:51	375-22-4	
13C4-PFHpA (S)	83	%	25-150	1	05/17/23 10:14	06/06/23 16:51	375-85-9	
13C5-PFHxA (S)	88	%	25-150	1	05/17/23 10:14	06/06/23 16:51	307-24-4	
13C5-PFPeA (S)	86	%	25-150	1	05/17/23 10:14	06/06/23 16:51	2706-90-3	
13C6-PFDA (S)	85	%	25-150	1	05/17/23 10:14	06/06/23 16:51	335-76-2	
13C7-PFUdA (S)	82	%	25-150	1	05/17/23 10:14	06/06/23 16:51	2058-94-8	
13C8-PFOA (S)	79	%	25-150	1	05/17/23 10:14	06/06/23 16:51	335-67-1	
13C8-PFOS (S)	90	%	25-150	1	05/17/23 10:14	06/06/23 16:51	1763-23-1	
13C8-PFOSA (S)	85	%	25-150	1	05/17/23 10:14	06/06/23 16:51	754-91-6	
13C9-PFNA (S)	87	%	25-150	1	05/17/23 10:14	06/06/23 16:51	375-95-1	
d3-MeFOSAA (S)	83	%	25-150	1	05/17/23 10:14	06/06/23 16:51	2355-31-9	
d3-NMeFOSA (S)	75	%	10-150	1	05/17/23 10:14	06/06/23 16:51	31506-32-8	
d5-EtFOSAA (S)	94	%	25-150	1	05/17/23 10:14	06/06/23 16:51	2991-50-6	
d5-NEtFOSA (S)	76	%	10-150	1	05/17/23 10:14	06/06/23 16:51	4151-50-2	
d7-NMeFOSE (S)	80	%	10-150	1	05/17/23 10:14	06/06/23 16:51	24448-09-7	
d9-NEtFOSE (S)	77	%	10-150	1	05/17/23 10:14	06/06/23 16:51	1691-99-2	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-SB28-29-30 FT-0-230504 **Lab ID:** 10652169012 Collected: 05/04/23 16:00 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	3.7	%	0.10	1		05/25/23 14:03		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.095	1	05/17/23 10:14	06/06/23 16:58	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.095	1	05/17/23 10:14	06/06/23 16:58	757124-72-4	N2
6:2 FTS	ND	ug/kg	0.096	1	05/17/23 10:14	06/06/23 16:58	27619-97-2	N2
8:2 FTS	ND	ug/kg	0.098	1	05/17/23 10:14	06/06/23 16:58	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.094	1	05/17/23 10:14	06/06/23 16:58	756426-58-1	N2
ADONA	ND	ug/kg	0.096	1	05/17/23 10:14	06/06/23 16:58	919005-14-4	N2
HFPO-DA	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:58	13252-13-6	N2
NEtFOSAA	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:58	2991-50-6	N2
NEtFOSA	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:58	4151-50-2	N2
NEtFOSE	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:58	1691-99-2	N2
NMeFOSAA	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:58	2355-31-9	N2
NMeFOSA	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:58	31506-32-8	N2
NMeFOSE	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:58	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.090	1	05/17/23 10:14	06/06/23 16:58	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:58	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:58	307-24-4	N2
PFBA	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:58	375-22-4	N2
PFDS	ND	ug/kg	0.098	1	05/17/23 10:14	06/06/23 16:58	335-77-3	N2
PFDoS	ND	ug/kg	0.098	1	05/17/23 10:14	06/06/23 16:58	79780-39-5	N2
PFHpS	ND	ug/kg	0.096	1	05/17/23 10:14	06/06/23 16:58	375-92-8	N2
PFNS	ND	ug/kg	0.097	1	05/17/23 10:14	06/06/23 16:58	68259-12-1	N2
PFOSA	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:58	754-91-6	N2
PFPeA	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:58	2706-90-3	N2
PFPeS	ND	ug/kg	0.095	1	05/17/23 10:14	06/06/23 16:58	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:58	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:58	375-85-9	N2
Perfluorohexanesulfonic acid	0.12	ug/kg	0.092	1	05/17/23 10:14	06/06/23 16:58	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:58	375-95-1	N2
Perfluorooctanesulfonic acid	0.36	ug/kg	0.094	1	05/17/23 10:14	06/06/23 16:58	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:58	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:58	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:58	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 16:58	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	84	%	25-150	1	05/17/23 10:14	06/06/23 16:58		
13C2-PFTA (S)	81	%	25-150	1	05/17/23 10:14	06/06/23 16:58		
13C24:2FTS (S)	78	%	25-150	1	05/17/23 10:14	06/06/23 16:58		
13C26:2FTS (S)	96	%	25-150	1	05/17/23 10:14	06/06/23 16:58		
13C28:2FTS (S)	88	%	25-150	1	05/17/23 10:14	06/06/23 16:58		
13C3-PFBS (S)	88	%	25-150	1	05/17/23 10:14	06/06/23 16:58	375-73-5	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-SB28-29-30 FT-0-230504 **Lab ID:** 10652169012 Collected: 05/04/23 16:00 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	87	%	25-150	1	05/17/23 10:14	06/06/23 16:58	355-46-4	
13C3HFPO-DA (S)	95	%	25-150	1	05/17/23 10:14	06/06/23 16:58		
13C4-PFBA (S)	85	%	25-150	1	05/17/23 10:14	06/06/23 16:58	375-22-4	
13C4-PFHpA (S)	81	%	25-150	1	05/17/23 10:14	06/06/23 16:58	375-85-9	
13C5-PFHxA (S)	88	%	25-150	1	05/17/23 10:14	06/06/23 16:58	307-24-4	
13C5-PFPeA (S)	88	%	25-150	1	05/17/23 10:14	06/06/23 16:58	2706-90-3	
13C6-PFDA (S)	88	%	25-150	1	05/17/23 10:14	06/06/23 16:58	335-76-2	
13C7-PFUdA (S)	84	%	25-150	1	05/17/23 10:14	06/06/23 16:58	2058-94-8	
13C8-PFOA (S)	79	%	25-150	1	05/17/23 10:14	06/06/23 16:58	335-67-1	
13C8-PFOS (S)	94	%	25-150	1	05/17/23 10:14	06/06/23 16:58	1763-23-1	
13C8-PFOSA (S)	88	%	25-150	1	05/17/23 10:14	06/06/23 16:58	754-91-6	
13C9-PFNA (S)	83	%	25-150	1	05/17/23 10:14	06/06/23 16:58	375-95-1	
d3-MeFOSAA (S)	90	%	25-150	1	05/17/23 10:14	06/06/23 16:58	2355-31-9	
d3-NMeFOSA (S)	76	%	10-150	1	05/17/23 10:14	06/06/23 16:58	31506-32-8	
d5-EtFOSAA (S)	98	%	25-150	1	05/17/23 10:14	06/06/23 16:58	2991-50-6	
d5-NEtFOSA (S)	79	%	10-150	1	05/17/23 10:14	06/06/23 16:58	4151-50-2	
d7-NMeFOSE (S)	80	%	10-150	1	05/17/23 10:14	06/06/23 16:58	24448-09-7	
d9-NEtFOSE (S)	77	%	10-150	1	05/17/23 10:14	06/06/23 16:58	1691-99-2	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-SB29-24-25 FT-0-230504 **Lab ID:** 10652169013 Collected: 05/04/23 15:30 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	1.9	%	0.10	1		05/25/23 14:03		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.092	1	05/17/23 10:14	06/06/23 17:06	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.092	1	05/17/23 10:14	06/06/23 17:06	757124-72-4	N2
6:2 FTS	ND	ug/kg	0.093	1	05/17/23 10:14	06/06/23 17:06	27619-97-2	N2
8:2 FTS	ND	ug/kg	0.095	1	05/17/23 10:14	06/06/23 17:06	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.091	1	05/17/23 10:14	06/06/23 17:06	756426-58-1	N2
ADONA	ND	ug/kg	0.093	1	05/17/23 10:14	06/06/23 17:06	919005-14-4	N2
HFPO-DA	ND	ug/kg	0.098	1	05/17/23 10:14	06/06/23 17:06	13252-13-6	N2
NEtFOSAA	ND	ug/kg	0.098	1	05/17/23 10:14	06/06/23 17:06	2991-50-6	N2
NEtFOSA	ND	ug/kg	0.098	1	05/17/23 10:14	06/06/23 17:06	4151-50-2	N2
NEtFOSE	ND	ug/kg	0.098	1	05/17/23 10:14	06/06/23 17:06	1691-99-2	N2
NMeFOSAA	ND	ug/kg	0.098	1	05/17/23 10:14	06/06/23 17:06	2355-31-9	N2
NMeFOSA	ND	ug/kg	0.098	1	05/17/23 10:14	06/06/23 17:06	31506-32-8	N2
NMeFOSE	ND	ug/kg	0.098	1	05/17/23 10:14	06/06/23 17:06	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.088	1	05/17/23 10:14	06/06/23 17:06	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	0.098	1	05/17/23 10:14	06/06/23 17:06	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	0.098	1	05/17/23 10:14	06/06/23 17:06	307-24-4	N2
PFBA	ND	ug/kg	0.098	1	05/17/23 10:14	06/06/23 17:06	375-22-4	N2
PFDS	ND	ug/kg	0.095	1	05/17/23 10:14	06/06/23 17:06	335-77-3	N2
PFDoS	ND	ug/kg	0.095	1	05/17/23 10:14	06/06/23 17:06	79780-39-5	N2
PFHpS	ND	ug/kg	0.093	1	05/17/23 10:14	06/06/23 17:06	375-92-8	N2
PFNS	ND	ug/kg	0.094	1	05/17/23 10:14	06/06/23 17:06	68259-12-1	N2
PFOSA	ND	ug/kg	0.098	1	05/17/23 10:14	06/06/23 17:06	754-91-6	N2
PFPeA	ND	ug/kg	0.098	1	05/17/23 10:14	06/06/23 17:06	2706-90-3	N2
PFPeS	ND	ug/kg	0.092	1	05/17/23 10:14	06/06/23 17:06	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	0.098	1	05/17/23 10:14	06/06/23 17:06	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	0.098	1	05/17/23 10:14	06/06/23 17:06	375-85-9	N2
Perfluorohexanesulfonic acid	1.0	ug/kg	0.090	1	05/17/23 10:14	06/06/23 17:06	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	0.098	1	05/17/23 10:14	06/06/23 17:06	375-95-1	N2
Perfluorooctanesulfonic acid	0.57	ug/kg	0.091	1	05/17/23 10:14	06/06/23 17:06	1763-23-1	N2
Perfluorooctanoic acid	0.11	ug/kg	0.098	1	05/17/23 10:14	06/06/23 17:06	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	0.098	1	05/17/23 10:14	06/06/23 17:06	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	0.098	1	05/17/23 10:14	06/06/23 17:06	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	0.098	1	05/17/23 10:14	06/06/23 17:06	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	90	%	25-150	1	05/17/23 10:14	06/06/23 17:06		
13C2-PFTA (S)	85	%	25-150	1	05/17/23 10:14	06/06/23 17:06		
13C24:2FTS (S)	83	%	25-150	1	05/17/23 10:14	06/06/23 17:06		
13C26:2FTS (S)	102	%	25-150	1	05/17/23 10:14	06/06/23 17:06		
13C28:2FTS (S)	98	%	25-150	1	05/17/23 10:14	06/06/23 17:06		
13C3-PFBS (S)	95	%	25-150	1	05/17/23 10:14	06/06/23 17:06	375-73-5	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-SB29-24-25 FT-0-230504 **Lab ID:** 10652169013 Collected: 05/04/23 15:30 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	94	%	25-150	1	05/17/23 10:14	06/06/23 17:06	355-46-4	
13C3HFPO-DA (S)	101	%	25-150	1	05/17/23 10:14	06/06/23 17:06		
13C4-PFBA (S)	90	%	25-150	1	05/17/23 10:14	06/06/23 17:06	375-22-4	
13C4-PFHpA (S)	89	%	25-150	1	05/17/23 10:14	06/06/23 17:06	375-85-9	
13C5-PFHxA (S)	95	%	25-150	1	05/17/23 10:14	06/06/23 17:06	307-24-4	
13C5-PFPeA (S)	94	%	25-150	1	05/17/23 10:14	06/06/23 17:06	2706-90-3	
13C6-PFDA (S)	90	%	25-150	1	05/17/23 10:14	06/06/23 17:06	335-76-2	
13C7-PFUdA (S)	87	%	25-150	1	05/17/23 10:14	06/06/23 17:06	2058-94-8	
13C8-PFOA (S)	85	%	25-150	1	05/17/23 10:14	06/06/23 17:06	335-67-1	
13C8-PFOS (S)	97	%	25-150	1	05/17/23 10:14	06/06/23 17:06	1763-23-1	
13C8-PFOSA (S)	94	%	25-150	1	05/17/23 10:14	06/06/23 17:06	754-91-6	
13C9-PFNA (S)	88	%	25-150	1	05/17/23 10:14	06/06/23 17:06	375-95-1	
d3-MeFOSAA (S)	90	%	25-150	1	05/17/23 10:14	06/06/23 17:06	2355-31-9	
d3-NMeFOSA (S)	86	%	10-150	1	05/17/23 10:14	06/06/23 17:06	31506-32-8	
d5-EtFOSAA (S)	101	%	25-150	1	05/17/23 10:14	06/06/23 17:06	2991-50-6	
d5-NEtFOSA (S)	87	%	10-150	1	05/17/23 10:14	06/06/23 17:06	4151-50-2	
d7-NMeFOSE (S)	87	%	10-150	1	05/17/23 10:14	06/06/23 17:06	24448-09-7	
d9-NEtFOSE (S)	82	%	10-150	1	05/17/23 10:14	06/06/23 17:06	1691-99-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-SB29-29-30 FT-0-230504 **Lab ID:** 10652169014 **Collected:** 05/04/23 15:35 **Received:** 05/05/23 15:18 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Pace Analytical Services - Minneapolis								
Percent Moisture	2.5	%	0.10	1		05/25/23 14:03		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.093	1	05/17/23 10:14	06/06/23 17:13	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.093	1	05/17/23 10:14	06/06/23 17:13	757124-72-4	N2
6:2 FTS	ND	ug/kg	0.094	1	05/17/23 10:14	06/06/23 17:13	27619-97-2	N2
8:2 FTS	ND	ug/kg	0.096	1	05/17/23 10:14	06/06/23 17:13	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.092	1	05/17/23 10:14	06/06/23 17:13	756426-58-1	N2
ADONA	ND	ug/kg	0.094	1	05/17/23 10:14	06/06/23 17:13	919005-14-4	N2
HFPO-DA	ND	ug/kg	0.099	1	05/17/23 10:14	06/06/23 17:13	13252-13-6	N2
NEtFOSAA	ND	ug/kg	0.099	1	05/17/23 10:14	06/06/23 17:13	2991-50-6	N2
NEtFOSA	ND	ug/kg	0.099	1	05/17/23 10:14	06/06/23 17:13	4151-50-2	N2
NEtFOSE	ND	ug/kg	0.099	1	05/17/23 10:14	06/06/23 17:13	1691-99-2	N2
NMeFOSAA	ND	ug/kg	0.099	1	05/17/23 10:14	06/06/23 17:13	2355-31-9	N2
NMeFOSA	ND	ug/kg	0.099	1	05/17/23 10:14	06/06/23 17:13	31506-32-8	N2
NMeFOSE	ND	ug/kg	0.099	1	05/17/23 10:14	06/06/23 17:13	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.088	1	05/17/23 10:14	06/06/23 17:13	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	0.099	1	05/17/23 10:14	06/06/23 17:13	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	0.099	1	05/17/23 10:14	06/06/23 17:13	307-24-4	N2
PFBA	ND	ug/kg	0.099	1	05/17/23 10:14	06/06/23 17:13	375-22-4	N2
PFDS	ND	ug/kg	0.096	1	05/17/23 10:14	06/06/23 17:13	335-77-3	N2
PFDoS	ND	ug/kg	0.096	1	05/17/23 10:14	06/06/23 17:13	79780-39-5	N2
PFHpS	ND	ug/kg	0.094	1	05/17/23 10:14	06/06/23 17:13	375-92-8	N2
PFNS	ND	ug/kg	0.095	1	05/17/23 10:14	06/06/23 17:13	68259-12-1	N2
PFOSA	ND	ug/kg	0.099	1	05/17/23 10:14	06/06/23 17:13	754-91-6	N2
PFPeA	ND	ug/kg	0.099	1	05/17/23 10:14	06/06/23 17:13	2706-90-3	N2
PFPeS	ND	ug/kg	0.093	1	05/17/23 10:14	06/06/23 17:13	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	0.099	1	05/17/23 10:14	06/06/23 17:13	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	0.099	1	05/17/23 10:14	06/06/23 17:13	375-85-9	N2
Perfluorohexanesulfonic acid	1.4	ug/kg	0.090	1	05/17/23 10:14	06/06/23 17:13	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	0.099	1	05/17/23 10:14	06/06/23 17:13	375-95-1	N2
Perfluorooctanesulfonic acid	0.12	ug/kg	0.092	1	05/17/23 10:14	06/06/23 17:13	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	0.099	1	05/17/23 10:14	06/06/23 17:13	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	0.099	1	05/17/23 10:14	06/06/23 17:13	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	0.099	1	05/17/23 10:14	06/06/23 17:13	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	0.099	1	05/17/23 10:14	06/06/23 17:13	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	86	%	25-150	1	05/17/23 10:14	06/06/23 17:13		
13C2-PFTA (S)	79	%	25-150	1	05/17/23 10:14	06/06/23 17:13		
13C24:2FTS (S)	77	%	25-150	1	05/17/23 10:14	06/06/23 17:13		
13C26:2FTS (S)	93	%	25-150	1	05/17/23 10:14	06/06/23 17:13		
13C28:2FTS (S)	89	%	25-150	1	05/17/23 10:14	06/06/23 17:13		
13C3-PFBS (S)	89	%	25-150	1	05/17/23 10:14	06/06/23 17:13	375-73-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-SB29-29-30 FT-0-230504 **Lab ID:** 10652169014 Collected: 05/04/23 15:35 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	86	%	25-150	1	05/17/23 10:14	06/06/23 17:13	355-46-4	
13C3HFPO-DA (S)	95	%	25-150	1	05/17/23 10:14	06/06/23 17:13		
13C4-PFBA (S)	86	%	25-150	1	05/17/23 10:14	06/06/23 17:13	375-22-4	
13C4-PFHpA (S)	83	%	25-150	1	05/17/23 10:14	06/06/23 17:13	375-85-9	
13C5-PFHxA (S)	89	%	25-150	1	05/17/23 10:14	06/06/23 17:13	307-24-4	
13C5-PFPeA (S)	88	%	25-150	1	05/17/23 10:14	06/06/23 17:13	2706-90-3	
13C6-PFDA (S)	89	%	25-150	1	05/17/23 10:14	06/06/23 17:13	335-76-2	
13C7-PFUdA (S)	84	%	25-150	1	05/17/23 10:14	06/06/23 17:13	2058-94-8	
13C8-PFOA (S)	80	%	25-150	1	05/17/23 10:14	06/06/23 17:13	335-67-1	
13C8-PFOS (S)	94	%	25-150	1	05/17/23 10:14	06/06/23 17:13	1763-23-1	
13C8-PFOSA (S)	86	%	25-150	1	05/17/23 10:14	06/06/23 17:13	754-91-6	
13C9-PFNA (S)	84	%	25-150	1	05/17/23 10:14	06/06/23 17:13	375-95-1	
d3-MeFOSAA (S)	80	%	25-150	1	05/17/23 10:14	06/06/23 17:13	2355-31-9	
d3-NMeFOSA (S)	79	%	10-150	1	05/17/23 10:14	06/06/23 17:13	31506-32-8	
d5-EtFOSAA (S)	95	%	25-150	1	05/17/23 10:14	06/06/23 17:13	2991-50-6	
d5-NEtFOSA (S)	79	%	10-150	1	05/17/23 10:14	06/06/23 17:13	4151-50-2	
d7-NMeFOSE (S)	79	%	10-150	1	05/17/23 10:14	06/06/23 17:13	24448-09-7	
d9-NEtFOSE (S)	77	%	10-150	1	05/17/23 10:14	06/06/23 17:13	1691-99-2	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie
Pace Project No.: 10652169

Sample: MEWI-S-SB30-4.5-5.5 FT-0-23050 **Lab ID:** 10652169015 **Collected:** 05/03/23 15:15 **Received:** 05/05/23 15:18 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	18.9	%	0.10	1		05/25/23 14:03		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 20:08	763051-92-9	N2
4:2 FTS	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 20:08	757124-72-4	N2
6:2 FTS	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 20:08	27619-97-2	N2
8:2 FTS	ND	ug/kg	1.2	10	05/17/23 10:14	05/22/23 20:08	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 20:08	756426-58-1	N2
ADONA	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 20:08	919005-14-4	N2
HFPO-DA	ND	ug/kg	1.2	10	05/17/23 10:14	05/22/23 20:08	13252-13-6	N2
NEtFOSAA	ND	ug/kg	1.2	10	05/17/23 10:14	05/22/23 20:08	2991-50-6	N2
NEtFOSA	ND	ug/kg	1.2	10	05/17/23 10:14	05/22/23 20:08	4151-50-2	N2
NEtFOSE	ND	ug/kg	1.2	10	05/17/23 10:14	05/22/23 20:08	1691-99-2	N2
NMeFOSAA	ND	ug/kg	1.2	10	05/17/23 10:14	05/22/23 20:08	2355-31-9	N2
NMeFOSA	ND	ug/kg	1.2	10	05/17/23 10:14	05/22/23 20:08	31506-32-8	N2
NMeFOSE	ND	ug/kg	1.2	10	05/17/23 10:14	05/22/23 20:08	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 20:08	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	1.2	10	05/17/23 10:14	05/22/23 20:08	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	1.2	10	05/17/23 10:14	05/22/23 20:08	307-24-4	N2
PFBA	ND	ug/kg	1.2	10	05/17/23 10:14	05/22/23 20:08	375-22-4	N2
PFDS	ND	ug/kg	1.2	10	05/17/23 10:14	05/22/23 20:08	335-77-3	N2
PFDoS	ND	ug/kg	1.2	10	05/17/23 10:14	05/22/23 20:08	79780-39-5	N2
PFHpS	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 20:08	375-92-8	N2
PFNS	ND	ug/kg	1.2	10	05/17/23 10:14	05/22/23 20:08	68259-12-1	N2
PFOSA	ND	ug/kg	1.2	10	05/17/23 10:14	05/22/23 20:08	754-91-6	N2
PFPeA	ND	ug/kg	1.2	10	05/17/23 10:14	05/22/23 20:08	2706-90-3	N2
PFPeS	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 20:08	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	1.2	10	05/17/23 10:14	05/22/23 20:08	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	1.2	10	05/17/23 10:14	05/22/23 20:08	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/kg	1.1	10	05/17/23 10:14	05/22/23 20:08	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	1.2	10	05/17/23 10:14	05/22/23 20:08	375-95-1	N2
Perfluorooctanesulfonic acid	329	ug/kg	4.5	40	05/17/23 10:14	05/31/23 15:02	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	1.2	10	05/17/23 10:14	05/22/23 20:08	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	1.2	10	05/17/23 10:14	05/22/23 20:08	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	1.2	10	05/17/23 10:14	05/22/23 20:08	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	1.2	10	05/17/23 10:14	05/22/23 20:08	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	98	%	25-150	10	05/17/23 10:14	05/22/23 20:08		
13C2-PFTA (S)	93	%	25-150	10	05/17/23 10:14	05/22/23 20:08		
13C24:2FTS (S)	73	%	25-150	10	05/17/23 10:14	05/22/23 20:08		
13C26:2FTS (S)	71	%	25-150	10	05/17/23 10:14	05/22/23 20:08		
13C28:2FTS (S)	102	%	25-150	10	05/17/23 10:14	05/22/23 20:08		
13C3-PFBS (S)	92	%	25-150	10	05/17/23 10:14	05/22/23 20:08	375-73-5	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-SB30-4.5-5.5 FT-0-23050 **Lab ID:** 10652169015 Collected: 05/03/23 15:15 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	91	%	25-150	10	05/17/23 10:14	05/22/23 20:08	355-46-4	
13C3HFPO-DA (S)	97	%	25-150	10	05/17/23 10:14	05/22/23 20:08		
13C4-PFBA (S)	83	%	25-150	10	05/17/23 10:14	05/22/23 20:08	375-22-4	
13C4-PFHpA (S)	97	%	25-150	10	05/17/23 10:14	05/22/23 20:08	375-85-9	
13C5-PFHxA (S)	90	%	25-150	10	05/17/23 10:14	05/22/23 20:08	307-24-4	
13C5-PFPeA (S)	88	%	25-150	10	05/17/23 10:14	05/22/23 20:08	2706-90-3	
13C6-PFDA (S)	103	%	25-150	10	05/17/23 10:14	05/22/23 20:08	335-76-2	
13C7-PFUdA (S)	109	%	25-150	10	05/17/23 10:14	05/22/23 20:08	2058-94-8	
13C8-PFOA (S)	100	%	25-150	10	05/17/23 10:14	05/22/23 20:08	335-67-1	
13C8-PFOS (S)	128	%	25-150	10	05/17/23 10:14	05/22/23 20:08	1763-23-1	
13C8-PFOSA (S)	97	%	25-150	10	05/17/23 10:14	05/22/23 20:08	754-91-6	
13C9-PFNA (S)	116	%	25-150	10	05/17/23 10:14	05/22/23 20:08	375-95-1	
d3-MeFOSAA (S)	86	%	25-150	10	05/17/23 10:14	05/22/23 20:08	2355-31-9	
d3-NMeFOSA (S)	69	%	10-150	10	05/17/23 10:14	05/22/23 20:08	31506-32-8	
d5-EtFOSAA (S)	82	%	25-150	10	05/17/23 10:14	05/22/23 20:08	2991-50-6	
d5-NEtFOSA (S)	52	%	10-150	10	05/17/23 10:14	05/22/23 20:08	4151-50-2	
d7-NMeFOSE (S)	61	%	10-150	10	05/17/23 10:14	05/22/23 20:08	24448-09-7	
d9-NEtFOSE (S)	46	%	10-150	10	05/17/23 10:14	05/22/23 20:08	1691-99-2	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-SB31-9-10 FT-0-230502 **Lab ID:** 10652169016 Collected: 05/02/23 08:00 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	8.1	%	0.10	1		05/25/23 14:04		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.099	1	05/17/23 10:14	06/06/23 17:27	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.099	1	05/17/23 10:14	06/06/23 17:27	757124-72-4	N2
6:2 FTS	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:27	27619-97-2	N2
8:2 FTS	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:27	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.098	1	05/17/23 10:14	06/06/23 17:27	756426-58-1	N2
ADONA	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:27	919005-14-4	N2
HFPO-DA	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:27	13252-13-6	N2
NEtFOSAA	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:27	2991-50-6	N2
NEtFOSA	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:27	4151-50-2	N2
NEtFOSE	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:27	1691-99-2	N2
NMeFOSAA	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:27	2355-31-9	N2
NMeFOSA	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:27	31506-32-8	N2
NMeFOSE	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:27	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.094	1	05/17/23 10:14	06/06/23 17:27	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:27	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:27	307-24-4	N2
PFBA	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:27	375-22-4	N2
PFDS	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:27	335-77-3	N2
PFDoS	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:27	79780-39-5	N2
PFHpS	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:27	375-92-8	N2
PFNS	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:27	68259-12-1	N2
PFOSA	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:27	754-91-6	N2
PFPeA	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:27	2706-90-3	N2
PFPeS	ND	ug/kg	0.099	1	05/17/23 10:14	06/06/23 17:27	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:27	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:27	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/kg	0.096	1	05/17/23 10:14	06/06/23 17:27	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:27	375-95-1	N2
Perfluorooctanesulfonic acid	ND	ug/kg	0.098	1	05/17/23 10:14	06/06/23 17:27	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:27	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:27	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:27	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	0.11	1	05/17/23 10:14	06/06/23 17:27	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	84	%	25-150	1	05/17/23 10:14	06/06/23 17:27		
13C2-PFTA (S)	76	%	25-150	1	05/17/23 10:14	06/06/23 17:27		
13C24:2FTS (S)	74	%	25-150	1	05/17/23 10:14	06/06/23 17:27		
13C26:2FTS (S)	96	%	25-150	1	05/17/23 10:14	06/06/23 17:27		
13C28:2FTS (S)	87	%	25-150	1	05/17/23 10:14	06/06/23 17:27		
13C3-PFBS (S)	85	%	25-150	1	05/17/23 10:14	06/06/23 17:27	375-73-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-SB31-9-10 FT-0-230502 **Lab ID:** 10652169016 Collected: 05/02/23 08:00 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	86	%	25-150	1	05/17/23 10:14	06/06/23 17:27	355-46-4	
13C3HFPO-DA (S)	90	%	25-150	1	05/17/23 10:14	06/06/23 17:27		
13C4-PFBA (S)	83	%	25-150	1	05/17/23 10:14	06/06/23 17:27	375-22-4	
13C4-PFHpA (S)	80	%	25-150	1	05/17/23 10:14	06/06/23 17:27	375-85-9	
13C5-PFHxA (S)	85	%	25-150	1	05/17/23 10:14	06/06/23 17:27	307-24-4	
13C5-PFPeA (S)	85	%	25-150	1	05/17/23 10:14	06/06/23 17:27	2706-90-3	
13C6-PFDA (S)	81	%	25-150	1	05/17/23 10:14	06/06/23 17:27	335-76-2	
13C7-PFUdA (S)	75	%	25-150	1	05/17/23 10:14	06/06/23 17:27	2058-94-8	
13C8-PFOA (S)	79	%	25-150	1	05/17/23 10:14	06/06/23 17:27	335-67-1	
13C8-PFOS (S)	93	%	25-150	1	05/17/23 10:14	06/06/23 17:27	1763-23-1	
13C8-PFOSA (S)	82	%	25-150	1	05/17/23 10:14	06/06/23 17:27	754-91-6	
13C9-PFNA (S)	83	%	25-150	1	05/17/23 10:14	06/06/23 17:27	375-95-1	
d3-MeFOSAA (S)	79	%	25-150	1	05/17/23 10:14	06/06/23 17:27	2355-31-9	
d3-NMeFOSA (S)	71	%	10-150	1	05/17/23 10:14	06/06/23 17:27	31506-32-8	
d5-EtFOSAA (S)	93	%	25-150	1	05/17/23 10:14	06/06/23 17:27	2991-50-6	
d5-NEtFOSA (S)	75	%	10-150	1	05/17/23 10:14	06/06/23 17:27	4151-50-2	
d7-NMeFOSE (S)	80	%	10-150	1	05/17/23 10:14	06/06/23 17:27	24448-09-7	
d9-NEtFOSE (S)	76	%	10-150	1	05/17/23 10:14	06/06/23 17:27	1691-99-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-SB30-12.5-13.5 FT-0-230 **Lab ID:** 10652169017 **Collected:** 05/03/23 15:30 **Received:** 05/05/23 15:18 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Pace Analytical Services - Minneapolis								
Percent Moisture	6.5	%	0.10	1		05/25/23 14:04		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.98	10	05/17/23 10:14	05/22/23 20:22	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.98	10	05/17/23 10:14	05/22/23 20:22	757124-72-4	N2
6:2 FTS	ND	ug/kg	0.99	10	05/17/23 10:14	05/22/23 20:22	27619-97-2	N2
8:2 FTS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:22	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.97	10	05/17/23 10:14	05/22/23 20:22	756426-58-1	N2
ADONA	ND	ug/kg	0.99	10	05/17/23 10:14	05/22/23 20:22	919005-14-4	N2
HFPO-DA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:22	13252-13-6	N2
NEtFOSAA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:22	2991-50-6	N2
NEtFOSA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:22	4151-50-2	N2
NEtFOSE	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:22	1691-99-2	N2
NMeFOSAA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:22	2355-31-9	N2
NMeFOSA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:22	31506-32-8	N2
NMeFOSE	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:22	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.93	10	05/17/23 10:14	05/22/23 20:22	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:22	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:22	307-24-4	N2
PFBA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:22	375-22-4	N2
PFDS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:22	335-77-3	N2
PFDoS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:22	79780-39-5	N2
PFHpS	ND	ug/kg	0.99	10	05/17/23 10:14	05/22/23 20:22	375-92-8	N2
PFNS	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:22	68259-12-1	N2
PFOSA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:22	754-91-6	N2
PFPeA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:22	2706-90-3	N2
PFPeS	ND	ug/kg	0.98	10	05/17/23 10:14	05/22/23 20:22	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:22	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:22	375-85-9	N2
Perfluorohexanesulfonic acid	2.0	ug/kg	0.95	10	05/17/23 10:14	05/22/23 20:22	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:22	375-95-1	N2
Perfluorooctanesulfonic acid	65.3	ug/kg	0.97	10	05/17/23 10:14	05/22/23 20:22	1763-23-1	N2
Perfluorooctanoic acid	2.2	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:22	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:22	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:22	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:22	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	124	%	25-150	10	05/17/23 10:14	05/22/23 20:22		
13C2-PFTA (S)	120	%	25-150	10	05/17/23 10:14	05/22/23 20:22		
13C24:2FTS (S)	81	%	25-150	10	05/17/23 10:14	05/22/23 20:22		
13C26:2FTS (S)	65	%	25-150	10	05/17/23 10:14	05/22/23 20:22		
13C28:2FTS (S)	112	%	25-150	10	05/17/23 10:14	05/22/23 20:22		
13C3-PFBS (S)	106	%	25-150	10	05/17/23 10:14	05/22/23 20:22	375-73-5	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-SB30-12.5-13.5 FT-0-230 **Lab ID:** 10652169017 Collected: 05/03/23 15:30 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	109	%	25-150	10	05/17/23 10:14	05/22/23 20:22	355-46-4	
13C3HFPO-DA (S)	109	%	25-150	10	05/17/23 10:14	05/22/23 20:22		
13C4-PFBA (S)	100	%	25-150	10	05/17/23 10:14	05/22/23 20:22	375-22-4	
13C4-PFHpA (S)	111	%	25-150	10	05/17/23 10:14	05/22/23 20:22	375-85-9	
13C5-PFHxA (S)	108	%	25-150	10	05/17/23 10:14	05/22/23 20:22	307-24-4	
13C5-PFPeA (S)	105	%	25-150	10	05/17/23 10:14	05/22/23 20:22	2706-90-3	
13C6-PFDA (S)	137	%	25-150	10	05/17/23 10:14	05/22/23 20:22	335-76-2	
13C7-PFUdA (S)	137	%	25-150	10	05/17/23 10:14	05/22/23 20:22	2058-94-8	
13C8-PFOA (S)	122	%	25-150	10	05/17/23 10:14	05/22/23 20:22	335-67-1	
13C8-PFOS (S)	155	%	25-150	10	05/17/23 10:14	05/22/23 20:22	1763-23-1	S4
13C8-PFOSA (S)	122	%	25-150	10	05/17/23 10:14	05/22/23 20:22	754-91-6	
13C9-PFNA (S)	161	%	25-150	10	05/17/23 10:14	05/22/23 20:22	375-95-1	S4
d3-MeFOSAA (S)	116	%	25-150	10	05/17/23 10:14	05/22/23 20:22	2355-31-9	
d3-NMeFOSA (S)	97	%	10-150	10	05/17/23 10:14	05/22/23 20:22	31506-32-8	
d5-EtFOSAA (S)	136	%	25-150	10	05/17/23 10:14	05/22/23 20:22	2991-50-6	
d5-NEtFOSA (S)	112	%	10-150	10	05/17/23 10:14	05/22/23 20:22	4151-50-2	
d7-NMeFOSE (S)	87	%	10-150	10	05/17/23 10:14	05/22/23 20:22	24448-09-7	
d9-NEtFOSE (S)	97	%	10-150	10	05/17/23 10:14	05/22/23 20:22	1691-99-2	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-SB30-19-20 FT-0-230503 **Lab ID:** 10652169018 Collected: 05/03/23 15:45 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	3.4	%	0.10	1		05/25/23 14:04		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.95	10	05/17/23 10:14	05/22/23 20:29	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.95	10	05/17/23 10:14	05/22/23 20:29	757124-72-4	N2
6:2 FTS	ND	ug/kg	0.96	10	05/17/23 10:14	05/22/23 20:29	27619-97-2	N2
8:2 FTS	ND	ug/kg	0.98	10	05/17/23 10:14	05/22/23 20:29	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.94	10	05/17/23 10:14	05/22/23 20:29	756426-58-1	N2
ADONA	ND	ug/kg	0.96	10	05/17/23 10:14	05/22/23 20:29	919005-14-4	N2
HFPO-DA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:29	13252-13-6	N2
NEtFOSAA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:29	2991-50-6	N2
NEtFOSA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:29	4151-50-2	N2
NEtFOSE	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:29	1691-99-2	N2
NMeFOSAA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:29	2355-31-9	N2
NMeFOSA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:29	31506-32-8	N2
NMeFOSE	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:29	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.90	10	05/17/23 10:14	05/22/23 20:29	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:29	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:29	307-24-4	N2
PFBA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:29	375-22-4	N2
PFDS	ND	ug/kg	0.98	10	05/17/23 10:14	05/22/23 20:29	335-77-3	N2
PFDoS	ND	ug/kg	0.98	10	05/17/23 10:14	05/22/23 20:29	79780-39-5	N2
PFHpS	ND	ug/kg	0.96	10	05/17/23 10:14	05/22/23 20:29	375-92-8	N2
PFNS	ND	ug/kg	0.97	10	05/17/23 10:14	05/22/23 20:29	68259-12-1	N2
PFOSA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:29	754-91-6	N2
PFPeA	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:29	2706-90-3	N2
PFPeS	ND	ug/kg	0.95	10	05/17/23 10:14	05/22/23 20:29	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:29	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:29	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/kg	0.92	10	05/17/23 10:14	05/22/23 20:29	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:29	375-95-1	N2
Perfluorooctanesulfonic acid	12.9	ug/kg	0.94	10	05/17/23 10:14	05/22/23 20:29	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:29	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:29	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:29	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	1.0	10	05/17/23 10:14	05/22/23 20:29	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	129	%	25-150	10	05/17/23 10:14	05/22/23 20:29		
13C2-PFTA (S)	129	%	25-150	10	05/17/23 10:14	05/22/23 20:29		
13C24:2FTS (S)	104	%	25-150	10	05/17/23 10:14	05/22/23 20:29		
13C26:2FTS (S)	104	%	25-150	10	05/17/23 10:14	05/22/23 20:29		
13C28:2FTS (S)	116	%	25-150	10	05/17/23 10:14	05/22/23 20:29		
13C3-PFBS (S)	111	%	25-150	10	05/17/23 10:14	05/22/23 20:29	375-73-5	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-SB30-19-20 FT-0-230503 **Lab ID:** 10652169018 Collected: 05/03/23 15:45 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	122	%	25-150	10	05/17/23 10:14	05/22/23 20:29	355-46-4	
13C3HFPO-DA (S)	113	%	25-150	10	05/17/23 10:14	05/22/23 20:29		
13C4-PFBA (S)	102	%	25-150	10	05/17/23 10:14	05/22/23 20:29	375-22-4	
13C4-PFHpA (S)	120	%	25-150	10	05/17/23 10:14	05/22/23 20:29	375-85-9	
13C5-PFHxA (S)	115	%	25-150	10	05/17/23 10:14	05/22/23 20:29	307-24-4	
13C5-PFPeA (S)	109	%	25-150	10	05/17/23 10:14	05/22/23 20:29	2706-90-3	
13C6-PFDA (S)	135	%	25-150	10	05/17/23 10:14	05/22/23 20:29	335-76-2	
13C7-PFUdA (S)	129	%	25-150	10	05/17/23 10:14	05/22/23 20:29	2058-94-8	
13C8-PFOA (S)	126	%	25-150	10	05/17/23 10:14	05/22/23 20:29	335-67-1	
13C8-PFOS (S)	147	%	25-150	10	05/17/23 10:14	05/22/23 20:29	1763-23-1	
13C8-PFOSA (S)	126	%	25-150	10	05/17/23 10:14	05/22/23 20:29	754-91-6	
13C9-PFNA (S)	170	%	25-150	10	05/17/23 10:14	05/22/23 20:29	375-95-1	S4
d3-MeFOSAA (S)	127	%	25-150	10	05/17/23 10:14	05/22/23 20:29	2355-31-9	
d3-NMeFOSA (S)	116	%	10-150	10	05/17/23 10:14	05/22/23 20:29	31506-32-8	
d5-EtFOSAA (S)	123	%	25-150	10	05/17/23 10:14	05/22/23 20:29	2991-50-6	
d5-NEtFOSA (S)	80	%	10-150	10	05/17/23 10:14	05/22/23 20:29	4151-50-2	
d7-NMeFOSE (S)	92	%	10-150	10	05/17/23 10:14	05/22/23 20:29	24448-09-7	
d9-NEtFOSE (S)	97	%	10-150	10	05/17/23 10:14	05/22/23 20:29	1691-99-2	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-SB31-1-2 FT-0-230502 **Lab ID:** 10652169019 Collected: 05/02/23 07:55 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	3.4	%	0.10	1		05/25/23 14:04		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.094	1	05/17/23 10:14	06/06/23 17:35	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.094	1	05/17/23 10:14	06/06/23 17:35	757124-72-4	N2
6:2 FTS	ND	ug/kg	0.095	1	05/17/23 10:14	06/06/23 17:35	27619-97-2	N2
8:2 FTS	ND	ug/kg	0.097	1	05/17/23 10:14	06/06/23 17:35	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.093	1	05/17/23 10:14	06/06/23 17:35	756426-58-1	N2
ADONA	ND	ug/kg	0.095	1	05/17/23 10:14	06/06/23 17:35	919005-14-4	N2
HFPO-DA	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:35	13252-13-6	N2
NEtFOSAA	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:35	2991-50-6	N2
NEtFOSE	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:35	4151-50-2	N2
NEtFOSE	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:35	1691-99-2	N2
NMeFOSAA	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:35	2355-31-9	N2
NMeFOSA	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:35	31506-32-8	N2
NMeFOSE	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:35	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.089	1	05/17/23 10:14	06/06/23 17:35	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:35	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:35	307-24-4	N2
PFBA	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:35	375-22-4	N2
PFDS	ND	ug/kg	0.097	1	05/17/23 10:14	06/06/23 17:35	335-77-3	N2
PFDoS	ND	ug/kg	0.097	1	05/17/23 10:14	06/06/23 17:35	79780-39-5	N2
PFHpS	ND	ug/kg	0.095	1	05/17/23 10:14	06/06/23 17:35	375-92-8	N2
PFNS	ND	ug/kg	0.096	1	05/17/23 10:14	06/06/23 17:35	68259-12-1	N2
PFOSA	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:35	754-91-6	N2
PFPeA	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:35	2706-90-3	N2
PFPeS	ND	ug/kg	0.094	1	05/17/23 10:14	06/06/23 17:35	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:35	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:35	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/kg	0.091	1	05/17/23 10:14	06/06/23 17:35	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:35	375-95-1	N2
Perfluorooctanesulfonic acid	ND	ug/kg	0.093	1	05/17/23 10:14	06/06/23 17:35	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:35	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:35	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:35	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	0.10	1	05/17/23 10:14	06/06/23 17:35	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	84	%	25-150	1	05/17/23 10:14	06/06/23 17:35		
13C2-PFTA (S)	78	%	25-150	1	05/17/23 10:14	06/06/23 17:35		
13C24:2FTS (S)	73	%	25-150	1	05/17/23 10:14	06/06/23 17:35		
13C26:2FTS (S)	96	%	25-150	1	05/17/23 10:14	06/06/23 17:35		
13C28:2FTS (S)	85	%	25-150	1	05/17/23 10:14	06/06/23 17:35		
13C3-PFBS (S)	84	%	25-150	1	05/17/23 10:14	06/06/23 17:35	375-73-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-SB31-1-2 FT-0-230502 **Lab ID:** 10652169019 Collected: 05/02/23 07:55 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	84	%	25-150	1	05/17/23 10:14	06/06/23 17:35	355-46-4	
13C3HFPO-DA (S)	90	%	25-150	1	05/17/23 10:14	06/06/23 17:35		
13C4-PFBA (S)	81	%	25-150	1	05/17/23 10:14	06/06/23 17:35	375-22-4	
13C4-PFHpA (S)	80	%	25-150	1	05/17/23 10:14	06/06/23 17:35	375-85-9	
13C5-PFHxA (S)	86	%	25-150	1	05/17/23 10:14	06/06/23 17:35	307-24-4	
13C5-PFPeA (S)	85	%	25-150	1	05/17/23 10:14	06/06/23 17:35	2706-90-3	
13C6-PFDA (S)	83	%	25-150	1	05/17/23 10:14	06/06/23 17:35	335-76-2	
13C7-PFUdA (S)	82	%	25-150	1	05/17/23 10:14	06/06/23 17:35	2058-94-8	
13C8-PFOA (S)	80	%	25-150	1	05/17/23 10:14	06/06/23 17:35	335-67-1	
13C8-PFOS (S)	85	%	25-150	1	05/17/23 10:14	06/06/23 17:35	1763-23-1	
13C8-PFOSA (S)	85	%	25-150	1	05/17/23 10:14	06/06/23 17:35	754-91-6	
13C9-PFNA (S)	83	%	25-150	1	05/17/23 10:14	06/06/23 17:35	375-95-1	
d3-MeFOSAA (S)	82	%	25-150	1	05/17/23 10:14	06/06/23 17:35	2355-31-9	
d3-NMeFOSA (S)	77	%	10-150	1	05/17/23 10:14	06/06/23 17:35	31506-32-8	
d5-EtFOSAA (S)	90	%	25-150	1	05/17/23 10:14	06/06/23 17:35	2991-50-6	
d5-NEtFOSA (S)	76	%	10-150	1	05/17/23 10:14	06/06/23 17:35	4151-50-2	
d7-NMeFOSE (S)	83	%	10-150	1	05/17/23 10:14	06/06/23 17:35	24448-09-7	
d9-NEtFOSE (S)	72	%	10-150	1	05/17/23 10:14	06/06/23 17:35	1691-99-2	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-SB31-9-10 FT-DB-230502 **Lab ID:** 10652169020 Collected: 05/02/23 08:05 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	8.8	%	0.10	1		05/25/23 14:04		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:47	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:47	757124-72-4	N2
6:2 FTS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:47	27619-97-2	N2
8:2 FTS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:47	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:47	756426-58-1	N2
ADONA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:47	919005-14-4	N2
HFPO-DA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 12:47	13252-13-6	N2
NEtFOSAA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 12:47	2991-50-6	N2
NEtFOSA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 12:47	4151-50-2	N2
NEtFOSE	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 12:47	1691-99-2	N2
NMeFOSAA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 12:47	2355-31-9	N2
NMeFOSA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 12:47	31506-32-8	N2
NMeFOSE	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 12:47	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.096	1	05/18/23 15:05	06/06/23 12:47	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 12:47	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 12:47	307-24-4	N2
PFBA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 12:47	375-22-4	N2
PFDS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:47	335-77-3	N2
PFDoS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:47	79780-39-5	N2
PFHpS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:47	375-92-8	N2
PFNS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:47	68259-12-1	N2
PFOSA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 12:47	754-91-6	N2
PFPeA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 12:47	2706-90-3	N2
PFPeS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:47	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 12:47	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 12:47	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/kg	0.098	1	05/18/23 15:05	06/06/23 12:47	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 12:47	375-95-1	N2
Perfluorooctanesulfonic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:47	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 12:47	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 12:47	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 12:47	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 12:47	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	102	%	25-150	1	05/18/23 15:05	06/06/23 12:47		
13C2-PFTA (S)	97	%	25-150	1	05/18/23 15:05	06/06/23 12:47		
13C24:2FTS (S)	100	%	25-150	1	05/18/23 15:05	06/06/23 12:47		
13C26:2FTS (S)	117	%	25-150	1	05/18/23 15:05	06/06/23 12:47		
13C28:2FTS (S)	114	%	25-150	1	05/18/23 15:05	06/06/23 12:47		
13C3-PFBS (S)	107	%	25-150	1	05/18/23 15:05	06/06/23 12:47	375-73-5	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-SB31-9-10 FT-DB-230502 **Lab ID:** 10652169020 Collected: 05/02/23 08:05 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	104	%	25-150	1	05/18/23 15:05	06/06/23 12:47	355-46-4	
13C3HFPO-DA (S)	110	%	25-150	1	05/18/23 15:05	06/06/23 12:47		
13C4-PFBA (S)	105	%	25-150	1	05/18/23 15:05	06/06/23 12:47	375-22-4	
13C4-PFHpA (S)	100	%	25-150	1	05/18/23 15:05	06/06/23 12:47	375-85-9	
13C5-PFHxA (S)	108	%	25-150	1	05/18/23 15:05	06/06/23 12:47	307-24-4	
13C5-PFPeA (S)	108	%	25-150	1	05/18/23 15:05	06/06/23 12:47	2706-90-3	
13C6-PFDA (S)	98	%	25-150	1	05/18/23 15:05	06/06/23 12:47	335-76-2	
13C7-PFUdA (S)	97	%	25-150	1	05/18/23 15:05	06/06/23 12:47	2058-94-8	
13C8-PFOA (S)	98	%	25-150	1	05/18/23 15:05	06/06/23 12:47	335-67-1	
13C8-PFOS (S)	110	%	25-150	1	05/18/23 15:05	06/06/23 12:47	1763-23-1	
13C8-PFOSA (S)	97	%	25-150	1	05/18/23 15:05	06/06/23 12:47	754-91-6	
13C9-PFNA (S)	101	%	25-150	1	05/18/23 15:05	06/06/23 12:47	375-95-1	
d3-MeFOSAA (S)	100	%	25-150	1	05/18/23 15:05	06/06/23 12:47	2355-31-9	
d3-NMeFOSA (S)	82	%	10-150	1	05/18/23 15:05	06/06/23 12:47	31506-32-8	
d5-EtFOSAA (S)	111	%	25-150	1	05/18/23 15:05	06/06/23 12:47	2991-50-6	
d5-NEtFOSA (S)	78	%	10-150	1	05/18/23 15:05	06/06/23 12:47	4151-50-2	
d7-NMeFOSE (S)	97	%	10-150	1	05/18/23 15:05	06/06/23 12:47	24448-09-7	
d9-NEtFOSE (S)	88	%	10-150	1	05/18/23 15:05	06/06/23 12:47	1691-99-2	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-SB32-1-2 FT-0-230503 **Lab ID:** 10652169021 Collected: 05/03/23 15:25 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	3.9	%	0.10	1		05/25/23 15:39		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.097	1	05/18/23 15:05	06/06/23 12:54	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.097	1	05/18/23 15:05	06/06/23 12:54	757124-72-4	N2
6:2 FTS	ND	ug/kg	0.098	1	05/18/23 15:05	06/06/23 12:54	27619-97-2	N2
8:2 FTS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:54	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.096	1	05/18/23 15:05	06/06/23 12:54	756426-58-1	N2
ADONA	ND	ug/kg	0.098	1	05/18/23 15:05	06/06/23 12:54	919005-14-4	N2
HFPO-DA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:54	13252-13-6	N2
NEtFOSAA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:54	2991-50-6	N2
NEtFOSA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:54	4151-50-2	N2
NEtFOSE	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:54	1691-99-2	N2
NMeFOSAA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:54	2355-31-9	N2
NMeFOSA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:54	31506-32-8	N2
NMeFOSE	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:54	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.092	1	05/18/23 15:05	06/06/23 12:54	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:54	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:54	307-24-4	N2
PFBA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:54	375-22-4	N2
PFDS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:54	335-77-3	N2
PFDoS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:54	79780-39-5	N2
PFHpS	ND	ug/kg	0.098	1	05/18/23 15:05	06/06/23 12:54	375-92-8	N2
PFNS	ND	ug/kg	0.099	1	05/18/23 15:05	06/06/23 12:54	68259-12-1	N2
PFOSA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:54	754-91-6	N2
PFPeA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:54	2706-90-3	N2
PFPeS	ND	ug/kg	0.097	1	05/18/23 15:05	06/06/23 12:54	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:54	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:54	375-85-9	N2
Perfluorohexanesulfonic acid	0.61	ug/kg	0.094	1	05/18/23 15:05	06/06/23 12:54	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:54	375-95-1	N2
Perfluorooctanesulfonic acid	ND	ug/kg	0.096	1	05/18/23 15:05	06/06/23 12:54	1763-23-1	N2
Perfluorooctanoic acid	0.19	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:54	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:54	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:54	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 12:54	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	98	%	25-150	1	05/18/23 15:05	06/06/23 12:54		
13C2-PFTA (S)	93	%	25-150	1	05/18/23 15:05	06/06/23 12:54		
13C24:2FTS (S)	98	%	25-150	1	05/18/23 15:05	06/06/23 12:54		
13C26:2FTS (S)	104	%	25-150	1	05/18/23 15:05	06/06/23 12:54		
13C28:2FTS (S)	102	%	25-150	1	05/18/23 15:05	06/06/23 12:54		
13C3-PFBS (S)	101	%	25-150	1	05/18/23 15:05	06/06/23 12:54	375-73-5	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-SB32-1-2 FT-0-230503 **Lab ID:** 10652169021 Collected: 05/03/23 15:25 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	96	%	25-150	1	05/18/23 15:05	06/06/23 12:54	355-46-4	
13C3HFPO-DA (S)	101	%	25-150	1	05/18/23 15:05	06/06/23 12:54		
13C4-PFBA (S)	98	%	25-150	1	05/18/23 15:05	06/06/23 12:54	375-22-4	
13C4-PFHpA (S)	91	%	25-150	1	05/18/23 15:05	06/06/23 12:54	375-85-9	
13C5-PFHxA (S)	99	%	25-150	1	05/18/23 15:05	06/06/23 12:54	307-24-4	
13C5-PFPeA (S)	100	%	25-150	1	05/18/23 15:05	06/06/23 12:54	2706-90-3	
13C6-PFDA (S)	91	%	25-150	1	05/18/23 15:05	06/06/23 12:54	335-76-2	
13C7-PFUdA (S)	82	%	25-150	1	05/18/23 15:05	06/06/23 12:54	2058-94-8	
13C8-PFOA (S)	88	%	25-150	1	05/18/23 15:05	06/06/23 12:54	335-67-1	
13C8-PFOS (S)	100	%	25-150	1	05/18/23 15:05	06/06/23 12:54	1763-23-1	
13C8-PFOSA (S)	94	%	25-150	1	05/18/23 15:05	06/06/23 12:54	754-91-6	
13C9-PFNA (S)	91	%	25-150	1	05/18/23 15:05	06/06/23 12:54	375-95-1	
d3-MeFOSAA (S)	100	%	25-150	1	05/18/23 15:05	06/06/23 12:54	2355-31-9	
d3-NMeFOSA (S)	89	%	10-150	1	05/18/23 15:05	06/06/23 12:54	31506-32-8	
d5-EtFOSAA (S)	111	%	25-150	1	05/18/23 15:05	06/06/23 12:54	2991-50-6	
d5-NEtFOSA (S)	91	%	10-150	1	05/18/23 15:05	06/06/23 12:54	4151-50-2	
d7-NMeFOSE (S)	90	%	10-150	1	05/18/23 15:05	06/06/23 12:54	24448-09-7	
d9-NEtFOSE (S)	84	%	10-150	1	05/18/23 15:05	06/06/23 12:54	1691-99-2	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie
Pace Project No.: 10652169

Sample: MEWI-S-SB32-9-10 FT-0-230503 **Lab ID:** 10652169022 Collected: 05/03/23 15:30 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	6.6	%	0.10	1		05/25/23 15:40		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.099	1	05/18/23 15:05	06/06/23 14:05	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.099	1	05/18/23 15:05	06/06/23 14:05	757124-72-4	N2
6:2 FTS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:05	27619-97-2	N2
8:2 FTS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:05	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.098	1	05/18/23 15:05	06/06/23 14:05	756426-58-1	N2
ADONA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:05	919005-14-4	N2
HFPO-DA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:05	13252-13-6	N2
NEtFOSAA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:05	2991-50-6	N2
NEtFOSA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:05	4151-50-2	N2
NEtFOSE	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:05	1691-99-2	N2
NMeFOSAA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:05	2355-31-9	N2
NMeFOSA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:05	31506-32-8	N2
NMeFOSE	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:05	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.094	1	05/18/23 15:05	06/06/23 14:05	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:05	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:05	307-24-4	N2
PFBA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:05	375-22-4	N2
PFDS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:05	335-77-3	N2
PFDoS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:05	79780-39-5	N2
PFHpS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:05	375-92-8	N2
PFNS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:05	68259-12-1	N2
PFOSA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:05	754-91-6	N2
PFPeA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:05	2706-90-3	N2
PFPeS	ND	ug/kg	0.099	1	05/18/23 15:05	06/06/23 14:05	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:05	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:05	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/kg	0.096	1	05/18/23 15:05	06/06/23 14:05	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:05	375-95-1	N2
Perfluorooctanesulfonic acid	ND	ug/kg	0.098	1	05/18/23 15:05	06/06/23 14:05	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:05	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:05	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:05	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:05	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	82	%	25-150	1	05/18/23 15:05	06/06/23 14:05		
13C2-PFTA (S)	83	%	25-150	1	05/18/23 15:05	06/06/23 14:05		
13C24:2FTS (S)	86	%	25-150	1	05/18/23 15:05	06/06/23 14:05		
13C26:2FTS (S)	97	%	25-150	1	05/18/23 15:05	06/06/23 14:05		
13C28:2FTS (S)	87	%	25-150	1	05/18/23 15:05	06/06/23 14:05		
13C3-PFBS (S)	89	%	25-150	1	05/18/23 15:05	06/06/23 14:05	375-73-5	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-SB32-9-10 FT-0-230503 **Lab ID:** 10652169022 Collected: 05/03/23 15:30 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	88	%	25-150	1	05/18/23 15:05	06/06/23 14:05	355-46-4	
13C3HFPO-DA (S)	98	%	25-150	1	05/18/23 15:05	06/06/23 14:05		
13C4-PFBA (S)	86	%	25-150	1	05/18/23 15:05	06/06/23 14:05	375-22-4	
13C4-PFHpA (S)	83	%	25-150	1	05/18/23 15:05	06/06/23 14:05	375-85-9	
13C5-PFHxA (S)	90	%	25-150	1	05/18/23 15:05	06/06/23 14:05	307-24-4	
13C5-PFPeA (S)	91	%	25-150	1	05/18/23 15:05	06/06/23 14:05	2706-90-3	
13C6-PFDA (S)	78	%	25-150	1	05/18/23 15:05	06/06/23 14:05	335-76-2	
13C7-PFUdA (S)	79	%	25-150	1	05/18/23 15:05	06/06/23 14:05	2058-94-8	
13C8-PFOA (S)	84	%	25-150	1	05/18/23 15:05	06/06/23 14:05	335-67-1	
13C8-PFOS (S)	93	%	25-150	1	05/18/23 15:05	06/06/23 14:05	1763-23-1	
13C8-PFOSA (S)	85	%	25-150	1	05/18/23 15:05	06/06/23 14:05	754-91-6	
13C9-PFNA (S)	86	%	25-150	1	05/18/23 15:05	06/06/23 14:05	375-95-1	
d3-MeFOSAA (S)	91	%	25-150	1	05/18/23 15:05	06/06/23 14:05	2355-31-9	
d3-NMeFOSA (S)	77	%	10-150	1	05/18/23 15:05	06/06/23 14:05	31506-32-8	
d5-EtFOSAA (S)	98	%	25-150	1	05/18/23 15:05	06/06/23 14:05	2991-50-6	
d5-NEtFOSA (S)	80	%	10-150	1	05/18/23 15:05	06/06/23 14:05	4151-50-2	
d7-NMeFOSE (S)	82	%	10-150	1	05/18/23 15:05	06/06/23 14:05	24448-09-7	
d9-NEtFOSE (S)	76	%	10-150	1	05/18/23 15:05	06/06/23 14:05	1691-99-2	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-MW2-4.5-5.5 FT-0-230504 **Lab ID:** 10652169023 Collected: 05/04/23 08:40 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	5.5	%	0.10	1		05/25/23 15:40		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.097	1	05/18/23 15:05	06/06/23 14:12	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.097	1	05/18/23 15:05	06/06/23 14:12	757124-72-4	N2
6:2 FTS	ND	ug/kg	0.098	1	05/18/23 15:05	06/06/23 14:12	27619-97-2	N2
8:2 FTS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:12	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.096	1	05/18/23 15:05	06/06/23 14:12	756426-58-1	N2
ADONA	ND	ug/kg	0.098	1	05/18/23 15:05	06/06/23 14:12	919005-14-4	N2
HFPO-DA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:12	13252-13-6	N2
NEtFOSAA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:12	2991-50-6	N2
NEtFOSA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:12	4151-50-2	N2
NEtFOSE	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:12	1691-99-2	N2
NMeFOSAA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:12	2355-31-9	N2
NMeFOSA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:12	31506-32-8	N2
NMeFOSE	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:12	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.092	1	05/18/23 15:05	06/06/23 14:12	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:12	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:12	307-24-4	N2
PFBA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:12	375-22-4	N2
PFDS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:12	335-77-3	N2
PFDoS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:12	79780-39-5	N2
PFHpS	ND	ug/kg	0.098	1	05/18/23 15:05	06/06/23 14:12	375-92-8	N2
PFNS	ND	ug/kg	0.099	1	05/18/23 15:05	06/06/23 14:12	68259-12-1	N2
PFOSA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:12	754-91-6	N2
PFPeA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:12	2706-90-3	N2
PFPeS	ND	ug/kg	0.097	1	05/18/23 15:05	06/06/23 14:12	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:12	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:12	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/kg	0.094	1	05/18/23 15:05	06/06/23 14:12	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:12	375-95-1	N2
Perfluorooctanesulfonic acid	2.5	ug/kg	0.096	1	05/18/23 15:05	06/06/23 14:12	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:12	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:12	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:12	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:12	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	97	%	25-150	1	05/18/23 15:05	06/06/23 14:12		
13C2-PFTA (S)	96	%	25-150	1	05/18/23 15:05	06/06/23 14:12		
13C24:2FTS (S)	96	%	25-150	1	05/18/23 15:05	06/06/23 14:12		
13C26:2FTS (S)	110	%	25-150	1	05/18/23 15:05	06/06/23 14:12		
13C28:2FTS (S)	101	%	25-150	1	05/18/23 15:05	06/06/23 14:12		
13C3-PFBS (S)	102	%	25-150	1	05/18/23 15:05	06/06/23 14:12	375-73-5	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-MW2-4.5-5.5 FT-0-230504 **Lab ID:** 10652169023 Collected: 05/04/23 08:40 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	102	%	25-150	1	05/18/23 15:05	06/06/23 14:12	355-46-4	
13C3HFPO-DA (S)	114	%	25-150	1	05/18/23 15:05	06/06/23 14:12		
13C4-PFBA (S)	102	%	25-150	1	05/18/23 15:05	06/06/23 14:12	375-22-4	
13C4-PFHpA (S)	96	%	25-150	1	05/18/23 15:05	06/06/23 14:12	375-85-9	
13C5-PFHxA (S)	104	%	25-150	1	05/18/23 15:05	06/06/23 14:12	307-24-4	
13C5-PFPeA (S)	104	%	25-150	1	05/18/23 15:05	06/06/23 14:12	2706-90-3	
13C6-PFDA (S)	100	%	25-150	1	05/18/23 15:05	06/06/23 14:12	335-76-2	
13C7-PFUdA (S)	94	%	25-150	1	05/18/23 15:05	06/06/23 14:12	2058-94-8	
13C8-PFOA (S)	95	%	25-150	1	05/18/23 15:05	06/06/23 14:12	335-67-1	
13C8-PFOS (S)	105	%	25-150	1	05/18/23 15:05	06/06/23 14:12	1763-23-1	
13C8-PFOSA (S)	98	%	25-150	1	05/18/23 15:05	06/06/23 14:12	754-91-6	
13C9-PFNA (S)	101	%	25-150	1	05/18/23 15:05	06/06/23 14:12	375-95-1	
d3-MeFOSAA (S)	109	%	25-150	1	05/18/23 15:05	06/06/23 14:12	2355-31-9	
d3-NMeFOSA (S)	82	%	10-150	1	05/18/23 15:05	06/06/23 14:12	31506-32-8	
d5-EtFOSAA (S)	114	%	25-150	1	05/18/23 15:05	06/06/23 14:12	2991-50-6	
d5-NEtFOSA (S)	85	%	10-150	1	05/18/23 15:05	06/06/23 14:12	4151-50-2	
d7-NMeFOSE (S)	94	%	10-150	1	05/18/23 15:05	06/06/23 14:12	24448-09-7	
d9-NEtFOSE (S)	93	%	10-150	1	05/18/23 15:05	06/06/23 14:12	1691-99-2	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-MW2-11.5-12.5 FT-0-2305 **Lab ID:** 10652169024 **Collected:** 05/04/23 08:50 **Received:** 05/05/23 15:18 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Pace Analytical Services - Minneapolis								
Percent Moisture	11.6	%	0.10	1		05/25/23 15:40		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	757124-72-4	N2
6:2 FTS	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	27619-97-2	N2
8:2 FTS	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:19	756426-58-1	N2
ADONA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	919005-14-4	N2
HFPO-DA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	13252-13-6	N2
NEtFOSAA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	2991-50-6	N2
NEtFOSA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	4151-50-2	N2
NEtFOSE	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	1691-99-2	N2
NMeFOSAA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	2355-31-9	N2
NMeFOSA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	31506-32-8	N2
NMeFOSE	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:19	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	307-24-4	N2
PFBA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	375-22-4	N2
PFDS	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	335-77-3	N2
PFDoS	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	79780-39-5	N2
PFHpS	0.54	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	375-92-8	N2
PFNS	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	68259-12-1	N2
PFOSA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	754-91-6	N2
PFPeA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	2706-90-3	N2
PFPeS	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	375-85-9	N2
Perfluorohexanesulfonic acid	0.21	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:19	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	375-95-1	N2
Perfluorooctanesulfonic acid	104	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:05	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:19	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	95	%	25-150	1	05/18/23 15:05	06/06/23 14:19		
13C2-PFTA (S)	94	%	25-150	1	05/18/23 15:05	06/06/23 14:19		
13C24:2FTS (S)	88	%	25-150	1	05/18/23 15:05	06/06/23 14:19		
13C26:2FTS (S)	106	%	25-150	1	05/18/23 15:05	06/06/23 14:19		
13C28:2FTS (S)	114	%	25-150	1	05/18/23 15:05	06/06/23 14:19		
13C3-PFBS (S)	101	%	25-150	1	05/18/23 15:05	06/06/23 14:19	375-73-5	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-MW2-11.5-12.5 FT-0-2305 **Lab ID:** 10652169024 Collected: 05/04/23 08:50 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	96	%	25-150	1	05/18/23 15:05	06/06/23 14:19	355-46-4	
13C3HFPO-DA (S)	107	%	25-150	1	05/18/23 15:05	06/06/23 14:19		
13C4-PFBA (S)	101	%	25-150	1	05/18/23 15:05	06/06/23 14:19	375-22-4	
13C4-PFHpA (S)	95	%	25-150	1	05/18/23 15:05	06/06/23 14:19	375-85-9	
13C5-PFHxA (S)	101	%	25-150	1	05/18/23 15:05	06/06/23 14:19	307-24-4	
13C5-PFPeA (S)	103	%	25-150	1	05/18/23 15:05	06/06/23 14:19	2706-90-3	
13C6-PFDA (S)	97	%	25-150	1	05/18/23 15:05	06/06/23 14:19	335-76-2	
13C7-PFUdA (S)	97	%	25-150	1	05/18/23 15:05	06/06/23 14:19	2058-94-8	
13C8-PFOA (S)	91	%	25-150	1	05/18/23 15:05	06/06/23 14:19	335-67-1	
13C8-PFOS (S)	100	%	25-150	1	05/18/23 15:05	06/06/23 14:19	1763-23-1	
13C8-PFOSA (S)	89	%	25-150	1	05/18/23 15:05	06/06/23 14:19	754-91-6	
13C9-PFNA (S)	90	%	25-150	1	05/18/23 15:05	06/06/23 14:19	375-95-1	
d3-MeFOSAA (S)	93	%	25-150	1	05/18/23 15:05	06/06/23 14:19	2355-31-9	
d3-NMeFOSA (S)	32	%	10-150	1	05/18/23 15:05	06/06/23 14:19	31506-32-8	
d5-EtFOSAA (S)	107	%	25-150	1	05/18/23 15:05	06/06/23 14:19	2991-50-6	
d5-NEtFOSA (S)	29	%	10-150	1	05/18/23 15:05	06/06/23 14:19	4151-50-2	
d7-NMeFOSE (S)	79	%	10-150	1	05/18/23 15:05	06/06/23 14:19	24448-09-7	
d9-NEtFOSE (S)	69	%	10-150	1	05/18/23 15:05	06/06/23 14:19	1691-99-2	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-MW2-59-60 FT-0-230504 **Lab ID:** 10652169025 Collected: 05/04/23 13:15 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	7.5	%	0.10	1		05/25/23 15:40		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.098	1	05/18/23 15:05	06/06/23 14:26	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.098	1	05/18/23 15:05	06/06/23 14:26	757124-72-4	N2
6:2 FTS	ND	ug/kg	0.099	1	05/18/23 15:05	06/06/23 14:26	27619-97-2	N2
8:2 FTS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:26	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.097	1	05/18/23 15:05	06/06/23 14:26	756426-58-1	N2
ADONA	ND	ug/kg	0.099	1	05/18/23 15:05	06/06/23 14:26	919005-14-4	N2
HFPO-DA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:26	13252-13-6	N2
NEtFOSAA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:26	2991-50-6	N2
NEtFOSA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:26	4151-50-2	N2
NEtFOSE	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:26	1691-99-2	N2
NMeFOSAA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:26	2355-31-9	N2
NMeFOSA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:26	31506-32-8	N2
NMeFOSE	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:26	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.093	1	05/18/23 15:05	06/06/23 14:26	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:26	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:26	307-24-4	N2
PFBA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:26	375-22-4	N2
PFDS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:26	335-77-3	N2
PFDoS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:26	79780-39-5	N2
PFHpS	ND	ug/kg	0.099	1	05/18/23 15:05	06/06/23 14:26	375-92-8	N2
PFNS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:26	68259-12-1	N2
PFOSA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:26	754-91-6	N2
PFPeA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:26	2706-90-3	N2
PFPeS	ND	ug/kg	0.098	1	05/18/23 15:05	06/06/23 14:26	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:26	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:26	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/kg	0.095	1	05/18/23 15:05	06/06/23 14:26	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:26	375-95-1	N2
Perfluorooctanesulfonic acid	4.7	ug/kg	0.097	1	05/18/23 15:05	06/06/23 14:26	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:26	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:26	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:26	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 14:26	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	98	%	25-150	1	05/18/23 15:05	06/06/23 14:26		
13C2-PFTA (S)	92	%	25-150	1	05/18/23 15:05	06/06/23 14:26		
13C24:2FTS (S)	94	%	25-150	1	05/18/23 15:05	06/06/23 14:26		
13C26:2FTS (S)	102	%	25-150	1	05/18/23 15:05	06/06/23 14:26		
13C28:2FTS (S)	100	%	25-150	1	05/18/23 15:05	06/06/23 14:26		
13C3-PFBS (S)	101	%	25-150	1	05/18/23 15:05	06/06/23 14:26	375-73-5	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-MW2-59-60 FT-0-230504 **Lab ID:** 10652169025 Collected: 05/04/23 13:15 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	100	%	25-150	1	05/18/23 15:05	06/06/23 14:26	355-46-4	
13C3HFPO-DA (S)	109	%	25-150	1	05/18/23 15:05	06/06/23 14:26		
13C4-PFBA (S)	102	%	25-150	1	05/18/23 15:05	06/06/23 14:26	375-22-4	
13C4-PFHpA (S)	94	%	25-150	1	05/18/23 15:05	06/06/23 14:26	375-85-9	
13C5-PFHxA (S)	101	%	25-150	1	05/18/23 15:05	06/06/23 14:26	307-24-4	
13C5-PFPeA (S)	104	%	25-150	1	05/18/23 15:05	06/06/23 14:26	2706-90-3	
13C6-PFDA (S)	96	%	25-150	1	05/18/23 15:05	06/06/23 14:26	335-76-2	
13C7-PFUdA (S)	93	%	25-150	1	05/18/23 15:05	06/06/23 14:26	2058-94-8	
13C8-PFOA (S)	94	%	25-150	1	05/18/23 15:05	06/06/23 14:26	335-67-1	
13C8-PFOS (S)	100	%	25-150	1	05/18/23 15:05	06/06/23 14:26	1763-23-1	
13C8-PFOSA (S)	97	%	25-150	1	05/18/23 15:05	06/06/23 14:26	754-91-6	
13C9-PFNA (S)	93	%	25-150	1	05/18/23 15:05	06/06/23 14:26	375-95-1	
d3-MeFOSAA (S)	101	%	25-150	1	05/18/23 15:05	06/06/23 14:26	2355-31-9	
d3-NMeFOSA (S)	88	%	10-150	1	05/18/23 15:05	06/06/23 14:26	31506-32-8	
d5-EtFOSAA (S)	113	%	25-150	1	05/18/23 15:05	06/06/23 14:26	2991-50-6	
d5-NEtFOSA (S)	86	%	10-150	1	05/18/23 15:05	06/06/23 14:26	4151-50-2	
d7-NMeFOSE (S)	88	%	10-150	1	05/18/23 15:05	06/06/23 14:26	24448-09-7	
d9-NEtFOSE (S)	85	%	10-150	1	05/18/23 15:05	06/06/23 14:26	1691-99-2	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-MW3-4.5-5.5 FT-0-230503 **Lab ID:** 10652169026 Collected: 05/03/23 08:15 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	6.9	%	0.10	1		05/25/23 15:40		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.99	10	05/18/23 15:05	05/25/23 15:26	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.99	10	05/18/23 15:05	05/25/23 15:26	757124-72-4	N2
6:2 FTS	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:26	27619-97-2	N2
8:2 FTS	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:26	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.98	10	05/18/23 15:05	05/25/23 15:26	756426-58-1	N2
ADONA	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:26	919005-14-4	N2
HFPO-DA	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:26	13252-13-6	N2
NEtFOSAA	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:26	2991-50-6	N2
NEtFOSA	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:26	4151-50-2	N2
NEtFOSE	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:26	1691-99-2	N2
NMeFOSAA	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:26	2355-31-9	N2
NMeFOSA	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:26	31506-32-8	N2
NMeFOSE	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:26	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.93	10	05/18/23 15:05	05/25/23 15:26	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:26	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:26	307-24-4	N2
PFBA	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:26	375-22-4	N2
PFDS	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:26	335-77-3	N2
PFDoS	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:26	79780-39-5	N2
PFHpS	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:26	375-92-8	N2
PFNS	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:26	68259-12-1	N2
PFOSA	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:26	754-91-6	N2
PFPeA	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:26	2706-90-3	N2
PFPeS	ND	ug/kg	0.99	10	05/18/23 15:05	05/25/23 15:26	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:26	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:26	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/kg	0.95	10	05/18/23 15:05	05/25/23 15:26	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:26	375-95-1	N2
Perfluorooctanesulfonic acid	11.3	ug/kg	0.98	10	05/18/23 15:05	05/25/23 15:26	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:26	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:26	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:26	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:26	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	116	%	25-150	10	05/18/23 15:05	05/25/23 15:26		
13C2-PFTA (S)	116	%	25-150	10	05/18/23 15:05	05/25/23 15:26		
13C24:2FTS (S)	0	%	25-150	10	05/18/23 15:05	05/25/23 15:26		S4
13C26:2FTS (S)	0	%	25-150	10	05/18/23 15:05	05/25/23 15:26		S4
13C28:2FTS (S)	90	%	25-150	10	05/18/23 15:05	05/25/23 15:26		
13C3-PFBS (S)	106	%	25-150	10	05/18/23 15:05	05/25/23 15:26	375-73-5	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-MW3-4.5-5.5 FT-0-230503 **Lab ID:** 10652169026 Collected: 05/03/23 08:15 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	101	%	25-150	10	05/18/23 15:05	05/25/23 15:26	355-46-4	
13C3HFPO-DA (S)	99	%	25-150	10	05/18/23 15:05	05/25/23 15:26		
13C4-PFBA (S)	115	%	25-150	10	05/18/23 15:05	05/25/23 15:26	375-22-4	
13C4-PFHpA (S)	119	%	25-150	10	05/18/23 15:05	05/25/23 15:26	375-85-9	
13C5-PFHxA (S)	114	%	25-150	10	05/18/23 15:05	05/25/23 15:26	307-24-4	
13C5-PFPeA (S)	115	%	25-150	10	05/18/23 15:05	05/25/23 15:26	2706-90-3	
13C6-PFDA (S)	123	%	25-150	10	05/18/23 15:05	05/25/23 15:26	335-76-2	
13C7-PFUdA (S)	121	%	25-150	10	05/18/23 15:05	05/25/23 15:26	2058-94-8	
13C8-PFOA (S)	119	%	25-150	10	05/18/23 15:05	05/25/23 15:26	335-67-1	
13C8-PFOS (S)	98	%	25-150	10	05/18/23 15:05	05/25/23 15:26	1763-23-1	
13C8-PFOSA (S)	106	%	25-150	10	05/18/23 15:05	05/25/23 15:26	754-91-6	
13C9-PFNA (S)	109	%	25-150	10	05/18/23 15:05	05/25/23 15:26	375-95-1	
d3-MeFOSAA (S)	102	%	25-150	10	05/18/23 15:05	05/25/23 15:26	2355-31-9	
d3-NMeFOSA (S)	107	%	10-150	10	05/18/23 15:05	05/25/23 15:26	31506-32-8	
d5-EtFOSAA (S)	108	%	25-150	10	05/18/23 15:05	05/25/23 15:26	2991-50-6	
d5-NEtFOSA (S)	90	%	10-150	10	05/18/23 15:05	05/25/23 15:26	4151-50-2	
d7-NMeFOSE (S)	93	%	10-150	10	05/18/23 15:05	05/25/23 15:26	24448-09-7	
d9-NEtFOSE (S)	97	%	10-150	10	05/18/23 15:05	05/25/23 15:26	1691-99-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-MW3-12.5-13.5 FT-0-2305 **Lab ID:** 10652169027 **Collected:** 05/03/23 08:35 **Received:** 05/05/23 15:18 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	9.2	%	0.10	1		05/25/23 15:41		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:33	763051-92-9	N2
4:2 FTS	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:33	757124-72-4	N2
6:2 FTS	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:33	27619-97-2	N2
8:2 FTS	ND	ug/kg	1.1	10	05/18/23 15:05	05/25/23 15:33	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:33	756426-58-1	N2
ADONA	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:33	919005-14-4	N2
HFPO-DA	ND	ug/kg	1.1	10	05/18/23 15:05	05/25/23 15:33	13252-13-6	N2
NEtFOSAA	ND	ug/kg	1.1	10	05/18/23 15:05	05/25/23 15:33	2991-50-6	N2
NEtFOSA	ND	ug/kg	1.1	10	05/18/23 15:05	05/25/23 15:33	4151-50-2	N2
NEtFOSE	ND	ug/kg	1.1	10	05/18/23 15:05	05/25/23 15:33	1691-99-2	N2
NMeFOSAA	ND	ug/kg	1.1	10	05/18/23 15:05	05/25/23 15:33	2355-31-9	N2
NMeFOSA	ND	ug/kg	1.1	10	05/18/23 15:05	05/25/23 15:33	31506-32-8	N2
NMeFOSE	ND	ug/kg	1.1	10	05/18/23 15:05	05/25/23 15:33	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.97	10	05/18/23 15:05	05/25/23 15:33	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	1.1	10	05/18/23 15:05	05/25/23 15:33	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	1.1	10	05/18/23 15:05	05/25/23 15:33	307-24-4	N2
PFBA	ND	ug/kg	1.1	10	05/18/23 15:05	05/25/23 15:33	375-22-4	N2
PFDS	ND	ug/kg	1.1	10	05/18/23 15:05	05/25/23 15:33	335-77-3	N2
PFDoS	ND	ug/kg	1.1	10	05/18/23 15:05	05/25/23 15:33	79780-39-5	N2
PFHpS	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:33	375-92-8	N2
PFNS	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:33	68259-12-1	N2
PFOSA	ND	ug/kg	1.1	10	05/18/23 15:05	05/25/23 15:33	754-91-6	N2
PFPeA	ND	ug/kg	1.1	10	05/18/23 15:05	05/25/23 15:33	2706-90-3	N2
PFPeS	ND	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:33	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	1.1	10	05/18/23 15:05	05/25/23 15:33	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	1.1	10	05/18/23 15:05	05/25/23 15:33	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/kg	0.99	10	05/18/23 15:05	05/25/23 15:33	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	1.1	10	05/18/23 15:05	05/25/23 15:33	375-95-1	N2
Perfluorooctanesulfonic acid	17.3	ug/kg	1.0	10	05/18/23 15:05	05/25/23 15:33	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	1.1	10	05/18/23 15:05	05/25/23 15:33	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	1.1	10	05/18/23 15:05	05/25/23 15:33	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	1.1	10	05/18/23 15:05	05/25/23 15:33	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	1.1	10	05/18/23 15:05	05/25/23 15:33	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	108	%	25-150	10	05/18/23 15:05	05/25/23 15:33		
13C2-PFTA (S)	106	%	25-150	10	05/18/23 15:05	05/25/23 15:33		
13C24:2FTS (S)	0	%	25-150	10	05/18/23 15:05	05/25/23 15:33		S4
13C26:2FTS (S)	0	%	25-150	10	05/18/23 15:05	05/25/23 15:33		S4
13C28:2FTS (S)	94	%	25-150	10	05/18/23 15:05	05/25/23 15:33		
13C3-PFBS (S)	97	%	25-150	10	05/18/23 15:05	05/25/23 15:33	375-73-5	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-MW3-12.5-13.5 FT-0-2305 **Lab ID:** 10652169027 Collected: 05/03/23 08:35 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	94	%	25-150	10	05/18/23 15:05	05/25/23 15:33	355-46-4	
13C3HFPO-DA (S)	92	%	25-150	10	05/18/23 15:05	05/25/23 15:33		
13C4-PFBA (S)	106	%	25-150	10	05/18/23 15:05	05/25/23 15:33	375-22-4	
13C4-PFHpA (S)	105	%	25-150	10	05/18/23 15:05	05/25/23 15:33	375-85-9	
13C5-PFHxA (S)	104	%	25-150	10	05/18/23 15:05	05/25/23 15:33	307-24-4	
13C5-PFPeA (S)	104	%	25-150	10	05/18/23 15:05	05/25/23 15:33	2706-90-3	
13C6-PFDA (S)	116	%	25-150	10	05/18/23 15:05	05/25/23 15:33	335-76-2	
13C7-PFUdA (S)	114	%	25-150	10	05/18/23 15:05	05/25/23 15:33	2058-94-8	
13C8-PFOA (S)	107	%	25-150	10	05/18/23 15:05	05/25/23 15:33	335-67-1	
13C8-PFOS (S)	79	%	25-150	10	05/18/23 15:05	05/25/23 15:33	1763-23-1	
13C8-PFOSA (S)	92	%	25-150	10	05/18/23 15:05	05/25/23 15:33	754-91-6	
13C9-PFNA (S)	95	%	25-150	10	05/18/23 15:05	05/25/23 15:33	375-95-1	
d3-MeFOSAA (S)	93	%	25-150	10	05/18/23 15:05	05/25/23 15:33	2355-31-9	
d3-NMeFOSA (S)	111	%	10-150	10	05/18/23 15:05	05/25/23 15:33	31506-32-8	
d5-EtFOSAA (S)	94	%	25-150	10	05/18/23 15:05	05/25/23 15:33	2991-50-6	
d5-NEtFOSA (S)	110	%	10-150	10	05/18/23 15:05	05/25/23 15:33	4151-50-2	
d7-NMeFOSE (S)	80	%	10-150	10	05/18/23 15:05	05/25/23 15:33	24448-09-7	
d9-NEtFOSE (S)	81	%	10-150	10	05/18/23 15:05	05/25/23 15:33	1691-99-2	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie
Pace Project No.: 10652169

Sample: MEWI-S-MW4-63-64 FT-0-230501 **Lab ID:** 10652169028 **Collected:** 05/01/23 16:35 **Received:** 05/05/23 15:18 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	21.4	%	0.10	1		05/25/23 15:41		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.12	1	05/18/23 15:05	06/06/23 14:52	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.12	1	05/18/23 15:05	06/06/23 14:52	757124-72-4	N2
6:2 FTS	ND	ug/kg	0.12	1	05/18/23 15:05	06/06/23 14:52	27619-97-2	N2
8:2 FTS	ND	ug/kg	0.12	1	05/18/23 15:05	06/06/23 14:52	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.12	1	05/18/23 15:05	06/06/23 14:52	756426-58-1	N2
ADONA	ND	ug/kg	0.12	1	05/18/23 15:05	06/06/23 14:52	919005-14-4	N2
HFPO-DA	ND	ug/kg	0.13	1	05/18/23 15:05	06/06/23 14:52	13252-13-6	N2
NEtFOSAA	ND	ug/kg	0.13	1	05/18/23 15:05	06/06/23 14:52	2991-50-6	N2
NEtFOSA	ND	ug/kg	0.13	1	05/18/23 15:05	06/06/23 14:52	4151-50-2	N2
NEtFOSE	ND	ug/kg	0.13	1	05/18/23 15:05	06/06/23 14:52	1691-99-2	N2
NMeFOSAA	ND	ug/kg	0.13	1	05/18/23 15:05	06/06/23 14:52	2355-31-9	N2
NMeFOSA	ND	ug/kg	0.13	1	05/18/23 15:05	06/06/23 14:52	31506-32-8	N2
NMeFOSE	ND	ug/kg	0.13	1	05/18/23 15:05	06/06/23 14:52	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:52	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	0.13	1	05/18/23 15:05	06/06/23 14:52	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	0.13	1	05/18/23 15:05	06/06/23 14:52	307-24-4	N2
PFBA	ND	ug/kg	0.13	1	05/18/23 15:05	06/06/23 14:52	375-22-4	N2
PFDS	ND	ug/kg	0.12	1	05/18/23 15:05	06/06/23 14:52	335-77-3	N2
PFDoS	ND	ug/kg	0.12	1	05/18/23 15:05	06/06/23 14:52	79780-39-5	N2
PFHpS	ND	ug/kg	0.12	1	05/18/23 15:05	06/06/23 14:52	375-92-8	N2
PFNS	ND	ug/kg	0.12	1	05/18/23 15:05	06/06/23 14:52	68259-12-1	N2
PFOSA	ND	ug/kg	0.13	1	05/18/23 15:05	06/06/23 14:52	754-91-6	N2
PFPeA	ND	ug/kg	0.13	1	05/18/23 15:05	06/06/23 14:52	2706-90-3	N2
PFPeS	ND	ug/kg	0.12	1	05/18/23 15:05	06/06/23 14:52	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	0.13	1	05/18/23 15:05	06/06/23 14:52	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	0.13	1	05/18/23 15:05	06/06/23 14:52	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 14:52	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	0.13	1	05/18/23 15:05	06/06/23 14:52	375-95-1	N2
Perfluorooctanesulfonic acid	ND	ug/kg	0.12	1	05/18/23 15:05	06/06/23 14:52	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	0.13	1	05/18/23 15:05	06/06/23 14:52	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	0.13	1	05/18/23 15:05	06/06/23 14:52	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	0.13	1	05/18/23 15:05	06/06/23 14:52	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	0.13	1	05/18/23 15:05	06/06/23 14:52	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	98	%	25-150	1	05/18/23 15:05	06/06/23 14:52		
13C2-PFTA (S)	67	%	25-150	1	05/18/23 15:05	06/06/23 14:52		
13C24:2FTS (S)	103	%	25-150	1	05/18/23 15:05	06/06/23 14:52		
13C26:2FTS (S)	126	%	25-150	1	05/18/23 15:05	06/06/23 14:52		
13C28:2FTS (S)	114	%	25-150	1	05/18/23 15:05	06/06/23 14:52		
13C3-PFBS (S)	109	%	25-150	1	05/18/23 15:05	06/06/23 14:52	375-73-5	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-MW4-63-64 FT-0-230501 **Lab ID:** 10652169028 Collected: 05/01/23 16:35 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	107	%	25-150	1	05/18/23 15:05	06/06/23 14:52	355-46-4	
13C3HFPO-DA (S)	115	%	25-150	1	05/18/23 15:05	06/06/23 14:52		
13C4-PFBA (S)	110	%	25-150	1	05/18/23 15:05	06/06/23 14:52	375-22-4	
13C4-PFHpA (S)	103	%	25-150	1	05/18/23 15:05	06/06/23 14:52	375-85-9	
13C5-PFHxA (S)	109	%	25-150	1	05/18/23 15:05	06/06/23 14:52	307-24-4	
13C5-PFPeA (S)	112	%	25-150	1	05/18/23 15:05	06/06/23 14:52	2706-90-3	
13C6-PFDA (S)	99	%	25-150	1	05/18/23 15:05	06/06/23 14:52	335-76-2	
13C7-PFUdA (S)	99	%	25-150	1	05/18/23 15:05	06/06/23 14:52	2058-94-8	
13C8-PFOA (S)	103	%	25-150	1	05/18/23 15:05	06/06/23 14:52	335-67-1	
13C8-PFOS (S)	115	%	25-150	1	05/18/23 15:05	06/06/23 14:52	1763-23-1	
13C8-PFOSA (S)	103	%	25-150	1	05/18/23 15:05	06/06/23 14:52	754-91-6	
13C9-PFNA (S)	105	%	25-150	1	05/18/23 15:05	06/06/23 14:52	375-95-1	
d3-MeFOSAA (S)	110	%	25-150	1	05/18/23 15:05	06/06/23 14:52	2355-31-9	
d3-NMeFOSA (S)	23	%	10-150	1	05/18/23 15:05	06/06/23 14:52	31506-32-8	
d5-EtFOSAA (S)	122	%	25-150	1	05/18/23 15:05	06/06/23 14:52	2991-50-6	
d5-NEtFOSA (S)	9	%	10-150	1	05/18/23 15:05	06/06/23 14:52	4151-50-2	S0
d7-NMeFOSE (S)	39	%	10-150	1	05/18/23 15:05	06/06/23 14:52	24448-09-7	
d9-NEtFOSE (S)	27	%	10-150	1	05/18/23 15:05	06/06/23 14:52	1691-99-2	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-MW5-64-65 FT-0-230501 **Lab ID:** 10652169029 **Collected:** 05/01/23 10:10 **Received:** 05/05/23 15:18 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974		Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis						
Percent Moisture	7.3	%	0.10	1		05/25/23 15:41		N2
WI ID SL		Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis						
11CI-PF3OUdS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:16	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:16	757124-72-4	N2
6:2 FTS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:16	27619-97-2	N2
8:2 FTS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:16	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:16	756426-58-1	N2
ADONA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:16	919005-14-4	N2
HFPO-DA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:16	13252-13-6	N2
NEtFOSAA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:16	2991-50-6	N2
NEtFOSA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:16	4151-50-2	N2
NEtFOSE	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:16	1691-99-2	N2
NMeFOSAA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:16	2355-31-9	N2
NMeFOSA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:16	31506-32-8	N2
NMeFOSE	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:16	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.095	1	05/18/23 15:05	06/06/23 15:16	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:16	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:16	307-24-4	N2
PFBA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:16	375-22-4	N2
PFDS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:16	335-77-3	N2
PFDoS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:16	79780-39-5	N2
PFHpS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:16	375-92-8	N2
PFNS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:16	68259-12-1	N2
PFOSA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:16	754-91-6	N2
PFPeA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:16	2706-90-3	N2
PFPeS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:16	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:16	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:16	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/kg	0.098	1	05/18/23 15:05	06/06/23 15:16	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:16	375-95-1	N2
Perfluorooctanesulfonic acid	0.24	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:16	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:16	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:16	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:16	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:16	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	101	%	25-150	1	05/18/23 15:05	06/06/23 15:16		
13C2-PFTA (S)	96	%	25-150	1	05/18/23 15:05	06/06/23 15:16		
13C24:2FTS (S)	86	%	25-150	1	05/18/23 15:05	06/06/23 15:16		
13C26:2FTS (S)	99	%	25-150	1	05/18/23 15:05	06/06/23 15:16		
13C28:2FTS (S)	100	%	25-150	1	05/18/23 15:05	06/06/23 15:16		
13C3-PFBS (S)	95	%	25-150	1	05/18/23 15:05	06/06/23 15:16	375-73-5	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-MW5-64-65 FT-0-230501 **Lab ID:** 10652169029 Collected: 05/01/23 10:10 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	91	%	25-150	1	05/18/23 15:05	06/06/23 15:16	355-46-4	
13C3HFPO-DA (S)	102	%	25-150	1	05/18/23 15:05	06/06/23 15:16		
13C4-PFBA (S)	93	%	25-150	1	05/18/23 15:05	06/06/23 15:16	375-22-4	
13C4-PFHpA (S)	91	%	25-150	1	05/18/23 15:05	06/06/23 15:16	375-85-9	
13C5-PFHxA (S)	98	%	25-150	1	05/18/23 15:05	06/06/23 15:16	307-24-4	
13C5-PFPeA (S)	97	%	25-150	1	05/18/23 15:05	06/06/23 15:16	2706-90-3	
13C6-PFDA (S)	92	%	25-150	1	05/18/23 15:05	06/06/23 15:16	335-76-2	
13C7-PFUdA (S)	93	%	25-150	1	05/18/23 15:05	06/06/23 15:16	2058-94-8	
13C8-PFOA (S)	90	%	25-150	1	05/18/23 15:05	06/06/23 15:16	335-67-1	
13C8-PFOS (S)	101	%	25-150	1	05/18/23 15:05	06/06/23 15:16	1763-23-1	
13C8-PFOSA (S)	94	%	25-150	1	05/18/23 15:05	06/06/23 15:16	754-91-6	
13C9-PFNA (S)	91	%	25-150	1	05/18/23 15:05	06/06/23 15:16	375-95-1	
d3-MeFOSAA (S)	95	%	25-150	1	05/18/23 15:05	06/06/23 15:16	2355-31-9	
d3-NMeFOSA (S)	86	%	10-150	1	05/18/23 15:05	06/06/23 15:16	31506-32-8	
d5-EtFOSAA (S)	102	%	25-150	1	05/18/23 15:05	06/06/23 15:16	2991-50-6	
d5-NEtFOSA (S)	90	%	10-150	1	05/18/23 15:05	06/06/23 15:16	4151-50-2	
d7-NMeFOSE (S)	90	%	10-150	1	05/18/23 15:05	06/06/23 15:16	24448-09-7	
d9-NEtFOSE (S)	85	%	10-150	1	05/18/23 15:05	06/06/23 15:16	1691-99-2	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-MW6-2-3 FT-0-230503 **Lab ID:** 10652169030 Collected: 05/03/23 08:15 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	8.2	%	0.10	1		05/25/23 15:41		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.099	1	05/18/23 15:05	06/06/23 15:23	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.099	1	05/18/23 15:05	06/06/23 15:23	757124-72-4	N2
6:2 FTS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:23	27619-97-2	N2
8:2 FTS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:23	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.098	1	05/18/23 15:05	06/06/23 15:23	756426-58-1	N2
ADONA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:23	919005-14-4	N2
HFPO-DA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:23	13252-13-6	N2
NEtFOSAA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:23	2991-50-6	N2
NEtFOSA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:23	4151-50-2	N2
NEtFOSE	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:23	1691-99-2	N2
NMeFOSAA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:23	2355-31-9	N2
NMeFOSA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:23	31506-32-8	N2
NMeFOSE	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:23	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.094	1	05/18/23 15:05	06/06/23 15:23	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:23	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:23	307-24-4	N2
PFBA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:23	375-22-4	N2
PFDS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:23	335-77-3	N2
PFDoS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:23	79780-39-5	N2
PFHpS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:23	375-92-8	N2
PFNS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:23	68259-12-1	N2
PFOSA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:23	754-91-6	N2
PFPeA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:23	2706-90-3	N2
PFPeS	ND	ug/kg	0.099	1	05/18/23 15:05	06/06/23 15:23	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:23	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:23	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/kg	0.096	1	05/18/23 15:05	06/06/23 15:23	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:23	375-95-1	N2
Perfluorooctanesulfonic acid	0.17	ug/kg	0.098	1	05/18/23 15:05	06/06/23 15:23	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:23	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:23	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:23	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 15:23	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	90	%	25-150	1	05/18/23 15:05	06/06/23 15:23		
13C2-PFTA (S)	85	%	25-150	1	05/18/23 15:05	06/06/23 15:23		
13C24:2FTS (S)	81	%	25-150	1	05/18/23 15:05	06/06/23 15:23		
13C26:2FTS (S)	89	%	25-150	1	05/18/23 15:05	06/06/23 15:23		
13C28:2FTS (S)	94	%	25-150	1	05/18/23 15:05	06/06/23 15:23		
13C3-PFBS (S)	89	%	25-150	1	05/18/23 15:05	06/06/23 15:23	375-73-5	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-MW6-2-3 FT-0-230503 **Lab ID:** 10652169030 Collected: 05/03/23 08:15 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	87	%	25-150	1	05/18/23 15:05	06/06/23 15:23	355-46-4	
13C3HFPO-DA (S)	96	%	25-150	1	05/18/23 15:05	06/06/23 15:23		
13C4-PFBA (S)	88	%	25-150	1	05/18/23 15:05	06/06/23 15:23	375-22-4	
13C4-PFHpA (S)	87	%	25-150	1	05/18/23 15:05	06/06/23 15:23	375-85-9	
13C5-PFHxA (S)	91	%	25-150	1	05/18/23 15:05	06/06/23 15:23	307-24-4	
13C5-PFPeA (S)	90	%	25-150	1	05/18/23 15:05	06/06/23 15:23	2706-90-3	
13C6-PFDA (S)	87	%	25-150	1	05/18/23 15:05	06/06/23 15:23	335-76-2	
13C7-PFUdA (S)	84	%	25-150	1	05/18/23 15:05	06/06/23 15:23	2058-94-8	
13C8-PFOA (S)	83	%	25-150	1	05/18/23 15:05	06/06/23 15:23	335-67-1	
13C8-PFOS (S)	96	%	25-150	1	05/18/23 15:05	06/06/23 15:23	1763-23-1	
13C8-PFOSA (S)	87	%	25-150	1	05/18/23 15:05	06/06/23 15:23	754-91-6	
13C9-PFNA (S)	87	%	25-150	1	05/18/23 15:05	06/06/23 15:23	375-95-1	
d3-MeFOSAA (S)	87	%	25-150	1	05/18/23 15:05	06/06/23 15:23	2355-31-9	
d3-NMeFOSA (S)	77	%	10-150	1	05/18/23 15:05	06/06/23 15:23	31506-32-8	
d5-EtFOSAA (S)	97	%	25-150	1	05/18/23 15:05	06/06/23 15:23	2991-50-6	
d5-NEtFOSA (S)	81	%	10-150	1	05/18/23 15:05	06/06/23 15:23	4151-50-2	
d7-NMeFOSE (S)	78	%	10-150	1	05/18/23 15:05	06/06/23 15:23	24448-09-7	
d9-NEtFOSE (S)	75	%	10-150	1	05/18/23 15:05	06/06/23 15:23	1691-99-2	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-MW6-58-59 FT-0-230503 **Lab ID:** 10652169031 Collected: 05/03/23 09:25 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	3.7	%	0.10	1		05/25/23 15:42		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.096	1	05/18/23 15:05	06/06/23 15:48	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.096	1	05/18/23 15:05	06/06/23 15:48	757124-72-4	N2
6:2 FTS	ND	ug/kg	0.097	1	05/18/23 15:05	06/06/23 15:48	27619-97-2	N2
8:2 FTS	ND	ug/kg	0.099	1	05/18/23 15:05	06/06/23 15:48	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.095	1	05/18/23 15:05	06/06/23 15:48	756426-58-1	N2
ADONA	ND	ug/kg	0.097	1	05/18/23 15:05	06/06/23 15:48	919005-14-4	N2
HFPO-DA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:48	13252-13-6	N2
NEtFOSAA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:48	2991-50-6	N2
NEtFOSA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:48	4151-50-2	N2
NEtFOSE	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:48	1691-99-2	N2
NMeFOSAA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:48	2355-31-9	N2
NMeFOSA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:48	31506-32-8	N2
NMeFOSE	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:48	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.091	1	05/18/23 15:05	06/06/23 15:48	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:48	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:48	307-24-4	N2
PFBA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:48	375-22-4	N2
PFDS	ND	ug/kg	0.099	1	05/18/23 15:05	06/06/23 15:48	335-77-3	N2
PFDoS	ND	ug/kg	0.099	1	05/18/23 15:05	06/06/23 15:48	79780-39-5	N2
PFHpS	ND	ug/kg	0.097	1	05/18/23 15:05	06/06/23 15:48	375-92-8	N2
PFNS	ND	ug/kg	0.098	1	05/18/23 15:05	06/06/23 15:48	68259-12-1	N2
PFOSA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:48	754-91-6	N2
PFPeA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:48	2706-90-3	N2
PFPeS	ND	ug/kg	0.096	1	05/18/23 15:05	06/06/23 15:48	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:48	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:48	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/kg	0.093	1	05/18/23 15:05	06/06/23 15:48	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:48	375-95-1	N2
Perfluorooctanesulfonic acid	ND	ug/kg	0.095	1	05/18/23 15:05	06/06/23 15:48	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:48	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:48	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:48	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 15:48	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	104	%.	25-150	1	05/18/23 15:05	06/06/23 15:48		
13C2-PFTA (S)	92	%.	25-150	1	05/18/23 15:05	06/06/23 15:48		
13C24:2FTS (S)	85	%.	25-150	1	05/18/23 15:05	06/06/23 15:48		
13C26:2FTS (S)	109	%.	25-150	1	05/18/23 15:05	06/06/23 15:48		
13C28:2FTS (S)	100	%.	25-150	1	05/18/23 15:05	06/06/23 15:48		
13C3-PFBS (S)	95	%.	25-150	1	05/18/23 15:05	06/06/23 15:48	375-73-5	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-MW6-58-59 FT-0-230503 **Lab ID:** 10652169031 Collected: 05/03/23 09:25 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	91	%	25-150	1	05/18/23 15:05	06/06/23 15:48	355-46-4	
13C3HFPO-DA (S)	101	%	25-150	1	05/18/23 15:05	06/06/23 15:48		
13C4-PFBA (S)	92	%	25-150	1	05/18/23 15:05	06/06/23 15:48	375-22-4	
13C4-PFHpA (S)	90	%	25-150	1	05/18/23 15:05	06/06/23 15:48	375-85-9	
13C5-PFHxA (S)	96	%	25-150	1	05/18/23 15:05	06/06/23 15:48	307-24-4	
13C5-PFPeA (S)	96	%	25-150	1	05/18/23 15:05	06/06/23 15:48	2706-90-3	
13C6-PFDA (S)	100	%	25-150	1	05/18/23 15:05	06/06/23 15:48	335-76-2	
13C7-PFUdA (S)	95	%	25-150	1	05/18/23 15:05	06/06/23 15:48	2058-94-8	
13C8-PFOA (S)	92	%	25-150	1	05/18/23 15:05	06/06/23 15:48	335-67-1	
13C8-PFOS (S)	98	%	25-150	1	05/18/23 15:05	06/06/23 15:48	1763-23-1	
13C8-PFOSA (S)	95	%	25-150	1	05/18/23 15:05	06/06/23 15:48	754-91-6	
13C9-PFNA (S)	92	%	25-150	1	05/18/23 15:05	06/06/23 15:48	375-95-1	
d3-MeFOSAA (S)	90	%	25-150	1	05/18/23 15:05	06/06/23 15:48	2355-31-9	
d3-NMeFOSA (S)	85	%	10-150	1	05/18/23 15:05	06/06/23 15:48	31506-32-8	
d5-EtFOSAA (S)	103	%	25-150	1	05/18/23 15:05	06/06/23 15:48	2991-50-6	
d5-NEtFOSA (S)	86	%	10-150	1	05/18/23 15:05	06/06/23 15:48	4151-50-2	
d7-NMeFOSE (S)	88	%	10-150	1	05/18/23 15:05	06/06/23 15:48	24448-09-7	
d9-NEtFOSE (S)	82	%	10-150	1	05/18/23 15:05	06/06/23 15:48	1691-99-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-MW7-2-3 FT-0-230502 **Lab ID:** 10652169032 Collected: 05/02/23 09:15 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	7.5	%	0.10	1		05/25/23 15:42		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:16	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:16	757124-72-4	N2
6:2 FTS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:16	27619-97-2	N2
8:2 FTS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:16	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:16	756426-58-1	N2
ADONA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:16	919005-14-4	N2
HFPO-DA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 16:16	13252-13-6	N2
NEtFOSAA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 16:16	2991-50-6	N2
NEtFOSA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 16:16	4151-50-2	N2
NEtFOSE	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 16:16	1691-99-2	N2
NMeFOSAA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 16:16	2355-31-9	N2
NMeFOSA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 16:16	31506-32-8	N2
NMeFOSE	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 16:16	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.096	1	05/18/23 15:05	06/06/23 16:16	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 16:16	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 16:16	307-24-4	N2
PFBA	0.15	ug/kg	0.11	1	05/18/23 15:05	06/06/23 16:16	375-22-4	N2
PFDS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:16	335-77-3	N2
PFDoS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:16	79780-39-5	N2
PFHpS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:16	375-92-8	N2
PFNS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:16	68259-12-1	N2
PFOSA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 16:16	754-91-6	N2
PFPeA	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 16:16	2706-90-3	N2
PFPeS	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:16	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 16:16	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 16:16	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/kg	0.098	1	05/18/23 15:05	06/06/23 16:16	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 16:16	375-95-1	N2
Perfluorooctanesulfonic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:16	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 16:16	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 16:16	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 16:16	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	0.11	1	05/18/23 15:05	06/06/23 16:16	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	91	%	25-150	1	05/18/23 15:05	06/06/23 16:16		
13C2-PFTA (S)	87	%	25-150	1	05/18/23 15:05	06/06/23 16:16		
13C24:2FTS (S)	85	%	25-150	1	05/18/23 15:05	06/06/23 16:16		
13C26:2FTS (S)	105	%	25-150	1	05/18/23 15:05	06/06/23 16:16		
13C28:2FTS (S)	106	%	25-150	1	05/18/23 15:05	06/06/23 16:16		
13C3-PFBS (S)	91	%	25-150	1	05/18/23 15:05	06/06/23 16:16	375-73-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-MW7-2-3 FT-0-230502 **Lab ID:** 10652169032 Collected: 05/02/23 09:15 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	91	%	25-150	1	05/18/23 15:05	06/06/23 16:16	355-46-4	
13C3HFPO-DA (S)	96	%	25-150	1	05/18/23 15:05	06/06/23 16:16		
13C4-PFBA (S)	88	%	25-150	1	05/18/23 15:05	06/06/23 16:16	375-22-4	
13C4-PFHpA (S)	87	%	25-150	1	05/18/23 15:05	06/06/23 16:16	375-85-9	
13C5-PFHxA (S)	92	%	25-150	1	05/18/23 15:05	06/06/23 16:16	307-24-4	
13C5-PFPeA (S)	92	%	25-150	1	05/18/23 15:05	06/06/23 16:16	2706-90-3	
13C6-PFDA (S)	82	%	25-150	1	05/18/23 15:05	06/06/23 16:16	335-76-2	
13C7-PFUdA (S)	88	%	25-150	1	05/18/23 15:05	06/06/23 16:16	2058-94-8	
13C8-PFOA (S)	83	%	25-150	1	05/18/23 15:05	06/06/23 16:16	335-67-1	
13C8-PFOS (S)	94	%	25-150	1	05/18/23 15:05	06/06/23 16:16	1763-23-1	
13C8-PFOSA (S)	85	%	25-150	1	05/18/23 15:05	06/06/23 16:16	754-91-6	
13C9-PFNA (S)	87	%	25-150	1	05/18/23 15:05	06/06/23 16:16	375-95-1	
d3-MeFOSAA (S)	86	%	25-150	1	05/18/23 15:05	06/06/23 16:16	2355-31-9	
d3-NMeFOSA (S)	84	%	10-150	1	05/18/23 15:05	06/06/23 16:16	31506-32-8	
d5-EtFOSAA (S)	95	%	25-150	1	05/18/23 15:05	06/06/23 16:16	2991-50-6	
d5-NEtFOSA (S)	85	%	10-150	1	05/18/23 15:05	06/06/23 16:16	4151-50-2	
d7-NMeFOSE (S)	83	%	10-150	1	05/18/23 15:05	06/06/23 16:16	24448-09-7	
d9-NEtFOSE (S)	80	%	10-150	1	05/18/23 15:05	06/06/23 16:16	1691-99-2	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-MW7-58-59 FT-0-230502 **Lab ID:** 10652169033 Collected: 05/02/23 11:40 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	3.9	%	0.10	1		05/25/23 15:42		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.095	1	05/18/23 15:05	06/06/23 16:37	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.095	1	05/18/23 15:05	06/06/23 16:37	757124-72-4	N2
6:2 FTS	ND	ug/kg	0.096	1	05/18/23 15:05	06/06/23 16:37	27619-97-2	N2
8:2 FTS	ND	ug/kg	0.098	1	05/18/23 15:05	06/06/23 16:37	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.094	1	05/18/23 15:05	06/06/23 16:37	756426-58-1	N2
ADONA	ND	ug/kg	0.096	1	05/18/23 15:05	06/06/23 16:37	919005-14-4	N2
HFPO-DA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:37	13252-13-6	N2
NEtFOSAA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:37	2991-50-6	N2
NEtFOSE	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:37	4151-50-2	N2
NEtFOSE	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:37	1691-99-2	N2
NMeFOSAA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:37	2355-31-9	N2
NMeFOSE	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:37	31506-32-8	N2
NMeFOSE	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:37	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.090	1	05/18/23 15:05	06/06/23 16:37	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:37	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:37	307-24-4	N2
PFBA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:37	375-22-4	N2
PFDS	ND	ug/kg	0.098	1	05/18/23 15:05	06/06/23 16:37	335-77-3	N2
PFDoS	ND	ug/kg	0.098	1	05/18/23 15:05	06/06/23 16:37	79780-39-5	N2
PFHpS	ND	ug/kg	0.096	1	05/18/23 15:05	06/06/23 16:37	375-92-8	N2
PFNS	ND	ug/kg	0.097	1	05/18/23 15:05	06/06/23 16:37	68259-12-1	N2
PFOSA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:37	754-91-6	N2
PFPeA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:37	2706-90-3	N2
PFPeS	ND	ug/kg	0.095	1	05/18/23 15:05	06/06/23 16:37	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:37	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:37	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/kg	0.092	1	05/18/23 15:05	06/06/23 16:37	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:37	375-95-1	N2
Perfluorooctanesulfonic acid	ND	ug/kg	0.094	1	05/18/23 15:05	06/06/23 16:37	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:37	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:37	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:37	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:37	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	95	%	25-150	1	05/18/23 15:05	06/06/23 16:37		
13C2-PFTA (S)	88	%	25-150	1	05/18/23 15:05	06/06/23 16:37		
13C24:2FTS (S)	93	%	25-150	1	05/18/23 15:05	06/06/23 16:37		
13C26:2FTS (S)	101	%	25-150	1	05/18/23 15:05	06/06/23 16:37		
13C28:2FTS (S)	94	%	25-150	1	05/18/23 15:05	06/06/23 16:37		
13C3-PFBS (S)	96	%	25-150	1	05/18/23 15:05	06/06/23 16:37	375-73-5	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-MW7-58-59 FT-0-230502 **Lab ID:** 10652169033 Collected: 05/02/23 11:40 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	94	%	25-150	1	05/18/23 15:05	06/06/23 16:37	355-46-4	
13C3HFPO-DA (S)	102	%	25-150	1	05/18/23 15:05	06/06/23 16:37		
13C4-PFBA (S)	92	%	25-150	1	05/18/23 15:05	06/06/23 16:37	375-22-4	
13C4-PFHpA (S)	89	%	25-150	1	05/18/23 15:05	06/06/23 16:37	375-85-9	
13C5-PFHxA (S)	97	%	25-150	1	05/18/23 15:05	06/06/23 16:37	307-24-4	
13C5-PFPeA (S)	97	%	25-150	1	05/18/23 15:05	06/06/23 16:37	2706-90-3	
13C6-PFDA (S)	83	%	25-150	1	05/18/23 15:05	06/06/23 16:37	335-76-2	
13C7-PFUdA (S)	87	%	25-150	1	05/18/23 15:05	06/06/23 16:37	2058-94-8	
13C8-PFOA (S)	85	%	25-150	1	05/18/23 15:05	06/06/23 16:37	335-67-1	
13C8-PFOS (S)	102	%	25-150	1	05/18/23 15:05	06/06/23 16:37	1763-23-1	
13C8-PFOSA (S)	89	%	25-150	1	05/18/23 15:05	06/06/23 16:37	754-91-6	
13C9-PFNA (S)	88	%	25-150	1	05/18/23 15:05	06/06/23 16:37	375-95-1	
d3-MeFOSAA (S)	86	%	25-150	1	05/18/23 15:05	06/06/23 16:37	2355-31-9	
d3-NMeFOSA (S)	88	%	10-150	1	05/18/23 15:05	06/06/23 16:37	31506-32-8	
d5-EtFOSAA (S)	106	%	25-150	1	05/18/23 15:05	06/06/23 16:37	2991-50-6	
d5-NEtFOSA (S)	86	%	10-150	1	05/18/23 15:05	06/06/23 16:37	4151-50-2	
d7-NMeFOSE (S)	90	%	10-150	1	05/18/23 15:05	06/06/23 16:37	24448-09-7	
d9-NEtFOSE (S)	83	%	10-150	1	05/18/23 15:05	06/06/23 16:37	1691-99-2	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-W-FB1-FB-230501	Lab ID: 10652169034	Collected: 05/01/23 16:05	Received: 05/05/23 15:18	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 14:33	763051-92-9	N2
4:2 FTS	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 14:33	757124-72-4	N2
6:2 FTS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:33	27619-97-2	N2
8:2 FTS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:33	39108-34-4	N2
9CI-PF3ONS	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 14:33	756426-58-1	N2
ADONA	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 14:33	919005-14-4	N2
HFPO-DA	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:33	13252-13-6	N2
NEtFOSAA	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:33	2991-50-6	N2
NEtFOSA	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:33	4151-50-2	N2
NEtFOSE	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:33	1691-99-2	N2
NMeFOSAA	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:33	2355-31-9	N2
NMeFOSA	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:33	31506-32-8	N2
NMeFOSE	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:33	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/L	0.0017	1	05/16/23 13:50	05/19/23 14:33	375-73-5	N2
Perfluorodecanoic acid	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:33	335-76-2	N2
Perfluorohexanoic acid	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:33	307-24-4	N2
PFBA	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:33	375-22-4	N2
PFDS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:33	335-77-3	N2
PFDoS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:33	79780-39-5	N2
PFHpS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:33	375-92-8	N2
PFNS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:33	68259-12-1	N2
PFOSA	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:33	754-91-6	N2
PFPeA	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:33	2706-90-3	N2
PFPeS	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 14:33	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:33	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:33	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 14:33	355-46-4	N2
Perfluorononanoic acid	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:33	375-95-1	N2
Perfluorooctanesulfonic acid	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 14:33	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:33	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:33	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:33	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:33	2058-94-8	N2
Surrogates								
13C4-PFBA (S)	93	%	25-150	1	05/16/23 13:50	05/19/23 14:33	375-22-4	
13C5-PFPeA (S)	96	%	25-150	1	05/16/23 13:50	05/19/23 14:33	2706-90-3	
13C3-PFBS (S)	100	%	25-150	1	05/16/23 13:50	05/19/23 14:33	375-73-5	
13C24:2FTS (S)	100	%	25-150	1	05/16/23 13:50	05/19/23 14:33		
13C3HFPO-DA (S)	100	%	25-150	1	05/16/23 13:50	05/19/23 14:33		
13C4-PFHpA (S)	98	%	25-150	1	05/16/23 13:50	05/19/23 14:33	375-85-9	
13C3-PFHxS (S)	100	%	25-150	1	05/16/23 13:50	05/19/23 14:33	355-46-4	
13C26:2FTS (S)	102	%	25-150	1	05/16/23 13:50	05/19/23 14:33		
13C8-PFOA (S)	97	%	25-150	1	05/16/23 13:50	05/19/23 14:33	335-67-1	
13C8-PFOS (S)	91	%	25-150	1	05/16/23 13:50	05/19/23 14:33	1763-23-1	
13C9-PFNA (S)	93	%	25-150	1	05/16/23 13:50	05/19/23 14:33	375-95-1	
13C6-PFDA (S)	108	%	25-150	1	05/16/23 13:50	05/19/23 14:33	335-76-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-W-FB1-FB-230501 **Lab ID: 10652169034** Collected: 05/01/23 16:05 Received: 05/05/23 15:18 Matrix: Water

Parameters	Results	Units	Report Limit	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

13C28:2FTS (S)	223	%.	25-150	1	05/16/23 13:50	05/19/23 14:33		S3
d3-MeFOSAA (S)	84	%.	25-150	1	05/16/23 13:50	05/19/23 14:33	2355-31-9	
13C7-PFUdA (S)	96	%.	25-150	1	05/16/23 13:50	05/19/23 14:33	2058-94-8	
13C8-PFOSA (S)	81	%.	25-150	1	05/16/23 13:50	05/19/23 14:33	754-91-6	
d5-EtFOSAA (S)	84	%.	25-150	1	05/16/23 13:50	05/19/23 14:33	2991-50-6	
13C2-PFDoA (S)	90	%.	25-150	1	05/16/23 13:50	05/19/23 14:33		
d3-NMeFOSA (S)	53	%.	10-150	1	05/16/23 13:50	05/19/23 14:33	31506-32-8	
d7-NMeFOSE (S)	76	%.	10-150	1	05/16/23 13:50	05/19/23 14:33	24448-09-7	
13C2-PFTA (S)	86	%.	25-150	1	05/16/23 13:50	05/19/23 14:33		
d9-NEtFOSE (S)	71	%.	10-150	1	05/16/23 13:50	05/19/23 14:33	1691-99-2	
d5-NEtFOSA (S)	53	%.	10-150	1	05/16/23 13:50	05/19/23 14:33	4151-50-2	
13C5-PFHxA (S)	97	%.	25-150	1	05/16/23 13:50	05/19/23 14:33	307-24-4	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: **MEWI-W-FB2-FB-230502** Lab ID: **10652169035** Collected: 05/02/23 16:10 Received: 05/05/23 15:18 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:41	763051-92-9	N2
4:2 FTS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:41	757124-72-4	N2
6:2 FTS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:41	27619-97-2	N2
8:2 FTS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:41	39108-34-4	N2
9CI-PF3ONS	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 14:41	756426-58-1	N2
ADONA	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:41	919005-14-4	N2
HFPO-DA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:41	13252-13-6	N2
NEtFOSAA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:41	2991-50-6	N2
NEtFOSA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:41	4151-50-2	N2
NEtFOSE	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:41	1691-99-2	N2
NMeFOSAA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:41	2355-31-9	N2
NMeFOSA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:41	31506-32-8	N2
NMeFOSE	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:41	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 14:41	375-73-5	N2
Perfluorodecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:41	335-76-2	N2
Perfluorohexanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:41	307-24-4	N2
PFBA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:41	375-22-4	N2
PFDS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:41	335-77-3	N2
PFDoS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:41	79780-39-5	N2
PFHpS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:41	375-92-8	N2
PFNS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:41	68259-12-1	N2
PFOSA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:41	754-91-6	N2
PFPeA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:41	2706-90-3	N2
PFPeS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:41	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:41	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:41	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 14:41	355-46-4	N2
Perfluorononanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:41	375-95-1	N2
Perfluorooctanesulfonic acid	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 14:41	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:41	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:41	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:41	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:41	2058-94-8	N2
Surrogates								
13C4-PFBA (S)	91	%	25-150	1	05/16/23 13:50	05/19/23 14:41	375-22-4	
13C5-PFPeA (S)	98	%	25-150	1	05/16/23 13:50	05/19/23 14:41	2706-90-3	
13C3-PFBS (S)	101	%	25-150	1	05/16/23 13:50	05/19/23 14:41	375-73-5	
13C24:2FTS (S)	98	%	25-150	1	05/16/23 13:50	05/19/23 14:41		
13C3HFPO-DA (S)	102	%	25-150	1	05/16/23 13:50	05/19/23 14:41		
13C4-PFHpA (S)	100	%	25-150	1	05/16/23 13:50	05/19/23 14:41	375-85-9	
13C3-PFHxS (S)	101	%	25-150	1	05/16/23 13:50	05/19/23 14:41	355-46-4	
13C26:2FTS (S)	103	%	25-150	1	05/16/23 13:50	05/19/23 14:41		
13C8-PFOA (S)	100	%	25-150	1	05/16/23 13:50	05/19/23 14:41	335-67-1	
13C8-PFOS (S)	85	%	25-150	1	05/16/23 13:50	05/19/23 14:41	1763-23-1	
13C9-PFNA (S)	94	%	25-150	1	05/16/23 13:50	05/19/23 14:41	375-95-1	
13C6-PFDA (S)	108	%	25-150	1	05/16/23 13:50	05/19/23 14:41	335-76-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-W-FB2-FB-230502 **Lab ID: 10652169035** Collected: 05/02/23 16:10 Received: 05/05/23 15:18 Matrix: Water

Parameters	Results	Units	Report Limit	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

13C28:2FTS (S)	258	%.	25-150	1	05/16/23 13:50	05/19/23 14:41		S3
d3-MeFOSAA (S)	75	%.	25-150	1	05/16/23 13:50	05/19/23 14:41	2355-31-9	
13C7-PFUdA (S)	86	%.	25-150	1	05/16/23 13:50	05/19/23 14:41	2058-94-8	
13C8-PFOSA (S)	80	%.	25-150	1	05/16/23 13:50	05/19/23 14:41	754-91-6	
d5-EtFOSAA (S)	75	%.	25-150	1	05/16/23 13:50	05/19/23 14:41	2991-50-6	
13C2-PFDoA (S)	88	%.	25-150	1	05/16/23 13:50	05/19/23 14:41		
d3-NMeFOSA (S)	52	%.	10-150	1	05/16/23 13:50	05/19/23 14:41	31506-32-8	
d7-NMeFOSE (S)	70	%.	10-150	1	05/16/23 13:50	05/19/23 14:41	24448-09-7	
13C2-PFTA (S)	84	%.	25-150	1	05/16/23 13:50	05/19/23 14:41		
d9-NEtFOSE (S)	70	%.	10-150	1	05/16/23 13:50	05/19/23 14:41	1691-99-2	
d5-NEtFOSA (S)	48	%.	10-150	1	05/16/23 13:50	05/19/23 14:41	4151-50-2	
13C5-PFHxA (S)	100	%.	25-150	1	05/16/23 13:50	05/19/23 14:41	307-24-4	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-W-FB3-FB-230504 Lab ID: 10652169036 Collected: 05/04/23 10:00 Received: 05/05/23 15:18 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:48	763051-92-9	N2
4:2 FTS	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 14:48	757124-72-4	N2
6:2 FTS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:48	27619-97-2	N2
8:2 FTS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:48	39108-34-4	N2
9CI-PF3ONS	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 14:48	756426-58-1	N2
ADONA	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:48	919005-14-4	N2
HFPO-DA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:48	13252-13-6	N2
NEtFOSAA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:48	2991-50-6	N2
NEtFOSA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:48	4151-50-2	N2
NEtFOSE	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:48	1691-99-2	N2
NMeFOSAA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:48	2355-31-9	N2
NMeFOSA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:48	31506-32-8	N2
NMeFOSE	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:48	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/L	0.0017	1	05/16/23 13:50	05/19/23 14:48	375-73-5	N2
Perfluorodecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:48	335-76-2	N2
Perfluorohexanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:48	307-24-4	N2
PFBA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:48	375-22-4	N2
PFDS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:48	335-77-3	N2
PFDoS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:48	79780-39-5	N2
PFHpS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:48	375-92-8	N2
PFNS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:48	68259-12-1	N2
PFOSA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:48	754-91-6	N2
PFPeA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:48	2706-90-3	N2
PFPeS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 14:48	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:48	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:48	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 14:48	355-46-4	N2
Perfluorononanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:48	375-95-1	N2
Perfluorooctanesulfonic acid	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 14:48	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:48	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:48	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:48	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 14:48	2058-94-8	N2
Surrogates								
13C4-PFBA (S)	92	%	25-150	1	05/16/23 13:50	05/19/23 14:48	375-22-4	
13C5-PFPeA (S)	99	%	25-150	1	05/16/23 13:50	05/19/23 14:48	2706-90-3	
13C3-PFBS (S)	102	%	25-150	1	05/16/23 13:50	05/19/23 14:48	375-73-5	
13C24:2FTS (S)	102	%	25-150	1	05/16/23 13:50	05/19/23 14:48		
13C3HFPO-DA (S)	104	%	25-150	1	05/16/23 13:50	05/19/23 14:48		
13C4-PFHpA (S)	101	%	25-150	1	05/16/23 13:50	05/19/23 14:48	375-85-9	
13C3-PFHxS (S)	99	%	25-150	1	05/16/23 13:50	05/19/23 14:48	355-46-4	
13C26:2FTS (S)	103	%	25-150	1	05/16/23 13:50	05/19/23 14:48		
13C8-PFOA (S)	99	%	25-150	1	05/16/23 13:50	05/19/23 14:48	335-67-1	
13C8-PFOS (S)	92	%	25-150	1	05/16/23 13:50	05/19/23 14:48	1763-23-1	
13C9-PFNA (S)	96	%	25-150	1	05/16/23 13:50	05/19/23 14:48	375-95-1	
13C6-PFDA (S)	101	%	25-150	1	05/16/23 13:50	05/19/23 14:48	335-76-2	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-W-FB3-FB-230504 **Lab ID: 10652169036** Collected: 05/04/23 10:00 Received: 05/05/23 15:18 Matrix: Water

Parameters	Results	Units	Report Limit	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

13C28:2FTS (S)	162	%.	25-150	1	05/16/23 13:50	05/19/23 14:48		S3
d3-MeFOSAA (S)	64	%.	25-150	1	05/16/23 13:50	05/19/23 14:48	2355-31-9	
13C7-PFUdA (S)	83	%.	25-150	1	05/16/23 13:50	05/19/23 14:48	2058-94-8	
13C8-PFOSA (S)	74	%.	25-150	1	05/16/23 13:50	05/19/23 14:48	754-91-6	
d5-EtFOSAA (S)	64	%.	25-150	1	05/16/23 13:50	05/19/23 14:48	2991-50-6	
13C2-PFDoA (S)	76	%.	25-150	1	05/16/23 13:50	05/19/23 14:48		
d3-NMeFOSA (S)	40	%.	10-150	1	05/16/23 13:50	05/19/23 14:48	31506-32-8	
d7-NMeFOSE (S)	61	%.	10-150	1	05/16/23 13:50	05/19/23 14:48	24448-09-7	
13C2-PFTA (S)	82	%.	25-150	1	05/16/23 13:50	05/19/23 14:48		
d9-NEtFOSE (S)	58	%.	10-150	1	05/16/23 13:50	05/19/23 14:48	1691-99-2	
d5-NEtFOSA (S)	38	%.	10-150	1	05/16/23 13:50	05/19/23 14:48	4151-50-2	
13C5-PFHxA (S)	100	%.	25-150	1	05/16/23 13:50	05/19/23 14:48	307-24-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-W-FB4-FB-230505 **Lab ID: 10652169037** Collected: 05/05/23 11:40 Received: 05/05/23 15:18 Matrix: Water

Parameters	Results	Units	Report Limit	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

11CI-PF3OUdS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:02	763051-92-9	N2
4:2 FTS	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 15:02	757124-72-4	N2
6:2 FTS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:02	27619-97-2	N2
8:2 FTS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:02	39108-34-4	N2
9CI-PF3ONS	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 15:02	756426-58-1	N2
ADONA	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:02	919005-14-4	N2
HFPO-DA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:02	13252-13-6	N2
NEtFOSAA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:02	2991-50-6	N2
NEtFOSA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:02	4151-50-2	N2
NEtFOSE	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:02	1691-99-2	N2
NMeFOSAA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:02	2355-31-9	N2
NMeFOSA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:02	31506-32-8	N2
NMeFOSE	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:02	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/L	0.0017	1	05/16/23 13:50	05/19/23 15:02	375-73-5	N2
Perfluorodecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:02	335-76-2	N2
Perfluorohexanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:02	307-24-4	N2
PFBA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:02	375-22-4	N2
PFDS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:02	335-77-3	N2
PFDoS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:02	79780-39-5	N2
PFHpS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:02	375-92-8	N2
PFNS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:02	68259-12-1	N2
PFOSA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:02	754-91-6	N2
PFPeA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:02	2706-90-3	N2
PFPeS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:02	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:02	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:02	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 15:02	355-46-4	N2
Perfluorononanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:02	375-95-1	N2
Perfluorooctanesulfonic acid	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 15:02	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:02	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:02	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:02	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:02	2058-94-8	N2

Surrogates

13C4-PFBA (S)	93	%.	25-150	1	05/16/23 13:50	05/19/23 15:02	375-22-4	
13C5-PFPeA (S)	100	%.	25-150	1	05/16/23 13:50	05/19/23 15:02	2706-90-3	
13C3-PFBS (S)	103	%.	25-150	1	05/16/23 13:50	05/19/23 15:02	375-73-5	
13C24:2FTS (S)	100	%.	25-150	1	05/16/23 13:50	05/19/23 15:02		
13C3HFPO-DA (S)	105	%.	25-150	1	05/16/23 13:50	05/19/23 15:02		
13C4-PFHpA (S)	103	%.	25-150	1	05/16/23 13:50	05/19/23 15:02	375-85-9	
13C3-PFHxS (S)	103	%.	25-150	1	05/16/23 13:50	05/19/23 15:02	355-46-4	
13C26:2FTS (S)	101	%.	25-150	1	05/16/23 13:50	05/19/23 15:02		
13C8-PFOA (S)	101	%.	25-150	1	05/16/23 13:50	05/19/23 15:02	335-67-1	
13C8-PFOS (S)	92	%.	25-150	1	05/16/23 13:50	05/19/23 15:02	1763-23-1	
13C9-PFNA (S)	98	%.	25-150	1	05/16/23 13:50	05/19/23 15:02	375-95-1	
13C6-PFDA (S)	113	%.	25-150	1	05/16/23 13:50	05/19/23 15:02	335-76-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-W-FB4-FB-230505 **Lab ID: 10652169037** Collected: 05/05/23 11:40 Received: 05/05/23 15:18 Matrix: Water

Parameters	Results	Units	Report Limit	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

13C28:2FTS (S)	185	%.	25-150	1	05/16/23 13:50	05/19/23 15:02		S3
d3-MeFOSAA (S)	78	%.	25-150	1	05/16/23 13:50	05/19/23 15:02	2355-31-9	
13C7-PFUdA (S)	92	%.	25-150	1	05/16/23 13:50	05/19/23 15:02	2058-94-8	
13C8-PFOSA (S)	85	%.	25-150	1	05/16/23 13:50	05/19/23 15:02	754-91-6	
d5-EtFOSAA (S)	81	%.	25-150	1	05/16/23 13:50	05/19/23 15:02	2991-50-6	
13C2-PFDoA (S)	88	%.	25-150	1	05/16/23 13:50	05/19/23 15:02		
d3-NMeFOSA (S)	49	%.	10-150	1	05/16/23 13:50	05/19/23 15:02	31506-32-8	
d7-NMeFOSE (S)	78	%.	10-150	1	05/16/23 13:50	05/19/23 15:02	24448-09-7	
13C2-PFTA (S)	91	%.	25-150	1	05/16/23 13:50	05/19/23 15:02		
d9-NEtFOSE (S)	74	%.	10-150	1	05/16/23 13:50	05/19/23 15:02	1691-99-2	
d5-NEtFOSA (S)	52	%.	10-150	1	05/16/23 13:50	05/19/23 15:02	4151-50-2	
13C5-PFHxA (S)	101	%.	25-150	1	05/16/23 13:50	05/19/23 15:02	307-24-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-W-EB1-EB-230502 Lab ID: 10652169038 Collected: 05/02/23 16:15 Received: 05/05/23 15:18 Matrix: Water

Parameters	Results	Units	Report Limit	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

11CI-PF3OUdS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:10	763051-92-9	N2
4:2 FTS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:10	757124-72-4	N2
6:2 FTS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:10	27619-97-2	N2
8:2 FTS	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:10	39108-34-4	N2
9CI-PF3ONS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:10	756426-58-1	N2
ADONA	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:10	919005-14-4	N2
HFPO-DA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:10	13252-13-6	N2
NEtFOSAA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:10	2991-50-6	N2
NEtFOSA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:10	4151-50-2	N2
NEtFOSE	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:10	1691-99-2	N2
NMeFOSAA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:10	2355-31-9	N2
NMeFOSA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:10	31506-32-8	N2
NMeFOSE	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:10	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 15:10	375-73-5	N2
Perfluorodecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:10	335-76-2	N2
Perfluorohexanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:10	307-24-4	N2
PFBA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:10	375-22-4	N2
PFDS	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:10	335-77-3	N2
PFDoS	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:10	79780-39-5	N2
PFHpS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:10	375-92-8	N2
PFNS	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:10	68259-12-1	N2
PFOSA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:10	754-91-6	N2
PFPeA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:10	2706-90-3	N2
PFPeS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:10	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:10	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:10	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:10	355-46-4	N2
Perfluorononanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:10	375-95-1	N2
Perfluorooctanesulfonic acid	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:10	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:10	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:10	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:10	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:10	2058-94-8	N2

Surrogates

13C4-PFBA (S)	98	%	25-150	1	05/16/23 13:50	05/19/23 15:10	375-22-4	
13C5-PFPeA (S)	102	%	25-150	1	05/16/23 13:50	05/19/23 15:10	2706-90-3	
13C3-PFBS (S)	104	%	25-150	1	05/16/23 13:50	05/19/23 15:10	375-73-5	
13C24:2FTS (S)	108	%	25-150	1	05/16/23 13:50	05/19/23 15:10		
13C3HFPO-DA (S)	104	%	25-150	1	05/16/23 13:50	05/19/23 15:10		
13C4-PFHpA (S)	106	%	25-150	1	05/16/23 13:50	05/19/23 15:10	375-85-9	
13C3-PFHxS (S)	104	%	25-150	1	05/16/23 13:50	05/19/23 15:10	355-46-4	
13C26:2FTS (S)	145	%	25-150	1	05/16/23 13:50	05/19/23 15:10		
13C8-PFOA (S)	111	%	25-150	1	05/16/23 13:50	05/19/23 15:10	335-67-1	
13C8-PFOS (S)	98	%	25-150	1	05/16/23 13:50	05/19/23 15:10	1763-23-1	
13C9-PFNA (S)	106	%	25-150	1	05/16/23 13:50	05/19/23 15:10	375-95-1	
13C6-PFDA (S)	119	%	25-150	1	05/16/23 13:50	05/19/23 15:10	335-76-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-W-EB1-EB-230502	Lab ID: 10652169038	Collected: 05/02/23 16:15	Received: 05/05/23 15:18	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

WI ID NPW

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

Surrogates

13C28:2FTS (S)	215	%	25-150	1	05/16/23 13:50	05/19/23 15:10		S3
d3-MeFOSAA (S)	102	%	25-150	1	05/16/23 13:50	05/19/23 15:10	2355-31-9	
13C7-PFUdA (S)	123	%	25-150	1	05/16/23 13:50	05/19/23 15:10	2058-94-8	
13C8-PFOSA (S)	72	%	25-150	1	05/16/23 13:50	05/19/23 15:10	754-91-6	
d5-EtFOSAA (S)	121	%	25-150	1	05/16/23 13:50	05/19/23 15:10	2991-50-6	
13C2-PFDoA (S)	111	%	25-150	1	05/16/23 13:50	05/19/23 15:10		
d3-NMeFOSA (S)	1	%	10-150	1	05/16/23 13:50	05/19/23 15:10	31506-32-8	S0
d7-NMeFOSE (S)	32	%	10-150	1	05/16/23 13:50	05/19/23 15:10	24448-09-7	
13C2-PFTA (S)	98	%	25-150	1	05/16/23 13:50	05/19/23 15:10		
d9-NEtFOSE (S)	30	%	10-150	1	05/16/23 13:50	05/19/23 15:10	1691-99-2	
d5-NEtFOSA (S)	1	%	10-150	1	05/16/23 13:50	05/19/23 15:10	4151-50-2	S0
13C5-PFHxA (S)	104	%	25-150	1	05/16/23 13:50	05/19/23 15:10	307-24-4	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-W-EB2-EB-230503 **Lab ID: 10652169039** Collected: 05/03/23 17:40 Received: 05/05/23 15:18 Matrix: Water

Parameters	Results	Units	Report Limit	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

11CI-PF3OUdS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:17	763051-92-9	N2
4:2 FTS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:17	757124-72-4	N2
6:2 FTS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:17	27619-97-2	N2
8:2 FTS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:17	39108-34-4	N2
9CI-PF3ONS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:17	756426-58-1	N2
ADONA	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:17	919005-14-4	N2
HFPO-DA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:17	13252-13-6	N2
NEtFOSAA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:17	2991-50-6	N2
NEtFOSA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:17	4151-50-2	N2
NEtFOSE	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:17	1691-99-2	N2
NMeFOSAA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:17	2355-31-9	N2
NMeFOSA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:17	31506-32-8	N2
NMeFOSE	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:17	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 15:17	375-73-5	N2
Perfluorodecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:17	335-76-2	N2
Perfluorohexanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:17	307-24-4	N2
PFBA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:17	375-22-4	N2
PFDS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:17	335-77-3	N2
PFDoS	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:17	79780-39-5	N2
PFHpS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:17	375-92-8	N2
PFNS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:17	68259-12-1	N2
PFOSA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:17	754-91-6	N2
PFPeA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:17	2706-90-3	N2
PFPeS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:17	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:17	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:17	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 15:17	355-46-4	N2
Perfluorononanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:17	375-95-1	N2
Perfluorooctanesulfonic acid	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:17	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:17	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:17	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:17	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:17	2058-94-8	N2

Surrogates

13C4-PFBA (S)	98	%	25-150	1	05/16/23 13:50	05/19/23 15:17	375-22-4	
13C5-PFPeA (S)	99	%	25-150	1	05/16/23 13:50	05/19/23 15:17	2706-90-3	
13C3-PFBS (S)	99	%	25-150	1	05/16/23 13:50	05/19/23 15:17	375-73-5	
13C24:2FTS (S)	106	%	25-150	1	05/16/23 13:50	05/19/23 15:17		
13C3HFPO-DA (S)	101	%	25-150	1	05/16/23 13:50	05/19/23 15:17		
13C4-PFHpA (S)	104	%	25-150	1	05/16/23 13:50	05/19/23 15:17	375-85-9	
13C3-PFHxS (S)	98	%	25-150	1	05/16/23 13:50	05/19/23 15:17	355-46-4	
13C26:2FTS (S)	160	%	25-150	1	05/16/23 13:50	05/19/23 15:17		S3
13C8-PFOA (S)	107	%	25-150	1	05/16/23 13:50	05/19/23 15:17	335-67-1	
13C8-PFOS (S)	97	%	25-150	1	05/16/23 13:50	05/19/23 15:17	1763-23-1	
13C9-PFNA (S)	107	%	25-150	1	05/16/23 13:50	05/19/23 15:17	375-95-1	
13C6-PFDA (S)	121	%	25-150	1	05/16/23 13:50	05/19/23 15:17	335-76-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-W-EB2-EB-230503 **Lab ID: 10652169039** Collected: 05/03/23 17:40 Received: 05/05/23 15:18 Matrix: Water

Parameters	Results	Units	Report Limit	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

13C28:2FTS (S)	201	%.	25-150	1	05/16/23 13:50	05/19/23 15:17		S3
d3-MeFOSAA (S)	100	%.	25-150	1	05/16/23 13:50	05/19/23 15:17	2355-31-9	
13C7-PFUdA (S)	119	%.	25-150	1	05/16/23 13:50	05/19/23 15:17	2058-94-8	
13C8-PFOSA (S)	78	%.	25-150	1	05/16/23 13:50	05/19/23 15:17	754-91-6	
d5-EtFOSAA (S)	118	%.	25-150	1	05/16/23 13:50	05/19/23 15:17	2991-50-6	
13C2-PFDoA (S)	112	%.	25-150	1	05/16/23 13:50	05/19/23 15:17		
d3-NMeFOSA (S)	2	%.	10-150	1	05/16/23 13:50	05/19/23 15:17	31506-32-8	S0
d7-NMeFOSE (S)	35	%.	10-150	1	05/16/23 13:50	05/19/23 15:17	24448-09-7	
13C2-PFTA (S)	100	%.	25-150	1	05/16/23 13:50	05/19/23 15:17		
d9-NEtFOSE (S)	34	%.	10-150	1	05/16/23 13:50	05/19/23 15:17	1691-99-2	
d5-NEtFOSA (S)	1	%.	10-150	1	05/16/23 13:50	05/19/23 15:17	4151-50-2	S0
13C5-PFHxA (S)	101	%.	25-150	1	05/16/23 13:50	05/19/23 15:17	307-24-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-W-EB3-EB-230504 Lab ID: 10652169040 Collected: 05/04/23 13:30 Received: 05/05/23 15:18 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 15:24	763051-92-9	N2
4:2 FTS	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 15:24	757124-72-4	N2
6:2 FTS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:24	27619-97-2	N2
8:2 FTS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:24	39108-34-4	N2
9CI-PF3ONS	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 15:24	756426-58-1	N2
ADONA	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:24	919005-14-4	N2
HFPO-DA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:24	13252-13-6	N2
NEtFOSAA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:24	2991-50-6	N2
NEtFOSA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:24	4151-50-2	N2
NEtFOSE	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:24	1691-99-2	N2
NMeFOSAA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:24	2355-31-9	N2
NMeFOSA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:24	31506-32-8	N2
NMeFOSE	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:24	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/L	0.0017	1	05/16/23 13:50	05/19/23 15:24	375-73-5	N2
Perfluorodecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:24	335-76-2	N2
Perfluorohexanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:24	307-24-4	N2
PFBA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:24	375-22-4	N2
PFDS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:24	335-77-3	N2
PFDoS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:24	79780-39-5	N2
PFHpS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:24	375-92-8	N2
PFNS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:24	68259-12-1	N2
PFOSA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:24	754-91-6	N2
PFPeA	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:24	2706-90-3	N2
PFPeS	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 15:24	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:24	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:24	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 15:24	355-46-4	N2
Perfluorononanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:24	375-95-1	N2
Perfluorooctanesulfonic acid	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 15:24	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:24	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:24	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:24	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:24	2058-94-8	N2
Surrogates								
13C4-PFBA (S)	96	%	25-150	1	05/16/23 13:50	05/19/23 15:24	375-22-4	
13C5-PFPeA (S)	102	%	25-150	1	05/16/23 13:50	05/19/23 15:24	2706-90-3	
13C3-PFBS (S)	105	%	25-150	1	05/16/23 13:50	05/19/23 15:24	375-73-5	
13C24:2FTS (S)	104	%	25-150	1	05/16/23 13:50	05/19/23 15:24		
13C3HFPO-DA (S)	107	%	25-150	1	05/16/23 13:50	05/19/23 15:24		
13C4-PFHpA (S)	105	%	25-150	1	05/16/23 13:50	05/19/23 15:24	375-85-9	
13C3-PFHxS (S)	102	%	25-150	1	05/16/23 13:50	05/19/23 15:24	355-46-4	
13C26:2FTS (S)	114	%	25-150	1	05/16/23 13:50	05/19/23 15:24		
13C8-PFOA (S)	102	%	25-150	1	05/16/23 13:50	05/19/23 15:24	335-67-1	
13C8-PFOS (S)	94	%	25-150	1	05/16/23 13:50	05/19/23 15:24	1763-23-1	
13C9-PFNA (S)	98	%	25-150	1	05/16/23 13:50	05/19/23 15:24	375-95-1	
13C6-PFDA (S)	114	%	25-150	1	05/16/23 13:50	05/19/23 15:24	335-76-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-W-EB3-EB-230504 **Lab ID: 10652169040** Collected: 05/04/23 13:30 Received: 05/05/23 15:18 Matrix: Water

Parameters	Results	Units	Report Limit	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

13C28:2FTS (S)	200	%.	25-150	1	05/16/23 13:50	05/19/23 15:24		S3
d3-MeFOSAA (S)	84	%.	25-150	1	05/16/23 13:50	05/19/23 15:24	2355-31-9	
13C7-PFUdA (S)	99	%.	25-150	1	05/16/23 13:50	05/19/23 15:24	2058-94-8	
13C8-PFOSA (S)	84	%.	25-150	1	05/16/23 13:50	05/19/23 15:24	754-91-6	
d5-EtFOSAA (S)	86	%.	25-150	1	05/16/23 13:50	05/19/23 15:24	2991-50-6	
13C2-PFDoA (S)	95	%.	25-150	1	05/16/23 13:50	05/19/23 15:24		
d3-NMeFOSA (S)	3	%.	10-150	1	05/16/23 13:50	05/19/23 15:24	31506-32-8	S0
d7-NMeFOSE (S)	47	%.	10-150	1	05/16/23 13:50	05/19/23 15:24	24448-09-7	
13C2-PFTA (S)	94	%.	25-150	1	05/16/23 13:50	05/19/23 15:24		
d9-NEtFOSE (S)	39	%.	10-150	1	05/16/23 13:50	05/19/23 15:24	1691-99-2	
d5-NEtFOSA (S)	3	%.	10-150	1	05/16/23 13:50	05/19/23 15:24	4151-50-2	S0
13C5-PFHxA (S)	103	%.	25-150	1	05/16/23 13:50	05/19/23 15:24	307-24-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-W-EB4-EB-230505 Lab ID: 10652169041 Collected: 05/05/23 11:35 Received: 05/05/23 15:18 Matrix: Water

Parameters	Results	Units	Report Limit	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

11CI-PF3OUdS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:31	763051-92-9	N2
4:2 FTS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:31	757124-72-4	N2
6:2 FTS	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:31	27619-97-2	N2
8:2 FTS	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:31	39108-34-4	N2
9CI-PF3ONS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:31	756426-58-1	N2
ADONA	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:31	919005-14-4	N2
HFPO-DA	ND	ug/L	0.0021	1	05/16/23 13:50	05/19/23 15:31	13252-13-6	N2
NEtFOSAA	ND	ug/L	0.0021	1	05/16/23 13:50	05/19/23 15:31	2991-50-6	N2
NEtFOSA	ND	ug/L	0.0021	1	05/16/23 13:50	05/19/23 15:31	4151-50-2	N2
NEtFOSE	ND	ug/L	0.0021	1	05/16/23 13:50	05/19/23 15:31	1691-99-2	N2
NMeFOSAA	ND	ug/L	0.0021	1	05/16/23 13:50	05/19/23 15:31	2355-31-9	N2
NMeFOSA	ND	ug/L	0.0021	1	05/16/23 13:50	05/19/23 15:31	31506-32-8	N2
NMeFOSE	ND	ug/L	0.0021	1	05/16/23 13:50	05/19/23 15:31	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/L	0.0018	1	05/16/23 13:50	05/19/23 15:31	375-73-5	N2
Perfluorodecanoic acid	ND	ug/L	0.0021	1	05/16/23 13:50	05/19/23 15:31	335-76-2	N2
Perfluorohexanoic acid	ND	ug/L	0.0021	1	05/16/23 13:50	05/19/23 15:31	307-24-4	N2
PFBA	ND	ug/L	0.0021	1	05/16/23 13:50	05/19/23 15:31	375-22-4	N2
PFDS	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:31	335-77-3	N2
PFDoS	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:31	79780-39-5	N2
PFHpS	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:31	375-92-8	N2
PFNS	ND	ug/L	0.0020	1	05/16/23 13:50	05/19/23 15:31	68259-12-1	N2
PFOSA	ND	ug/L	0.0021	1	05/16/23 13:50	05/19/23 15:31	754-91-6	N2
PFPeA	ND	ug/L	0.0021	1	05/16/23 13:50	05/19/23 15:31	2706-90-3	N2
PFPeS	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:31	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/L	0.0021	1	05/16/23 13:50	05/19/23 15:31	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/L	0.0021	1	05/16/23 13:50	05/19/23 15:31	375-85-9	N2
Perfluorohexanesulfonic acid	ND	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:31	355-46-4	N2
Perfluorononanoic acid	ND	ug/L	0.0021	1	05/16/23 13:50	05/19/23 15:31	375-95-1	N2
Perfluorooctanesulfonic acid	0.0056	ug/L	0.0019	1	05/16/23 13:50	05/19/23 15:31	1763-23-1	N2
Perfluorooctanoic acid	ND	ug/L	0.0021	1	05/16/23 13:50	05/19/23 15:31	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/L	0.0021	1	05/16/23 13:50	05/19/23 15:31	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/L	0.0021	1	05/16/23 13:50	05/19/23 15:31	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/L	0.0021	1	05/16/23 13:50	05/19/23 15:31	2058-94-8	N2

Surrogates

13C4-PFBA (S)	97	%.	25-150	1	05/16/23 13:50	05/19/23 15:31	375-22-4	
13C5-PFPeA (S)	103	%.	25-150	1	05/16/23 13:50	05/19/23 15:31	2706-90-3	
13C3-PFBS (S)	106	%.	25-150	1	05/16/23 13:50	05/19/23 15:31	375-73-5	
13C24:2FTS (S)	103	%.	25-150	1	05/16/23 13:50	05/19/23 15:31		
13C3HFPO-DA (S)	104	%.	25-150	1	05/16/23 13:50	05/19/23 15:31		
13C4-PFHpA (S)	106	%.	25-150	1	05/16/23 13:50	05/19/23 15:31	375-85-9	
13C3-PFHxS (S)	106	%.	25-150	1	05/16/23 13:50	05/19/23 15:31	355-46-4	
13C26:2FTS (S)	124	%.	25-150	1	05/16/23 13:50	05/19/23 15:31		
13C8-PFOA (S)	110	%.	25-150	1	05/16/23 13:50	05/19/23 15:31	335-67-1	
13C8-PFOS (S)	102	%.	25-150	1	05/16/23 13:50	05/19/23 15:31	1763-23-1	
13C9-PFNA (S)	111	%.	25-150	1	05/16/23 13:50	05/19/23 15:31	375-95-1	
13C6-PFDA (S)	121	%.	25-150	1	05/16/23 13:50	05/19/23 15:31	335-76-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-W-EB4-EB-230505 **Lab ID: 10652169041** Collected: 05/05/23 11:35 Received: 05/05/23 15:18 Matrix: Water

Parameters	Results	Units	Report Limit	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

13C28:2FTS (S)	208	%.	25-150	1	05/16/23 13:50	05/19/23 15:31		S0
d3-MeFOSAA (S)	118	%.	25-150	1	05/16/23 13:50	05/19/23 15:31	2355-31-9	
13C7-PFUdA (S)	128	%.	25-150	1	05/16/23 13:50	05/19/23 15:31	2058-94-8	
13C8-PFOSA (S)	73	%.	25-150	1	05/16/23 13:50	05/19/23 15:31	754-91-6	
d5-EtFOSAA (S)	142	%.	25-150	1	05/16/23 13:50	05/19/23 15:31	2991-50-6	
13C2-PFDoA (S)	114	%.	25-150	1	05/16/23 13:50	05/19/23 15:31		
d3-NMeFOSA (S)	25	%.	10-150	1	05/16/23 13:50	05/19/23 15:31	31506-32-8	
d7-NMeFOSE (S)	71	%.	10-150	1	05/16/23 13:50	05/19/23 15:31	24448-09-7	
13C2-PFTA (S)	113	%.	25-150	1	05/16/23 13:50	05/19/23 15:31		
d9-NEtFOSE (S)	67	%.	10-150	1	05/16/23 13:50	05/19/23 15:31	1691-99-2	
d5-NEtFOSA (S)	22	%.	10-150	1	05/16/23 13:50	05/19/23 15:31	4151-50-2	
13C5-PFHxA (S)	104	%.	25-150	1	05/16/23 13:50	05/19/23 15:31	307-24-4	

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-MW3-59-60 FT-0-230503 **Lab ID:** 10652169042 Collected: 05/03/23 11:05 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	3.0	%	0.10	1		05/25/23 15:42		N2
WI ID SL								
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.094	1	05/18/23 15:05	06/06/23 16:44	763051-92-9	N2
4:2 FTS	ND	ug/kg	0.094	1	05/18/23 15:05	06/06/23 16:44	757124-72-4	N2
6:2 FTS	ND	ug/kg	0.095	1	05/18/23 15:05	06/06/23 16:44	27619-97-2	N2
8:2 FTS	ND	ug/kg	0.097	1	05/18/23 15:05	06/06/23 16:44	39108-34-4	N2
9CI-PF3ONS	ND	ug/kg	0.093	1	05/18/23 15:05	06/06/23 16:44	756426-58-1	N2
ADONA	ND	ug/kg	0.095	1	05/18/23 15:05	06/06/23 16:44	919005-14-4	N2
HFPO-DA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:44	13252-13-6	N2
NEtFOSAA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:44	2991-50-6	N2
NEtFOSA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:44	4151-50-2	N2
NEtFOSE	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:44	1691-99-2	N2
NMeFOSAA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:44	2355-31-9	N2
NMeFOSA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:44	31506-32-8	N2
NMeFOSE	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:44	24448-09-7	N2
Perfluorobutanesulfonic acid	ND	ug/kg	0.089	1	05/18/23 15:05	06/06/23 16:44	375-73-5	N2
Perfluorodecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:44	335-76-2	N2
Perfluorohexanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:44	307-24-4	N2
PFBA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:44	375-22-4	N2
PFDS	ND	ug/kg	0.097	1	05/18/23 15:05	06/06/23 16:44	335-77-3	N2
PFDoS	ND	ug/kg	0.097	1	05/18/23 15:05	06/06/23 16:44	79780-39-5	N2
PFHpS	0.19	ug/kg	0.095	1	05/18/23 15:05	06/06/23 16:44	375-92-8	N2
PFNS	ND	ug/kg	0.096	1	05/18/23 15:05	06/06/23 16:44	68259-12-1	N2
PFOSA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:44	754-91-6	N2
PFPeA	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:44	2706-90-3	N2
PFPeS	0.10	ug/kg	0.094	1	05/18/23 15:05	06/06/23 16:44	2706-91-4	N2
Perfluorododecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:44	307-55-1	N2
Perfluoroheptanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:44	375-85-9	N2
Perfluorohexanesulfonic acid	12.8	ug/kg	0.91	10	05/18/23 15:05	05/25/23 16:24	355-46-4	N2
Perfluorononanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:44	375-95-1	N2
Perfluorooctanesulfonic acid	4.3	ug/kg	0.093	1	05/18/23 15:05	06/06/23 16:44	1763-23-1	N2
Perfluorooctanoic acid	0.53	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:44	335-67-1	N2
Perfluorotetradecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:44	376-06-7	N2
Perfluorotridecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:44	72629-94-8	N2
Perfluoroundecanoic acid	ND	ug/kg	0.10	1	05/18/23 15:05	06/06/23 16:44	2058-94-8	N2
Surrogates								
13C2-PFDoA (S)	110	%	25-150	1	05/18/23 15:05	06/06/23 16:44		
13C2-PFTA (S)	101	%	25-150	1	05/18/23 15:05	06/06/23 16:44		
13C24:2FTS (S)	96	%	25-150	1	05/18/23 15:05	06/06/23 16:44		
13C26:2FTS (S)	128	%	25-150	1	05/18/23 15:05	06/06/23 16:44		
13C28:2FTS (S)	113	%	25-150	1	05/18/23 15:05	06/06/23 16:44		
13C3-PFBS (S)	108	%	25-150	1	05/18/23 15:05	06/06/23 16:44	375-73-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

Sample: MEWI-S-MW3-59-60 FT-0-230503 Lab ID: 10652169042 Collected: 05/03/23 11:05 Received: 05/05/23 15:18 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates								
13C3-PFHxS (S)	101	%	25-150	1	05/18/23 15:05	06/06/23 16:44	355-46-4	
13C3HFPO-DA (S)	113	%	25-150	1	05/18/23 15:05	06/06/23 16:44		
13C4-PFBA (S)	103	%	25-150	1	05/18/23 15:05	06/06/23 16:44	375-22-4	
13C4-PFHpA (S)	104	%	25-150	1	05/18/23 15:05	06/06/23 16:44	375-85-9	
13C5-PFHxA (S)	109	%	25-150	1	05/18/23 15:05	06/06/23 16:44	307-24-4	
13C5-PFPeA (S)	109	%	25-150	1	05/18/23 15:05	06/06/23 16:44	2706-90-3	
13C6-PFDA (S)	102	%	25-150	1	05/18/23 15:05	06/06/23 16:44	335-76-2	
13C7-PFUdA (S)	103	%	25-150	1	05/18/23 15:05	06/06/23 16:44	2058-94-8	
13C8-PFOA (S)	101	%	25-150	1	05/18/23 15:05	06/06/23 16:44	335-67-1	
13C8-PFOS (S)	112	%	25-150	1	05/18/23 15:05	06/06/23 16:44	1763-23-1	
13C8-PFOSA (S)	106	%	25-150	1	05/18/23 15:05	06/06/23 16:44	754-91-6	
13C9-PFNA (S)	103	%	25-150	1	05/18/23 15:05	06/06/23 16:44	375-95-1	
d3-MeFOSAA (S)	106	%	25-150	1	05/18/23 15:05	06/06/23 16:44	2355-31-9	
d3-NMeFOSA (S)	99	%	10-150	1	05/18/23 15:05	06/06/23 16:44	31506-32-8	
d5-EtFOSAA (S)	118	%	25-150	1	05/18/23 15:05	06/06/23 16:44	2991-50-6	
d5-NEtFOSA (S)	101	%	10-150	1	05/18/23 15:05	06/06/23 16:44	4151-50-2	
d7-NMeFOSE (S)	96	%	10-150	1	05/18/23 15:05	06/06/23 16:44	24448-09-7	
d9-NEtFOSE (S)	96	%	10-150	1	05/18/23 15:05	06/06/23 16:44	1691-99-2	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

QC Batch:	883406	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight / %M by ASTM D2974
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10652169001, 10652169002, 10652169003, 10652169004, 10652169005, 10652169006, 10652169007, 10652169008, 10652169009, 10652169010, 10652169011, 10652169012, 10652169013, 10652169014, 10652169015, 10652169016, 10652169017, 10652169018, 10652169019, 10652169020

SAMPLE DUPLICATE: 4654259

Parameter	Units	10652169001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.7	7.5	3	30	N2

SAMPLE DUPLICATE: 4654260

Parameter	Units	10652169020 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.8	8.3	6	30	N2

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

QC Batch:	883476	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight / %M by ASTM D2974
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10652169021, 10652169022, 10652169023, 10652169024, 10652169025, 10652169026, 10652169027, 10652169028, 10652169029, 10652169030, 10652169031, 10652169032, 10652169033, 10652169042

SAMPLE DUPLICATE: 4654495

Parameter	Units	10652169021 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	3.9	4.0	2	30	N2

SAMPLE DUPLICATE: 4654496

Parameter	Units	10652169042 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	3.0	2.8	9	30	N2

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QUALITY CONTROL DATA

Project: E23-0254 3M Menomonie
Pace Project No.: 10652169

METHOD BLANK: 4638791

Matrix: Water

Associated Lab Samples: 10652169034, 10652169035, 10652169036, 10652169037, 10652169038, 10652169039, 10652169040, 10652169041

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-PFHpA (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 3M Menomonie
Pace Project No.: 10652169

LABORATORY CONTROL SAMPLE & LCSD:		4638792	4644210		LCS	LCSD	% Rec		Max	
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	% Rec	% Rec	Limits	RPD	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 3M Menomonie

Pace Project No.: 10652169

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-PFOSA (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 3M Menomonie

Pace Project No.: 10652169

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	
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	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 3M Menomonie

Pace Project No.: 10652169

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 3M Menomonie
Pace Project No.: 10652169

QC Batch: 881401 Analysis Method: ENV-SOP-MIN4-0178
QC Batch Method: ENV-SOP-MIN4-0178 Analysis Description: WI ID SL
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10652169001, 10652169002, 10652169003, 10652169004, 10652169005, 10652169006, 10652169007, 10652169008, 10652169009, 10652169010, 10652169011, 10652169012, 10652169013, 10652169014, 10652169015, 10652169016, 10652169017, 10652169018, 10652169019

METHOD BLANK: 4644807 Matrix: Solid

Associated Lab Samples: 10652169001, 10652169002, 10652169003, 10652169004, 10652169005, 10652169006, 10652169007, 10652169008, 10652169009, 10652169010, 10652169011, 10652169012, 10652169013, 10652169014, 10652169015, 10652169016, 10652169017, 10652169018, 10652169019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ug/kg	ND	0.094	05/22/23 17:57	N2
4:2 FTS	ug/kg	ND	0.094	05/22/23 17:57	N2
6:2 FTS	ug/kg	ND	0.095	05/22/23 17:57	N2
8:2 FTS	ug/kg	ND	0.097	05/22/23 17:57	N2
9Cl-PF3ONS	ug/kg	ND	0.093	05/22/23 17:57	N2
ADONA	ug/kg	ND	0.095	05/22/23 17:57	N2
HFPO-DA	ug/kg	ND	0.10	05/22/23 17:57	N2
NEtFOSA	ug/kg	ND	0.10	05/22/23 17:57	N2
NEtFOSAA	ug/kg	ND	0.10	05/22/23 17:57	N2
NEtFOSE	ug/kg	ND	0.10	05/22/23 17:57	N2
NMeFOSA	ug/kg	ND	0.10	05/22/23 17:57	N2
NMeFOSAA	ug/kg	ND	0.10	05/22/23 17:57	N2
NMeFOSE	ug/kg	ND	0.10	05/22/23 17:57	N2
Perfluorobutanesulfonic acid	ug/kg	ND	0.089	05/22/23 17:57	N2
Perfluorodecanoic acid	ug/kg	ND	0.10	05/22/23 17:57	N2
Perfluorododecanoic acid	ug/kg	ND	0.10	05/22/23 17:57	N2
Perfluoroheptanoic acid	ug/kg	ND	0.10	05/22/23 17:57	N2
Perfluorohexanesulfonic acid	ug/kg	ND	0.091	05/22/23 17:57	N2
Perfluorohexanoic acid	ug/kg	ND	0.10	05/22/23 17:57	N2
Perfluorononanoic acid	ug/kg	ND	0.10	05/22/23 17:57	N2
Perfluorooctanesulfonic acid	ug/kg	ND	0.093	05/22/23 17:57	N2
Perfluorooctanoic acid	ug/kg	ND	0.10	05/22/23 17:57	N2
Perfluorotetradecanoic acid	ug/kg	ND	0.10	05/22/23 17:57	N2
Perfluorotridecanoic acid	ug/kg	ND	0.10	05/22/23 17:57	N2
Perfluoroundecanoic acid	ug/kg	ND	0.10	05/22/23 17:57	N2
PFBA	ug/kg	ND	0.10	05/22/23 17:57	N2
PFDoS	ug/kg	ND	0.097	05/22/23 17:57	N2
PFDS	ug/kg	ND	0.097	05/22/23 17:57	N2
PFHpS	ug/kg	ND	0.095	05/22/23 17:57	N2
PFNS	ug/kg	ND	0.096	05/22/23 17:57	N2
PFOSA	ug/kg	ND	0.10	05/22/23 17:57	N2
PFPeA	ug/kg	ND	0.10	05/22/23 17:57	N2
PFPeS	ug/kg	ND	0.094	05/22/23 17:57	N2
13C2-PFDoA (S)	%	105	25-150	05/22/23 17:57	
13C2-PFTA (S)	%	105	25-150	05/22/23 17:57	
13C24:2FTS (S)	%	66	25-150	05/22/23 17:57	
13C26:2FTS (S)	%	78	25-150	05/22/23 17:57	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

METHOD BLANK: 4644807

Matrix: Solid

Associated Lab Samples: 10652169001, 10652169002, 10652169003, 10652169004, 10652169005, 10652169006, 10652169007, 10652169008, 10652169009, 10652169010, 10652169011, 10652169012, 10652169013, 10652169014, 10652169015, 10652169016, 10652169017, 10652169018, 10652169019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C28:2FTS (S)	%	94	25-150	05/22/23 17:57	
13C3-PFBS (S)	%	83	25-150	05/22/23 17:57	
13C3-PFHxS (S)	%	86	25-150	05/22/23 17:57	
13C3HFPO-DA (S)	%	87	25-150	05/22/23 17:57	
13C4-PFBA (S)	%	85	25-150	05/22/23 17:57	
13C4-PFHpA (S)	%	92	25-150	05/22/23 17:57	
13C5-PFHxA (S)	%	91	25-150	05/22/23 17:57	
13C5-PFPeA (S)	%	88	25-150	05/22/23 17:57	
13C6-PFDA (S)	%	108	25-150	05/22/23 17:57	
13C7-PFUdA (S)	%	118	25-150	05/22/23 17:57	
13C8-PFOA (S)	%	106	25-150	05/22/23 17:57	
13C8-PFOS (S)	%	97	25-150	05/22/23 17:57	
13C8-PFOSA (S)	%	87	25-150	05/22/23 17:57	
13C9-PFNA (S)	%	125	25-150	05/22/23 17:57	
d3-MeFOSAA (S)	%	99	25-150	05/22/23 17:57	
d3-NMeFOSA (S)	%	87	20-150	05/22/23 17:57	
d5-EtFOSAA (S)	%	96	25-150	05/22/23 17:57	
d5-NEtFOSA (S)	%	81	20-150	05/22/23 17:57	
d7-NMeFOSE (S)	%	67	20-150	05/22/23 17:57	
d9-NEtFOSE (S)	%	68	20-150	05/22/23 17:57	

LABORATORY CONTROL SAMPLE: 4644808

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ug/kg	0.18	0.16	87	50-150	N2
4:2 FTS	ug/kg	0.18	0.17	96	50-150	N2
6:2 FTS	ug/kg	0.18	0.16	88	50-150	N2
8:2 FTS	ug/kg	0.19	0.17	94	50-150	N2
9CI-PF3ONS	ug/kg	0.18	0.16	87	50-150	N2
ADONA	ug/kg	0.18	0.15	81	50-150	N2
HFPO-DA	ug/kg	0.19	0.17	88	50-150	N2
NEtFOSA	ug/kg	0.19	0.17	90	50-150	N2
NEtFOSAA	ug/kg	0.19	0.21	106	50-150	N2
NEtFOSE	ug/kg	0.19	0.18	90	50-150	N2
NMeFOSA	ug/kg	0.19	0.20	102	50-150	N2
NMeFOSAA	ug/kg	0.19	0.20	102	50-150	N2
NMeFOSE	ug/kg	0.19	0.18	93	50-150	N2
Perfluorobutanesulfonic acid	ug/kg	0.17	0.15	88	50-150	N2
Perfluorodecanoic acid	ug/kg	0.19	0.19	96	50-150	N2
Perfluorododecanoic acid	ug/kg	0.19	0.17	89	50-150	N2
Perfluoroheptanoic acid	ug/kg	0.19	0.17	89	50-150	N2
Perfluorohexanesulfonic acid	ug/kg	0.18	0.16	90	50-150	N2

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QUALITY CONTROL DATA

Project: E23-0254 3M Menomonie
Pace Project No.: 10652169

LABORATORY CONTROL SAMPLE: 4644808

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorohexanoic acid	ug/kg	0.19	0.19	95	50-150	N2
Perfluorononanoic acid	ug/kg	0.19	0.17	88	50-150	N2
Perfluorooctanesulfonic acid	ug/kg	0.18	0.15	85	50-150	N2
Perfluorooctanoic acid	ug/kg	0.19	0.17	87	50-150	N2
Perfluorotetradecanoic acid	ug/kg	0.19	0.17	89	50-150	N2
Perfluorotridecanoic acid	ug/kg	0.19	0.17	88	50-150	N2
Perfluoroundecanoic acid	ug/kg	0.19	0.16	81	50-150	N2
PFBA	ug/kg	0.19	0.17	87	50-150	N2
PFDoS	ug/kg	0.19	0.15	79	50-150	N2
PFDS	ug/kg	0.19	0.12	64	50-150	N2
PFHpS	ug/kg	0.19	0.17	94	50-150	N2
PFNS	ug/kg	0.19	0.16	88	50-150	N2
PFOSA	ug/kg	0.19	0.16	84	50-150	N2
PFPeA	ug/kg	0.19	0.20	101	50-150	N2
PFPeS	ug/kg	0.18	0.16	87	50-150	N2
13C2-PFDoA (S)	%			127	25-150	
13C2-PFTA (S)	%			124	25-150	
13C24:2FTS (S)	%			72	25-150	
13C26:2FTS (S)	%			79	25-150	
13C28:2FTS (S)	%			110	25-150	
13C3-PFBS (S)	%			95	25-150	
13C3-PFHxS (S)	%			97	25-150	
13C3HFPO-DA (S)	%			96	25-150	
13C4-PFBA (S)	%			99	25-150	
13C4-PFHpA (S)	%			102	25-150	
13C5-PFHxA (S)	%			101	25-150	
13C5-PFPeA (S)	%			101	25-150	
13C6-PFDA (S)	%			114	25-150	
13C7-PFUdA (S)	%			138	25-150	
13C8-PFOA (S)	%			109	25-150	
13C8-PFOS (S)	%			112	25-150	
13C8-PFOSA (S)	%			101	25-150	
13C9-PFNA (S)	%			126	25-150	
d3-MeFOSAA (S)	%			104	25-150	
d3-NMeFOSA (S)	%			95	20-150	
d5-EtFOSAA (S)	%			111	25-150	
d5-NEtFOSA (S)	%			93	20-150	
d7-NMeFOSE (S)	%			77	20-150	
d9-NEtFOSE (S)	%			79	20-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4645248 4645249

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10652169019 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
11Cl-PF3OUdS	ug/kg	ND	0.2	0.19	0.14	0.16	73	87	50-150	15	30	N2

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QUALITY CONTROL DATA

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4645248 4645249											
Parameter	Units	10652169019	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
4:2 FTS	ug/kg	ND	0.2	0.19	0.16	0.17	85	92	50-150	5	30 N2
6:2 FTS	ug/kg	ND	0.2	0.19	0.14	0.18	71	94	50-150	25	30 N2
8:2 FTS	ug/kg	ND	0.2	0.2	0.13	0.15	67	76	50-150	10	30 N2
9Cl-PF3ONS	ug/kg	ND	0.2	0.19	0.14	0.16	75	85	50-150	9	30 N2
ADONA	ug/kg	ND	0.2	0.19	0.16	0.17	80	90	50-150	9	30 N2
HFPO-DA	ug/kg	ND	0.21	0.2	0.16	0.16	79	82	50-150	1	30 N2
NEtFOSA	ug/kg	ND	0.21	0.2	0.16	0.17	78	86	50-150	7	30 N2
NEtFOSAA	ug/kg	ND	0.21	0.2	0.13	0.15	61	75	50-150	18	30 N2
NEtFOSE	ug/kg	ND	0.21	0.2	0.15	0.19	73	93	50-150	22	30 N2
NMeFOSA	ug/kg	ND	0.21	0.2	0.14	0.16	68	79	50-150	11	30 N2
NMeFOSAA	ug/kg	ND	0.21	0.2	0.14	0.17	66	86	50-150	23	30 N2
NMeFOSE	ug/kg	ND	0.21	0.2	0.15	0.16	74	81	50-150	7	30 N2
Perfluorobutanesulfonic acid	ug/kg	ND	0.18	0.18	0.15	0.16	82	89	50-150	5	30 N2
Perfluorodecanoic acid	ug/kg	ND	0.21	0.2	0.16	0.17	77	83	50-150	4	30 N2
Perfluorododecanoic acid	ug/kg	ND	0.21	0.2	0.15	0.16	71	77	50-150	5	30 N2
Perfluoroheptanoic acid	ug/kg	ND	0.21	0.2	0.16	0.17	77	82	50-150	4	30 N2
Perfluorohexanesulfonic acid	ug/kg	ND	0.19	0.19	0.20	0.20	71	73	50-150	0	30 N2
Perfluorohexanoic acid	ug/kg	ND	0.21	0.2	0.15	0.16	69	77	50-150	8	30 N2
Perfluorononanoic acid	ug/kg	ND	0.21	0.2	0.17	0.17	81	86	50-150	4	30 N2
Perfluorooctanesulfonic acid	ug/kg	ND	0.19	0.19	0.23	0.19	107	87	50-150	19	30 N2
Perfluorooctanoic acid	ug/kg	ND	0.21	0.2	0.18	0.19	75	80	50-150	4	30 N2
Perfluorotetradecanoic acid	ug/kg	ND	0.21	0.2	0.15	0.16	74	81	50-150	6	30 N2
Perfluorotridecanoic acid	ug/kg	ND	0.21	0.2	0.15	0.16	74	82	50-150	7	30 N2
Perfluoroundecanoic acid	ug/kg	ND	0.21	0.2	0.16	0.17	78	85	50-150	6	30 N2
PFBA	ug/kg	ND	0.21	0.2	0.17	0.17	78	82	50-150	3	30 N2
PFDoS	ug/kg	ND	0.2	0.2	0.15	0.15	76	77	50-150	1	30 N2
PFDS	ug/kg	ND	0.2	0.2	0.15	0.16	74	83	50-150	9	30 N2
PFHpS	ug/kg	ND	0.2	0.19	0.13	0.14	67	72	50-150	5	30 N2
PFNS	ug/kg	ND	0.2	0.2	0.18	0.17	93	87	50-150	9	30 N2
PFOSA	ug/kg	ND	0.21	0.2	0.16	0.17	76	87	50-150	11	30 N2
PFPeA	ug/kg	ND	0.21	0.2	0.15	0.16	73	79	50-150	5	30 N2
PFPeS	ug/kg	ND	0.2	0.19	0.15	0.16	78	85	50-150	6	30 N2
13C2-PFDoA (S)	%						87	85	25-150		
13C2-PFTA (S)	%						79	80	25-150		
13C24:2FTS (S)	%						74	73	25-150		
13C26:2FTS (S)	%						95	84	25-150		
13C28:2FTS (S)	%						90	83	25-150		
13C3-PFBS (S)	%						88	85	25-150		
13C3-PFHxS (S)	%						89	87	25-150		
13C3HFPO-DA (S)	%						94	92	25-150		
13C4-PFBA (S)	%						84	82	25-150		
13C4-PFHpA (S)	%						83	81	25-150		
13C5-PFHxA (S)	%						90	88	25-150		

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QUALITY CONTROL DATA

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4645248 4645249												
Parameter	Units	10652169019		4645249		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
13C5-PFPeA (S)	%.							89	86	25-150		
13C6-PFDA (S)	%.							88	84	25-150		
13C7-PFUdA (S)	%.							82	81	25-150		
13C8-PFOA (S)	%.							83	78	25-150		
13C8-PFOS (S)	%.							92	91	25-150		
13C8-PFOSA (S)	%.							85	83	25-150		
13C9-PFNA (S)	%.							89	85	25-150		
d3-MeFOSAA (S)	%.							82	77	25-150		
d3-NMeFOSA (S)	%.							79	81	10-150		
d5-EtFOSAA (S)	%.							95	87	25-150		
d5-NEtFOSA (S)	%.							81	81	10-150		
d7-NMeFOSE (S)	%.							79	82	10-150		
d9-NEtFOSE (S)	%.							77	74	10-150		

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QUALITY CONTROL DATA

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

METHOD BLANK: 4647589

Matrix: Solid

Associated Lab Samples: 10652169020, 10652169021, 10652169022, 10652169023, 10652169024, 10652169025, 10652169026, 10652169027, 10652169028, 10652169029, 10652169030, 10652169031, 10652169032, 10652169033, 10652169042

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C28:2FTS (S)	%.	96	25-150	05/25/23 14:07	
13C3-PFBS (S)	%.	94	25-150	05/25/23 14:07	
13C3-PFHxS (S)	%.	96	25-150	05/25/23 14:07	
13C3HFPO-DA (S)	%.	101	25-150	05/25/23 14:07	
13C4-PFBA (S)	%.	97	25-150	05/25/23 14:07	
13C4-PFHpA (S)	%.	105	25-150	05/25/23 14:07	
13C5-PFHxA (S)	%.	105	25-150	05/25/23 14:07	
13C5-PFPeA (S)	%.	103	25-150	05/25/23 14:07	
13C6-PFDA (S)	%.	122	25-150	05/25/23 14:07	
13C7-PFUdA (S)	%.	118	25-150	05/25/23 14:07	
13C8-PFOA (S)	%.	110	25-150	05/25/23 14:07	
13C8-PFOS (S)	%.	87	25-150	05/25/23 14:07	
13C8-PFOSA (S)	%.	98	25-150	05/25/23 14:07	
13C9-PFNA (S)	%.	101	25-150	05/25/23 14:07	
d3-MeFOSAA (S)	%.	113	25-150	05/25/23 14:07	
d3-NMeFOSA (S)	%.	93	20-150	05/25/23 14:07	
d5-EtFOSAA (S)	%.	114	25-150	05/25/23 14:07	
d5-NEtFOSA (S)	%.	94	20-150	05/25/23 14:07	
d7-NMeFOSE (S)	%.	78	20-150	05/25/23 14:07	
d9-NEtFOSE (S)	%.	83	20-150	05/25/23 14:07	

LABORATORY CONTROL SAMPLE: 4647590

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ug/kg	0.19	0.16	88	50-150	N2
4:2 FTS	ug/kg	0.18	0.16	84	50-150	N2
6:2 FTS	ug/kg	0.19	0.16	87	50-150	N2
8:2 FTS	ug/kg	0.19	0.15	79	50-150	N2
9CI-PF3ONS	ug/kg	0.18	0.17	92	50-150	N2
ADONA	ug/kg	0.19	0.18	97	50-150	N2
HFPO-DA	ug/kg	0.2	0.17	88	50-150	N2
NEtFOSA	ug/kg	0.2	0.17	88	50-150	N2
NEtFOSAA	ug/kg	0.2	0.17	86	50-150	N2
NEtFOSE	ug/kg	0.2	0.16	81	50-150	N2
NMeFOSA	ug/kg	0.2	0.16	82	50-150	N2
NMeFOSAA	ug/kg	0.2	0.16	82	50-150	N2
NMeFOSE	ug/kg	0.2	0.17	88	50-150	N2
Perfluorobutanesulfonic acid	ug/kg	0.17	0.16	89	50-150	N2
Perfluorodecanoic acid	ug/kg	0.2	0.17	86	50-150	N2
Perfluorododecanoic acid	ug/kg	0.2	0.17	85	50-150	N2
Perfluoroheptanoic acid	ug/kg	0.2	0.18	91	50-150	N2
Perfluorohexanesulfonic acid	ug/kg	0.18	0.15	86	50-150	N2

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: E23-0254 3M Menomonie
Pace Project No.: 10652169

LABORATORY CONTROL SAMPLE: 4647590

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorohexanoic acid	ug/kg	0.2	0.16	82	50-150	N2
Perfluorononanoic acid	ug/kg	0.2	0.18	90	50-150	N2
Perfluorooctanesulfonic acid	ug/kg	0.18	0.18	97	50-150	N2
Perfluorooctanoic acid	ug/kg	0.2	0.18	90	50-150	N2
Perfluorotetradecanoic acid	ug/kg	0.2	0.17	85	50-150	N2
Perfluorotridecanoic acid	ug/kg	0.2	0.17	85	50-150	N2
Perfluoroundecanoic acid	ug/kg	0.2	0.18	90	50-150	N2
PFBA	ug/kg	0.2	0.18	91	50-150	N2
PFDoS	ug/kg	0.19	0.17	89	50-150	N2
PFDS	ug/kg	0.19	0.15	78	50-150	N2
PFHpS	ug/kg	0.19	0.13	70	50-150	N2
PFNS	ug/kg	0.19	0.15	78	50-150	N2
PFOSA	ug/kg	0.2	0.17	84	50-150	N2
PFPeA	ug/kg	0.2	0.16	82	50-150	N2
PFPeS	ug/kg	0.19	0.16	88	50-150	N2
13C2-PFDoA (S)	%			95	25-150	
13C2-PFTA (S)	%			89	25-150	
13C24:2FTS (S)	%			110	25-150	
13C26:2FTS (S)	%			111	25-150	
13C28:2FTS (S)	%			101	25-150	
13C3-PFBS (S)	%			101	25-150	
13C3-PFHxS (S)	%			99	25-150	
13C3HFPO-DA (S)	%			101	25-150	
13C4-PFBA (S)	%			98	25-150	
13C4-PFHpA (S)	%			93	25-150	
13C5-PFHxA (S)	%			101	25-150	
13C5-PFPeA (S)	%			101	25-150	
13C6-PFDA (S)	%			89	25-150	
13C7-PFUdA (S)	%			88	25-150	
13C8-PFOA (S)	%			90	25-150	
13C8-PFOS (S)	%			97	25-150	
13C8-PFOSA (S)	%			93	25-150	
13C9-PFNA (S)	%			92	25-150	
d3-MeFOSAA (S)	%			92	25-150	
d3-NMeFOSA (S)	%			90	20-150	
d5-EtFOSAA (S)	%			109	25-150	
d5-NEtFOSA (S)	%			91	20-150	
d7-NMeFOSE (S)	%			86	20-150	
d9-NEtFOSE (S)	%			81	20-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4647698 4647699

Parameter	Units	10652169021 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
11Cl-PF3OUdS	ug/kg	ND	0.2	0.2	0.13	0.14	68	73	50-150	8	30	N2

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QUALITY CONTROL DATA

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4647698 4647699													
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		10652169021 Result	Spike Conc.	Spike Conc.	MS Result								
4:2 FTS	ug/kg	ND	0.19	0.2	0.16	0.17	82	85	50-150	6	30	N2	
6:2 FTS	ug/kg	ND	0.2	0.2	0.12	0.15	63	76	50-150	20	30	N2	
8:2 FTS	ug/kg	ND	0.2	0.2	0.13	0.15	68	75	50-150	12	30	N2	
9Cl-PF3ONS	ug/kg	ND	0.19	0.2	0.15	0.16	80	82	50-150	5	30	N2	
ADONA	ug/kg	ND	0.2	0.2	0.16	0.16	82	83	50-150	3	30	N2	
HFPO-DA	ug/kg	ND	0.21	0.21	0.15	0.17	74	81	50-150	10	30	N2	
NEtFOSA	ug/kg	ND	0.21	0.21	0.16	0.16	79	78	50-150	0	30	N2	
NEtFOSAA	ug/kg	ND	0.21	0.21	0.13	0.16	65	76	50-150	17	30	N2	
NEtFOSE	ug/kg	ND	0.21	0.21	0.15	0.17	73	83	50-150	14	30	N2	
NMeFOSA	ug/kg	ND	0.21	0.21	0.15	0.14	71	68	50-150	3	30	N2	
NMeFOSAA	ug/kg	ND	0.21	0.21	0.14	0.15	67	73	50-150	11	30	N2	
NMeFOSE	ug/kg	ND	0.21	0.21	0.15	0.16	76	76	50-150	3	30	N2	
Perfluorobutanesulfonic acid	ug/kg	ND	0.18	0.19	0.15	0.16	81	85	50-150	6	30	N2	
Perfluorodecanoic acid	ug/kg	ND	0.21	0.21	0.16	0.17	76	84	50-150	11	30	N2	
Perfluorododecanoic acid	ug/kg	ND	0.21	0.21	0.14	0.16	69	77	50-150	13	30	N2	
Perfluoroheptanoic acid	ug/kg	ND	0.21	0.21	0.18	0.20	75	83	50-150	10	30	N2	
Perfluorohexanesulfonic acid	ug/kg	0.61	0.19	0.19	0.74	0.74	75	73	50-150	0	30	N2	
Perfluorohexanoic acid	ug/kg	ND	0.21	0.21	0.15	0.16	70	74	50-150	6	30	N2	
Perfluorononanoic acid	ug/kg	ND	0.21	0.21	0.16	0.17	77	80	50-150	6	30	N2	
Perfluorooctanesulfonic acid	ug/kg	ND	0.19	0.2	0.16	0.18	76	82	50-150	8	30	N2	
Perfluorooctanoic acid	ug/kg	0.19	0.21	0.21	0.34	0.34	76	74	50-150	1	30	N2	
Perfluorotetradecanoic acid	ug/kg	ND	0.21	0.21	0.15	0.17	74	83	50-150	13	30	N2	
Perfluorotridecanoic acid	ug/kg	ND	0.21	0.21	0.15	0.16	73	77	50-150	6	30	N2	
Perfluoroundecanoic acid	ug/kg	ND	0.21	0.21	0.16	0.16	77	78	50-150	3	30	N2	
PFBA	ug/kg	ND	0.21	0.21	0.17	0.17	76	74	50-150	0	30	N2	
PFDoS	ug/kg	ND	0.2	0.2	0.15	0.16	76	78	50-150	4	30	N2	
PFDS	ug/kg	ND	0.2	0.2	0.13	0.16	67	82	50-150	22	30	N2	
PFHpS	ug/kg	ND	0.2	0.2	0.13	0.13	65	67	50-150	4	30	N2	
PFNS	ug/kg	ND	0.2	0.2	0.14	0.17	70	87	50-150	22	30	N2	
PFOSA	ug/kg	ND	0.21	0.21	0.14	0.16	69	77	50-150	12	30	N2	
PFPeA	ug/kg	ND	0.21	0.21	0.15	0.16	68	74	50-150	10	30	N2	
PFPeS	ug/kg	ND	0.19	0.2	0.16	0.17	81	84	50-150	5	30	N2	
13C2-PFDoA (S)	%						97	98	25-150				
13C2-PFTA (S)	%						93	88	25-150				
13C24:2FTS (S)	%						100	93	25-150				
13C26:2FTS (S)	%						119	101	25-150				
13C28:2FTS (S)	%						106	104	25-150				
13C3-PFBS (S)	%						103	98	25-150				
13C3-PFHxS (S)	%						100	97	25-150				
13C3HFPO-DA (S)	%						109	103	25-150				
13C4-PFBA (S)	%						98	98	25-150				
13C4-PFHpA (S)	%						96	94	25-150				
13C5-PFHxA (S)	%						103	101	25-150				

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QUALITY CONTROL DATA

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4647698 4647699														
Parameter	Units	10652169021		4647698		4647699		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS Result	MSD Result							
13C5-PFPeA (S)	%							102	100		25-150			
13C6-PFDA (S)	%							90	93		25-150			
13C7-PFUdA (S)	%							88	90		25-150			
13C8-PFOA (S)	%							93	94		25-150			
13C8-PFOS (S)	%							106	100		25-150			
13C8-PFOSA (S)	%							96	92		25-150			
13C9-PFNA (S)	%							96	95		25-150			
d3-MeFOSAA (S)	%							101	97		25-150			
d3-NMeFOSA (S)	%							89	86		10-150			
d5-EtFOSAA (S)	%							113	108		25-150			
d5-NEtFOSA (S)	%							91	86		10-150			
d7-NMeFOSE (S)	%							97	91		10-150			
d9-NEtFOSE (S)	%							89	86		10-150			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: E23-0254 3M Menomonie

Pace Project No.: 10652169

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- | | |
|----|---|
| 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 3M Menomonie
Pace Project No.: 10652169

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10652169001	MEWI-S-HA30-5-6 FT-0-230505	ASTM D2974	883406		
10652169002	MEWI-S-HA30-9-10 FT-0-230505	ASTM D2974	883406		
10652169003	MEWI-S-HA30-9-10 FT-DB-230505	ASTM D2974	883406		
10652169004	MEWI-S-HA31-3.5-4.5 FT-0-23050	ASTM D2974	883406		
10652169005	MEWI-S-HA31-8.5-9.5 FT-0-23050	ASTM D2974	883406		
10652169006	MEWI-S-HA31-8.5-9.5 FT-DB-2305	ASTM D2974	883406		
10652169007	MEWI-S-HA32-4-5 FT-0-230505	ASTM D2974	883406		
10652169008	MEWI-S-HA32-8.5-9.5 FT-0-23050	ASTM D2974	883406		
10652169009	MEWI-S-HA33-4-5 FT-0-230505	ASTM D2974	883406		
10652169010	MEWI-S-HA33-8.5-9.5 FT-0-23050	ASTM D2974	883406		
10652169011	MEWI-S-SB28-24-25 FT-0-230504	ASTM D2974	883406		
10652169012	MEWI-S-SB28-29-30 FT-0-230504	ASTM D2974	883406		
10652169013	MEWI-S-SB29-24-25 FT-0-230504	ASTM D2974	883406		
10652169014	MEWI-S-SB29-29-30 FT-0-230504	ASTM D2974	883406		
10652169015	MEWI-S-SB30-4.5-5.5 FT-0-23050	ASTM D2974	883406		
10652169016	MEWI-S-SB31-9-10 FT-0-230502	ASTM D2974	883406		
10652169017	MEWI-S-SB30-12.5-13.5 FT-0-230	ASTM D2974	883406		
10652169018	MEWI-S-SB30-19-20 FT-0-230503	ASTM D2974	883406		
10652169019	MEWI-S-SB31-1-2 FT-0-230502	ASTM D2974	883406		
10652169020	MEWI-S-SB31-9-10 FT-DB-230502	ASTM D2974	883406		
10652169021	MEWI-S-SB32-1-2 FT-0-230503	ASTM D2974	883476		
10652169022	MEWI-S-SB32-9-10 FT-0-230503	ASTM D2974	883476		
10652169023	MEWI-S-MW2-4.5-5.5 FT-0-230504	ASTM D2974	883476		
10652169024	MEWI-S-MW2-11.5-12.5 FT-0-2305	ASTM D2974	883476		
10652169025	MEWI-S-MW2-59-60 FT-0-230504	ASTM D2974	883476		
10652169026	MEWI-S-MW3-4.5-5.5 FT-0-230503	ASTM D2974	883476		
10652169027	MEWI-S-MW3-12.5-13.5 FT-0-2305	ASTM D2974	883476		
10652169028	MEWI-S-MW4-63-64 FT-0-230501	ASTM D2974	883476		
10652169029	MEWI-S-MW5-64-65 FT-0-230501	ASTM D2974	883476		
10652169030	MEWI-S-MW6-2-3 FT-0-230503	ASTM D2974	883476		
10652169031	MEWI-S-MW6-58-59 FT-0-230503	ASTM D2974	883476		
10652169032	MEWI-S-MW7-2-3 FT-0-230502	ASTM D2974	883476		
10652169033	MEWI-S-MW7-58-59 FT-0-230502	ASTM D2974	883476		
10652169042	MEWI-S-MW3-59-60 FT-0-230503	ASTM D2974	883476		
10652169034	MEWI-W-FB1-FB-230501	ENV-SOP-MIN4-0178	880080	ENV-SOP-MIN4-0178	883059
10652169035	MEWI-W-FB2-FB-230502	ENV-SOP-MIN4-0178	880080	ENV-SOP-MIN4-0178	883059
10652169036	MEWI-W-FB3-FB-230504	ENV-SOP-MIN4-0178	880080	ENV-SOP-MIN4-0178	883059
10652169037	MEWI-W-FB4-FB-230505	ENV-SOP-MIN4-0178	880080	ENV-SOP-MIN4-0178	883059
10652169038	MEWI-W-EB1-EB-230502	ENV-SOP-MIN4-0178	880080	ENV-SOP-MIN4-0178	883059
10652169039	MEWI-W-EB2-EB-230503	ENV-SOP-MIN4-0178	880080	ENV-SOP-MIN4-0178	883059
10652169040	MEWI-W-EB3-EB-230504	ENV-SOP-MIN4-0178	880080	ENV-SOP-MIN4-0178	883059
10652169041	MEWI-W-EB4-EB-230505	ENV-SOP-MIN4-0178	880080	ENV-SOP-MIN4-0178	883059
10652169001	MEWI-S-HA30-5-6 FT-0-230505	ENV-SOP-MIN4-0178	881401	ENV-SOP-MIN4-0178	883095
10652169002	MEWI-S-HA30-9-10 FT-0-230505	ENV-SOP-MIN4-0178	881401	ENV-SOP-MIN4-0178	883095
10652169003	MEWI-S-HA30-9-10 FT-DB-230505	ENV-SOP-MIN4-0178	881401	ENV-SOP-MIN4-0178	883095
10652169004	MEWI-S-HA31-3.5-4.5 FT-0-23050	ENV-SOP-MIN4-0178	881401	ENV-SOP-MIN4-0178	883095
10652169005	MEWI-S-HA31-8.5-9.5 FT-0-23050	ENV-SOP-MIN4-0178	881401	ENV-SOP-MIN4-0178	883095

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: E23-0254 3M Menomonie
Pace Project No.: 10652169

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10652169006	MEWI-S-HA31-8.5-9.5 FT-DB-2305	ENV-SOP-MIN4-0178	881401	ENV-SOP-MIN4-0178	883095
10652169007	MEWI-S-HA32-4-5 FT-0-230505	ENV-SOP-MIN4-0178	881401	ENV-SOP-MIN4-0178	883095
10652169008	MEWI-S-HA32-8.5-9.5 FT-0-23050	ENV-SOP-MIN4-0178	881401	ENV-SOP-MIN4-0178	883095
10652169009	MEWI-S-HA33-4-5 FT-0-230505	ENV-SOP-MIN4-0178	881401	ENV-SOP-MIN4-0178	883095
10652169010	MEWI-S-HA33-8.5-9.5 FT-0-23050	ENV-SOP-MIN4-0178	881401	ENV-SOP-MIN4-0178	883095
10652169011	MEWI-S-SB28-24-25 FT-0-230504	ENV-SOP-MIN4-0178	881401	ENV-SOP-MIN4-0178	883095
10652169012	MEWI-S-SB28-29-30 FT-0-230504	ENV-SOP-MIN4-0178	881401	ENV-SOP-MIN4-0178	883095
10652169013	MEWI-S-SB29-24-25 FT-0-230504	ENV-SOP-MIN4-0178	881401	ENV-SOP-MIN4-0178	883095
10652169014	MEWI-S-SB29-29-30 FT-0-230504	ENV-SOP-MIN4-0178	881401	ENV-SOP-MIN4-0178	883095
10652169015	MEWI-S-SB30-4.5-5.5 FT-0-23050	ENV-SOP-MIN4-0178	881401	ENV-SOP-MIN4-0178	883095
10652169016	MEWI-S-SB31-9-10 FT-0-230502	ENV-SOP-MIN4-0178	881401	ENV-SOP-MIN4-0178	883095
10652169017	MEWI-S-SB30-12.5-13.5 FT-0-230	ENV-SOP-MIN4-0178	881401	ENV-SOP-MIN4-0178	883095
10652169018	MEWI-S-SB30-19-20 FT-0-230503	ENV-SOP-MIN4-0178	881401	ENV-SOP-MIN4-0178	883095
10652169019	MEWI-S-SB31-1-2 FT-0-230502	ENV-SOP-MIN4-0178	881401	ENV-SOP-MIN4-0178	883095
10652169020	MEWI-S-SB31-9-10 FT-DB-230502	ENV-SOP-MIN4-0178	881983	ENV-SOP-MIN4-0178	883907
10652169021	MEWI-S-SB32-1-2 FT-0-230503	ENV-SOP-MIN4-0178	881983	ENV-SOP-MIN4-0178	883907
10652169022	MEWI-S-SB32-9-10 FT-0-230503	ENV-SOP-MIN4-0178	881983	ENV-SOP-MIN4-0178	883907
10652169023	MEWI-S-MW2-4.5-5.5 FT-0-230504	ENV-SOP-MIN4-0178	881983	ENV-SOP-MIN4-0178	883907
10652169024	MEWI-S-MW2-11.5-12.5 FT-0-2305	ENV-SOP-MIN4-0178	881983	ENV-SOP-MIN4-0178	883907
10652169025	MEWI-S-MW2-59-60 FT-0-230504	ENV-SOP-MIN4-0178	881983	ENV-SOP-MIN4-0178	883907
10652169026	MEWI-S-MW3-4.5-5.5 FT-0-230503	ENV-SOP-MIN4-0178	881983	ENV-SOP-MIN4-0178	883907
10652169027	MEWI-S-MW3-12.5-13.5 FT-0-2305	ENV-SOP-MIN4-0178	881983	ENV-SOP-MIN4-0178	883907
10652169028	MEWI-S-MW4-63-64 FT-0-230501	ENV-SOP-MIN4-0178	881983	ENV-SOP-MIN4-0178	883907
10652169029	MEWI-S-MW5-64-65 FT-0-230501	ENV-SOP-MIN4-0178	881983	ENV-SOP-MIN4-0178	883907
10652169030	MEWI-S-MW6-2-3 FT-0-230503	ENV-SOP-MIN4-0178	881983	ENV-SOP-MIN4-0178	883907
10652169031	MEWI-S-MW6-58-59 FT-0-230503	ENV-SOP-MIN4-0178	881983	ENV-SOP-MIN4-0178	883907
10652169032	MEWI-S-MW7-2-3 FT-0-230502	ENV-SOP-MIN4-0178	881983	ENV-SOP-MIN4-0178	883907
10652169033	MEWI-S-MW7-58-59 FT-0-230502	ENV-SOP-MIN4-0178	881983	ENV-SOP-MIN4-0178	883907
10652169042	MEWI-S-MW3-59-60 FT-0-230503	ENV-SOP-MIN4-0178	881983	ENV-SOP-MIN4-0178	883907

REPORT OF LABORATORY ANALYSIS

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3M Global EHS Laboratory

Chain of Custody / Request for Analytical

Project: E23-0254

WO#: 10652169

Sample Shipping Address

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

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@
Phone Number: 651-736-941



Record each container type/
preservative collected

Item	3M Sample Number	Sample Description	Date/Time Sampled	Matrix	Type of Sample	Sample Comment	9001	HDPE		
1	E23-0254-001	MEWI-S- SB23 ^{HA30} 5-6 FT-0-230505	5-5-23/8:40	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp	HA30	1			
2	E23-0254-002	MEWI-S- SB24 ^{HA30} 9-10 FT-0-230505	5-5-23/8:55	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp	HA30	1			
3	E23-0254-003	MEWI-S- SB24 ^{HA30} 9-10 FT- 0 ^{DB} 230505	5-5-23/9:00	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp	HA30(DB)	1			
4	E23-0254-004	MEWI-S- SB24 ^{HA31} 3.5-4.5 FT-0-230505	5-5-23/9:10	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp	HA31	1			
5	E23-0254-005	MEWI-S- SB25 ^{HA31} 8.5-9.5 FT-0-230505	5-5-23/9:25	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp	HA31	1			
6	E23-0254-006	MEWI-S- SB25 ^{HA31} 8.5-9.5 FT-DB-230505	5-5-23/9:30	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp	HA31 (DB)	1			
7	E23-0254-007	MEWI-S- SB25 ^{HA32} 4-5 FT-0-230505	5-5-23/10:25	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp	HA32	1			
8	E23-0254-008	MEWI-S- SB25 ^{HA32} 8.5-9.5 FT-0-230505	5-5-23/10:45	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp	HA32	1			
9	E23-0254-009	MEWI-S- SB25 ^{HA33} 4-5 FT-0-230505	5-5-23/11:10	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp	HA33	1			
10	E23-0254-010	MEWI-S- SB27 ^{HA33} 8.5-9.5 FT-0-230505	5-5-23/11:25	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp	HA33	1			
11	E23-0254-011	MEWI-S- SB27 FT-0		SOIL	<input type="checkbox"/> Grab <input type="checkbox"/> Comp					
12	E23-0254-012	MEWI-S-SB28-24-25 FT-0-230504	5-4-23/15:45	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1			
13	E23-0254-013	MEWI-S-SB28-29-30 FT-0-230504	5-4-23/16:00	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1			
14	E23-0254-014	MEWI-S-SB29-27-25 FT-0-230504-	5-4-23/15:30	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1			
15	E23-0254-015	MEWI-S-SB29-27-30 FT-0-230504-	5-4-23/15:35	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1			
16	E23-0254-016	MEWI-S-SB30-4.5-5.5 FT-0-230503	5-3-23/15:15	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1			

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Collected by (print): Connor Lanson Collector's signature: *Connor Lanson*

Item	Relinquished by:	Date	Time	Shipped Via	Received by:	Date	Time
	<i>Connor Lanson</i>	5/5/23	15:00		<i>Carolynne Trout</i>	5/5/23	15:18

Comments

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

3M Global EHS Laboratory

Chain of Custody / Request for Analytical

Project: E23-0254 (cont.)

Sample Shipping Address

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

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			
							20ML	100ML	Other	
17	E23-0254-017	MEWI-S-SB31- 9 - 10 FT-DB- 230502	5-2-23/8:00	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp	SB31	1			016
18	E23-0254-018	MEWI-S-SB30- 12.5-13.5 FT-0- 230503	5-3-23/15:30	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1			017
19	E23-0254-019	MEWI-S-SB30- 19 - 20 FT-0- 230503	5-3-23/15:45	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1			018
20	E23-0254-020	MEWI-S-SB31- 1 - 2 FT-0- 230502	5-2-23/7:55	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1			019
21	E23-0254-021	MEWI-S-SB31- 9 - 10 FT-DB- 230502	5-2-23/8:05	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1			020
22	E23-0254-022	MEWI-S-SB32- 1 - 2 FT-0- 230503	5-3-23/15:25	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1			021
23	E23-0254-023	MEWI-S-MW2- 9 - 10 FT-0- 230503	5-3-23/15:30	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp	SB32	1			022
24	E23-0254-024	MEWI-S-MW2- 4.5 - 5.5 FT-DB- 230504	5-4-23/8:40	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1			023
25	E23-0254-025	MEWI-S-MW2- 11.5 - 12.5 FT-0- 230504	5-4-23/8:50	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1			024
26	E23-0254-026	MEWI-S-MW2- 59 - 60 FT-0- 230504	5-4-23/13:15	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1			025
27	E23-0254-027	MEWI-S-MW3- 7.5 - 5.5 FT-0- 230503	5-3-23/8:15	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1			026
28	E23-0254-028	MEWI-S-MW3- 12.5 - 13.5 FT-0- 230503	5-3-23/8:35	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1			027
29	E23-0254-029	MEWI-S-MW3- 59 - 60 FT-0- 230503	5-3-23/11:05	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1			027
30	E23-0254-030	MEWI-S-MW4- 63 - 64 FT-0- 230501	5-1-23/16:35	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1			028
31	E23-0254-031	MEWI-S-MW5- 64 - 65 FT-0- 230501	5-1-23/10:10	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1			029
32	E23-0254-032	MEWI-S-MW6- 2 - 3 FT-0- 230503	5-3-23/8:15	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1			030

Collected by (print): Connor Larson		Collector's signature: Connor Larson				Comments	
Item	Relinquished by:	Date	Time	Shipped Via	Received by:	Date	Time
	Connor Larson	5/5/23	15:00		Connor Larson	5/5/23	15:18

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

6.0

3M Global EHS Laboratory

Chain of Custody / Request for Analytical

Project: E23-0254 (cont.)

Sample Shipping Address

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

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				
							90ML	HOPE			
33	E23-0254-033	MEWI-S-MW6-58 - 59 FT-0- 230503	5-3-23/9:25	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1				
34	E23-0254-034	MEWI-S-MW7- 2 - 3 FT-0- 230502	5-2-23/9:15	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1				
35	E23-0254-035	MEWI-S-MW7-58 - 59 FT-0-230502	5-2-23/11:40	SOIL	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1				
36	E23-0254-036	MEWI-GW-MW1-0-		WG	<input type="checkbox"/> Grab <input type="checkbox"/> Comp						
37	E23-0254-037	MEWI-GW-MW2-0-		WG	<input type="checkbox"/> Grab <input type="checkbox"/> Comp						
38	E23-0254-038	MEWI-GW-MW3-0-		WG	<input type="checkbox"/> Grab <input type="checkbox"/> Comp						
39	E23-0254-039	MEWI-GW-MW3-DB-		WG	<input type="checkbox"/> Grab <input type="checkbox"/> Comp						
40	E23-0254-040	MEWI-GW-MW4-0-		WG	<input type="checkbox"/> Grab <input type="checkbox"/> Comp						
41	E23-0254-041	MEWI-GW-MW5-0-		WG	<input type="checkbox"/> Grab <input type="checkbox"/> Comp						
42	E23-0254-042	MEWI-GW-MW6-0-		WG	<input type="checkbox"/> Grab <input type="checkbox"/> Comp						
43	E23-0254-043	MEWI-GW-MW7-0-		WG	<input type="checkbox"/> Grab <input type="checkbox"/> Comp						
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						

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Collected by (print): <i>Connor Lawton</i>		Collector's signature: <i>Connor Lawton</i>					
Item	Relinquished by:	Date	Time	Shipped Via	Received by:	Date	Time
	<i>Connor Lawton</i>	5/5/23	15:00		<i>Chloe Lab/Am</i>	5/5/23	15:18

Comments

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

4.0

3M Global EHS Laboratory

Chain of Custody / Request for Analytical

Project: E23-0254 (cont.)

Sample Shipping Address

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

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@mimm.com
 Phone Number: 651-736-9414

Item	3M Sample Number	Sample Description	Date/Time Sampled	Matrix	Type of Sample	Sample Comment	Number of Containers			
							250 mL	100 mL		
49	E23-0254-049	MEWI-W-FB1-FB- 230501	5/1/23 / 16:05	WQ	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1			034
50	E23-0254-050	MEWI-W-FB2-FB- 230502	5-2-23/ 16:10	WQ	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1			035
51	E23-0254-051	MEWI-W-FB3-FB- 230504	5-4-23/ 10:00	WQ	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1			036
52	E23-0254-052	MEWI-W-FB4-FB- 230505	5-5-23/ 11:40	WQ	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp		1			037
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- 230502	5-2-23/ 16:15	WQ	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp	Bit rinsate	1			038
55	E23-0254-055	MEWI-W-EB2-EB- 230503	5-3-23/ 7:40	WQ	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp	Bit rinsate	1			039
56	E23-0254-056	MEWI-W-EB3-EB- 230504	5-4-23/ 18:30	WQ	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp	Sample sleeve	1			040
57	E23-0254-057	MEWI-W-EB4-EB- 230505	5-5-23/ 11:35	WQ	<input checked="" type="checkbox"/> Grab <input type="checkbox"/> Comp	Hand auger	1			041
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): Connor Larson Collector's signature: *Connor Larson*

Item	Relinquished by:	Date	Time	Shipped Via	Received by:	Date	Time
	<i>Connor Larson</i>	5/5/23	15:00		<i>A. Albrecht</i>	5/5/23	15:18

Comments

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

6.0

Effective Date: 4/14/2023

Sample Condition Upon Receipt	Client Name: <u>3M 61661 EHS Lab</u>	Project #: _____	WO#: 10652169
Courier: <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input checked="" type="checkbox"/> Client <input type="checkbox"/> Pace <input type="checkbox"/> Speedee <input type="checkbox"/> Commercial		PM: CT1 Due Date: 05/22/23 CLIENT: 3M-COTTAGE	
Tracking Number: _____ <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142			

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No
 Packing Material: Bubble Wrap Bubble Bags None Other
 Thermometer: T1 (0461) T2 (0436) T3 (0459) T4 (0402) T5 (0178)
 T6 (0235) T7 (0042) T8 (0775) T9(0727) 01339252/1710

Biological Tissue Frozen? Yes No N/A
 Temp Blank? Yes No
 Type of Ice: Wet Blue Dry None
 Melted

Did Samples Originate in West Virginia? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Were All Container Temps Taken? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Temp should be above freezing to 6 °C Cooler temp Read w/Temp Blank: <u>5.8</u> °C	Average Corrected Temp (no temp blank only): _____ °C
Correction Factor: <u>add 0.2</u> Cooler Temp Corrected w/temp blank: <u>6.0</u> °C	<input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142 <input type="checkbox"/> 1 Container

USDA Regulated Soil: N/A, water sample/other: _____) Date/Initials of Person Examining Contents: 5/5/23 ADL

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):	COMMENTS
<input type="checkbox"/> Duluth <input checked="" type="checkbox"/> Minneapolis <input type="checkbox"/> Virginia	
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. <u>Missing Samples</u> samples located C.T 5/8/23
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 9.
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 11. If no, write ID/Date/Time of container below: <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
Is sufficient information available to reconcile the samples to the COC?	
Matrix: <input checked="" type="checkbox"/> Water <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other	
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 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 Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____
 Comments/Resolution: _____
 Project Manager Review: Carolynne Trout Date: 5/9/23

Report Prepared for:

Eric Carman
Tetra Tech EMI Inc.
2001 Killebrew Drive
Minneapolis MN 55425

**REPORT OF
LABORATORY
ANALYSIS
FOR PFAAs**

Report Information:

Pace Project #: 10635405
Sample Receipt Date: 12/01/2022
Client Project #: 117-7383011 3M CESA
Client Sub PO #: N/A
State Cert #: 999407970

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PFAA Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Kirsten Hogberg, your Pace Project Manager.

This report has been reviewed by:



January 25, 2023

Kirsten Hogberg, Project Manager
(612) 607-6407
(612) 607-6444 (fax)
kirsten.hogberg@pacelabs.com

Report Prepared Date:

January 6, 2023



Report of Laboratory Analysis

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The results relate only to the samples included in this report.

DISCUSSION

This report presents the results from the analyses performed on thirty-three samples, two matrix spikes, and two matrix spike duplicates submitted by a representative of Tetra Tech EMI Inc. The samples were analyzed for thirty-three perfluorinated compounds following Wisconsin DNR guidance. Reporting limits were set to MDL limits.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank was free of the target perfluorinated compounds at the reporting limits. This indicates that the sample processing procedures did not significantly contribute to the analyte content determined for the sample material.

A laboratory spike sample was also prepared with the sample batch using clean reference matrix that had been fortified with native standards. The recovery results were within the method limits. This spike indicates that extraction performed as expected. Matrix spikes were prepared with the sample batch using sample material from a separate project; results from that analysis will be provided upon request.

Diminished extracted internal standard (EIS) recovery ("R" flagged) were present in sample "MEWI-S-SB15-24-0", however, the use of the isotope dilution method generally precludes any adverse impact on those individual native compounds that have a directly associated standard.

Several samples have elevated EIS recoveries ("R" flagged) for FTS. While the use of the isotope dilution method generally precludes any adverse impact on those individual native compounds that have a directly associated standard, in the case of the FTS compounds, the recoveries are anomalously high, and are adversely impacted by matrix. The results for these native compounds should be considered estimated.

Results for selected analytes were taken from secondary dilutions of the sample extracts in order to bring the results within the calibration range. The affected values were flagged "D" on the results tables.

Values were flagged "I" where incorrect isotope ratios were obtained. Results that were below the calibration range were flagged "J".

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Missouri	10100
Alabama	40770	Montana	CERT0092
Alaska-DW	MN00064	Nebraska	NE-OS-18-06
Alaska-UST	17-009	Nevada	MN00064
Arizona	AZ0014	New Hampshire	2081
Arkansas - WW	88-0680	New Jersey	MN002
Arkansas-DW	MN00064	New York	11647
California	2929	North Carolina-	27700
Colorado	MN00064	North Carolina-	530
Connecticut	PH-0256	North Dakota	R-036
Florida	E87605	Ohio-DW	41244
Georgia	959	Ohio-VAP (170	CL101
Hawaii	MN00064	Ohio-VAP (180	CL110
Idaho	MN00064	Oklahoma	9507
Illinois	200011	Oregon-Primary	MN300001
Indiana	C-MN-01	Oregon-Second	MN200001
Iowa	368	Pennsylvania	68-00563
Kansas	E-10167	Puerto Rico	MN00064
Kentucky-DW	90062	South Carolina	74003
Kentucky-WW	90062	Tennessee	TN02818
Louisiana-DEQ	AI-84596	Texas	T104704192
Louisiana-DW	MN00064	Utah	MN00064
Maine	MN00064	Vermont	VT-027053137
Maryland	322	Virginia	460163
Michigan	9909	Washington	C486
Minnesota	027-053-137	West Virginia-D	382
Minnesota-Ag	via MN 027-053	West Virginia-D	9952C
Minnesota-Petr	1240	Wisconsin	999407970
Mississippi	MN00064	Wyoming-UST	via A2LA 2926.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix A

Sample Management

REPORT OF LABORATORY ANALYSIS

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Sample ID Cross Reference

<u>Client Sample ID</u>	<u>Pace Sample ID</u>	<u>Date Received</u>	<u>Sample Type</u>
MEWI-S-SB1-24-0	10635405001	12/01/2022	Solid
MEWI-S-SB2-24-0	10635405002	12/01/2022	Solid
MEWI-S-SB3-24-0	10635405003	12/01/2022	Solid
MEWI-S-SB4-24-0	10635405004	12/01/2022	Solid
MEWI-S-SB5-24-0	10635405005	12/01/2022	Solid
MEWI-S-SB8-24-0	10635405006	12/01/2022	Solid
MEWI-S-SB9-24-0	10635405007	12/01/2022	Solid
MEWI-S-SB12-24-0	10635405010	12/01/2022	Solid
MEWI-S-SB13-24-0	10635405011	12/01/2022	Solid
MEWI-S-SB14-24-0	10635405012	12/01/2022	Solid
MEWI-S-SB15-24-0	10635405013	12/01/2022	Solid
MEWI-S-SB16-24-0	10635405014	12/01/2022	Solid
MEWI-S-SB17-24-0	10635405015	12/01/2022	Solid
MEWI-S-SB18-24-0	10635405016	12/01/2022	Solid
MEWI-S-SB19-24-0	10635405017	12/01/2022	Solid
MEWI-S-SB20-24-0	10635405018	12/01/2022	Solid
MEWI-S-SB21-24-0	10635405019	12/01/2022	Solid
MEWI-S-SB22-24-0	10635405020	12/01/2022	Solid
MEWI-S-DB1-0	10635405021	12/01/2022	Solid
MEWI-S-DB2-0	10635405022	12/01/2022	Solid
MEWI-S-DB3-0	10635405023	12/01/2022	Solid
MEWI-S-SB23-24-0	10635405024	12/01/2022	Solid
MEWI-S-EB1-0	10635405025	12/01/2022	Water
MEWI-S-EB2-0	10635405026	12/01/2022	Water
MEWI-S-EB3-0	10635405027	12/01/2022	Water
MEWI-S-FB1-0	10635405028	12/01/2022	Water
MEWI-S-FB2-0	10635405029	12/01/2022	Water
MEWI-S-FB3-0	10635405030	12/01/2022	Water
MEWI-S-TB1-0	10635405031	12/01/2022	Water
MEWI-S-TB2-0	10635405032	12/01/2022	Water
MEWI-S-TB3-0	10635405033	12/01/2022	Water

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

de Analytical

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

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or

WO#: 10635405



ALL SH

Container Preservation:

10635405

Report No: 10635405

Billing Information:
 Address: **TETRA TECH**
5404 Alderson, Schenck WI

Report To: **Eric Carman**
 Copy To:

Email To: **Eric.wiemers@tetra.com**
 Site Collection Info/Address:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Customer Project Name/Number:
117-73830.1 3M CESA

State: / County/City: / Time Zone Collected:
 [] PT [] MT [] CT [] ET

Analyses

Lab Profile/Line: **44134**

Phone:
 Email:

Site/Facility ID #:

Compliance Monitoring?
 Yes No

Collected By (print):
Craig Wiemas

Purchase Order #:
 Quote #:

DW PWS ID #:
 DW Location Code:

Collected By (Signature):

Turnaround Date Required:
STANDARD

Immediately Packed on Ice:
 Yes No

Sample Disposal:
 Dispose as appropriate Return
 Archive:
 Hold:

Rush:
 Same Day Next Day
 2 Day 3 Day 4 Day 5 Day
 (Expedite Charges Apply)

Field Filtered (if applicable):
 Yes No
 Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
MEWI-S-582-24-0	S	G	11-24-22	10 ⁰⁰				X
MEWI-S-583-24-0	S	G	11-28-22	14 ⁰⁰				X
MEWI-S-587-24-0	S	G	11-28-22	13 ³⁰				X
MEWI-S-584-24-0	S	G	11-28-22	13 ⁴⁵				X
MEWI-S-585-24-0	S	G	11-28-22	14 ¹⁵				X
MEWI-S-588-24-0	S	G	11-28-22	16 ⁴⁵				X
MEWI-S-589-24-0	S	G	11-28-22	17 ⁰⁰				X
MEWI-S-5810-24-0								X
MEWI-S-5811-24-0								X
MEWI-S-5812-24-0	S	G	11-28-22	17 ¹⁰				X

PFAS - WFI ID 36

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA
 Custody Signatures Present Y N NA
 Collector Signature Present Y N NA
 Bottles Intact Y N NA
 Correct Bottles Y N NA
 Sufficient Volume Y N NA
 Samples Received on Ice Y N NA
 VOA - Headspace Acceptable Y N NA
 USDA Regulated Soils Y N NA
 Samples in Holding Time Y N NA
 Residual Chlorine Present Y N NA
 Cl Strips: _____
 Sample pH Acceptable Y N NA
 pH Strips: _____
 Sulfide Present Y N NA
 Lead Acetate Strips: _____

LAB USE ONLY:
 Lab Sample # / Comments:

CU
 W2
 W3
 W4
 W5
 W6
 W7
 W10

Customer Remarks / Special Conditions / Possible Hazards:
 Type of Ice Used: Wet Blue Dry None
 Packing Material Used:
 Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A
 Lab Tracking #: **2843587**
 Samples received via:
 FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
 Temp Blank Received: Y N NA
 Therm ID#: **T3**
 Cooler 1 Temp Upon Receipt: **4.4** oC
 Cooler 1 Therm Corr. Factor: **+0.1** oC
 Cooler 1 Corrected Temp: **4.5** oC
 Comments:

Relinquished by/Company: (Signature)

 Relinquished by/Company: (Signature)

 Relinquished by/Company: (Signature)

Date/Time: **11/20/22 16⁰⁰**
 Received by/Company: (Signature)
F2 EX 11/30/22
 Date/Time: **11/30/22 16⁰⁰**
 Received by/Company: (Signature)
Naming / Pace
 Date/Time: **12/1/22 850**
 Received by/Company: (Signature)

MTJL LAB USE ONLY
 Table #:
 Acctnum:
 Template:
 Prelogin:
 PM:
 PB:

Trip Blank Received: Y N NA
 HCL MeOH TSP Other
 Non Conformance(s): YES / NO
 Page: **4**
 of: **4**

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CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Report No: 10635405 ID36-2-off

Company: **Tetra Tech** Billing Information: **Tetra Tech**
 Address: **5907 Alderson School WI** **Schofield WI**
 Report To: **Eric Carman** Email To: **Craig Wieman tetra.tech.com**
 Copy To: Site Collection Info/Address:

Customer Project Name/Number: **117-7383611** State: **WI** County/City: **Menomonee** Time Zone Collected: **[] PT [] MT [] CT [] ET**

Phone: Site/Facility ID #: Compliance Monitoring? **[] Yes [] No**
 Email: Purchase Order #: DW PWS ID #: **PFAS-WI ID 36**
 Quote #: DW Location Code:
 Collected By (print): **Craig A Wieman** Turnaround Date Required: **STANDARD** Immediately Packed on Ice: **[] Yes [] No**
 Collected By (Signature): *[Signature]* Field Filtered (if applicable): **[] Yes [] No**
 Sample Disposal: Rush: **[] Same Day [] Next Day** Analysis: **[] Yes [] No**
 Dispose as appropriate Return Archive: **[] 2 Day [] 3 Day [] 4 Day [] 5 Day** (Expedite Charges Apply)

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
MEWI-S-SB3-24-C	S	G	11-28-22	15:30				X
MEWI-S-SB4-24-C	S	G	11-28-22	15:40				X
MEWI-S-SB5-24-C	S	G	11-28-22	15:50				X
MEWI-S-SB6-24-C	S	G	11-28-22	16:00				X
MEWI-S-SB7-24-C	S	G	11-28-22	16:40				X
MEWI-S-SB8-24-C	S	G	11-28-22	16:50				X
MEWI-S-SB9-24-C	S	G	11-28-22	16:00				X
MEWI-S-SB20-24-C	S	G	11-28-22	17:50				X
MEWI-S-SB21-24-C	S	G	11-29-22	12:42				X
MEWI-S-SB22-24-C	S	G	11-29-22	16:30				X

Container Preservative Type ** Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses Lab Profile/Line: **44134**

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA
 Custody Signatures Present Y N NA
 Collector Signature Present Y N NA
 Bottles Intact Y N NA
 Correct Bottles Y N NA
 Sufficient Volume Y N NA
 Samples Received on Ice Y N NA
 VOA - Headspace Acceptable Y N NA
 USDA Regulated Soils Y N NA
 Samples in Holding Time Y N NA
 Residual Chlorine Present Y N NA
 Cl Strips: _____
 Sample pH Acceptable Y N NA
 pH Strips: _____
 Sulfide Present Y N NA
 Lead Acetate Strips: _____

LAB USE ONLY:
 Lab Sample # / Comments:

011
012
013
014
015
016
017
018
019
020

Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: **Wet** Blue Dry None SHORT HOLDS PRESENT (<72 hours): Y N N/A

Packing Material Used: Lab Tracking #: **2843588**

Radchem sample(s) screened (<500 cpm): Y N NA Samples received via: **FEDEX** UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: **(Y)** N NA
 Therm ID#: **T3**
 Cooler 1 Temp Upon Receipt: **4.4** oC
 Cooler 1 Therm Corr. Factor: **+0.1** oC
 Cooler 1 Corrected Temp: **4.5** oC
 Comments:

Relinquished by/Company: (Signature) <i>[Signature]</i>	Date/Time: 11/30/22 16:00	Received by/Company: (Signature) FE EX II	Date/Time: 11/30/22 16:00	MTJL LAB USE ONLY
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature) Nancy Pace	Date/Time: 12/1/22 8:50	Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum:
				Template:
				Prelogin:
				PM:
				PB:

Trip Blank Received: Y N NA
 HCL MeOH TSP Other

Non Conformance(s): YES / NO Page: **3** of: **7**

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CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Report No: 10639405_1036_22-off

Company: **Tetra Tech**
 Address: **5404 Alderson**
 Report To: **Eric Carman**
 Copy To:
 Billing Information: **Tetra Tech**
Schedul WI
 Email To: **Craig Wieman@tetratech.com**
 Site Collection Info/Address:
 Customer Project Name/Number: **117-7383011 3M CESA**
 State: **WI** County/City: **Merrimack** Time Zone Collected: [] PT [] MT [X] CT [] ET
 Phone: **715/432-5070** Site/Facility ID #: Compliance Monitoring? [] Yes [] No
 Collected By (print): **Craig Wieman** Purchase Order #: DW PWS ID #:
 Collected By (signature): *[Signature]* Quote #: DW Location Code:
 Turnaround Date Required: **Standard** Immediately Packed on Ice: [X] Yes [] No
 Sample Disposal: [X] Dispose as appropriate [] Return [] Archive [] Hold: Rush: [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [] Yes [] No
 Analysis: **N/A**

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
MEWL-S-SB23-24-0	S	G	11/29/22	10 ³⁰				X
MEWI-S-EB1-0	S	G	11/29/22	20 ⁰⁰				X
MEWI-S-EB2-0	S	G	11/29/22	14 ³⁰				X
MEWI-S-EB3-0	S	G	11/30/22	10 ⁰⁰				X
MEWI-S-FB1-0	S	G	11/29/22	09 ¹⁵				X
MEWI-S-FB2-0	S	G	11/29/22	11 ³⁰				X
MEWI-S-FB3-0	S	G	11/29/22	14 ²⁰				X
MEWI-S-TB1-0	S	G	11/29/22	09 ⁰⁰				X
MEWI-S-TB2-0	S	G	11/29/22	08 ⁰⁰				X
MEWI-S-TB3-0	S	G	11/29/22	08 ⁰⁰				X

PFAS - WI TD 36

Container Preservative Type **										Lab Project Manager:
** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other										Lab Profile/Line: 44134
Analyses										Lab Sample Receipt Checklist:
										Custody Seals Present/Intact Y N NA
										Custody Signatures Present Y N NA
										Collector Signature Present Y N NA
										Bottles Intact Y N NA
										Correct Bottles Y N NA
										Sufficient Volume Y N NA
										Samples Received on Ice Y N NA
										VOA - Headspace Acceptable Y N NA
										USDA Regulated Soils Y N NA
										Samples in Holding Time Y N NA
										Residual Chlorine Present Y N NA
										Cl Strips: _____
										Sample pH Acceptable Y N NA
										pH Strips: _____
										Sulfide Present Y N NA
										Lead Acetate Strips: _____
										LAB USE ONLY:
										Lab Sample # / Comments:

007
028
026
027
028
029
030
031
032
033

Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: **Wet** Blue Dry None
 Packing Material Used:
 Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A
 Lab Tracking #: **2843590**
 Samples received via: **FEDEX** UPS Client Courier Pace Courier

Lab Sample Temperature Info:
 Temp Blank Received: **(Y) N NA**
 Therm ID#: **T3**
 Cooler 1 Temp Upon Receipt: **4.4** oC
 Cooler 1 Therm Corr. Factor: **-1** oC
 Cooler 1 Corrected Temp: **4.5** oC
 Comments:

Relinquished by/Company: (Signature) <i>[Signature]</i>	Date/Time: 11/30/22	Received by/Company: (Signature) FEDEX	Date/Time: 11/30/22 16⁰⁰
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature) Nancy Pace	Date/Time: 12/1/22 850
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
 Table #:
 Acctnum:
 Template:
 Prelogin:
 PM:
 PB:

Trip Blank Received: Y N NA
 HCL MeOH TSP Other
 Non Conformance(s): YES / NO
 Page: **4** of: **4**

Page 9 of 177

Effective Date: 11/16/2022

Sample Condition Upon Receipt Client Name: Tetra Tech

Project #:

WO# : 10635405
 PM: KNH Due Date: 12/30/22
 CLIENT: 3M ENV

Courier: FedEx UPS USPS Client
 Pace Speedee Commercial

Tracking Number: 770636610765 See Exceptions ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No
 Packing Material: Bubble Wrap Bubble Bags None Other
 Thermometer: T1 (0461) T2 (1336) T3 (0459) T4 (0254) T5 (0178)
 T6 (0235) T7 (0042) T8 (0775) T9(0727) 01339252/1710
 Biological Tissue Frozen? Yes No N/A
 Temp Blank? Yes No
 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: 4.4 °C Average Corrected Temp (no temp blank only): _____ °C
 Correction Factor: 1.1 Cooler Temp Corrected w/temp blank: 4.5 °C See Exceptions ENV-FRM-MIN4-0142 1 Container

USDA Regulated Soil: N/A, water sample/other: _____ Date/Initials of Person Examining Contents: 12/1/22 MV
 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 checked="" 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 type="checkbox"/> No <input checked="" 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 type="checkbox"/> Water <input checked="" 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) 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.)	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: Kirsten Hojberg Date: 12/6/2022

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: MV Line: 3

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10635405001	MEWI-S-SB1-24-0	SW3535	34460	PFAS-36	B221220C_00
10635405002	MEWI-S-SB-2-24-0	SW3535	34460	PFAS-36	B221220C_00
10635405003	MEWI-S-SB3-24-0	SW3535	34460	PFAS-36	B221220C_00
10635405004	MEWI-S-SB4-24-0	SW3535	34460	PFAS-36	B221220C_00
10635405005	MEWI-S-SB5-24-0	SW3535	34460	PFAS-36	B221220C_00
10635405006	MEWI-S-SB8-24-0	SW3535	34460	PFAS-36	B221220C_00
10635405007	MEWI-S-SB9-24-0	SW3535	34460	PFAS-36	B221220C_01
10635405010	MEWI-S-SB12-24-0	SW3535	34460	PFAS-36	B221220C_01
10635405011	MEWI-S-SB13-24-0	SW3535	34460	PFAS-36	B221220C_01
10635405012	MEWI-S-SB14-24-0	SW3535	34460	PFAS-36	B221220C_01
10635405013	MEWI-S-SB15-24-0	SW3535	34460	PFAS-36	B221220C_01
10635405013	MEWI-S-SB15-24-0	SW3535	34460	PFAS-36	B221221A_01
10635405014	MEWI-S-SB16-24-0	SW3535	34460	PFAS-36	B221220C_01
10635405015	MEWI-S-SB17-24-0	SW3535	34460	PFAS-36	B221220C_01
10635405016	MEWI-S-SB18-24-0	SW3535	34460	PFAS-36	B221220C_01
10635405017	MEWI-S-SB19-24-0	SW3535	34460	PFAS-36	B221220C_01
10635405018	MEWI-S-SB20-24-0	SW3535	34460	PFAS-36	B221220C_01
10635405019	MEWI-S-SB21-24-0	SW3535	34460	PFAS-36	B221220C_02
10635405020	MEWI-S-SB22-24-0	SW3535	34460	PFAS-36	B221220C_02
10635405020	MEWI-S-SB22-24-0	SW3535	34460	PFAS-36	B221221A_01
10635405021	MEWI-S-DB1-0	SW3535	34470	PFAS-36	B221222A_00
10635405022	MEWI-S-DB2-0	SW3535	34470	PFAS-36	B221222A_00
10635405023	MEWI-S-DB3-0	SW3535	34470	PFAS-36	B221222A_00
10635405024	MEWI-S-SB23-24-0	SW3535	34470	PFAS-36	B221222A_00
10635405025	MEWI-S-EB1-0	SW3535	34518	PFAS-36	B230103C_00
10635405026	MEWI-S-EB2-0	SW3535	34518	PFAS-36	B230103C_00
10635405027	MEWI-S-EB3-0	SW3535	34518	PFAS-36	B230103C_00
10635405028	MEWI-S-FB1-0	SW3535	34518	PFAS-36	B230103C_00
10635405029	MEWI-S-FB2-0	SW3535	34518	PFAS-36	B230103C_00
10635405030	MEWI-S-FB3-0	SW3535	34518	PFAS-36	B230103C_00
10635405031	MEWI-S-TB1-0	SW3535	34518	PFAS-36	B230103C_00
10635405032	MEWI-S-TB2-0	SW3535	34518	PFAS-36	B230103C_01
10635405033	MEWI-S-TB3-0	SW3535	34518	PFAS-36	B230103C_01



Reporting Flags

- A = Reporting Limit based on signal to noise (EDL)
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- H2 = Extracted outside of holding time
- I = Isotope ratio out of specification
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
Phone: 612.607.1700
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www.pacelabs.com

Appendix B

Sample Analysis Summary

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB1-24-0
 Lab Sample ID 10635405001
 Lab File ID B221220C_011
 Matrix Solid
 Collected 11/29/2022 10:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.11g
 Ical ID 221219A02
 CCal File B221220C_005
 Ending CCal File B221220C_017
 Blank File B221220C_007

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.098	0.028	0.028	1	375-22-4		12/20/2022 23:59
PFPeA	ND	0.098	0.028	0.028	1	2706-90-3		12/20/2022 23:59
HFPO-DA	ND	0.098	0.027	0.027	1	13252-13-6		12/20/2022 23:59
PFBS	ND	0.087	0.026	0.026	1	375-73-5		12/20/2022 23:59
PFHxA	ND	0.098	0.027	0.027	1	307-24-4		12/20/2022 23:59
4:2 FTS	ND	0.091	0.023	0.023	1	757124-72-4		12/20/2022 23:59
PFPeS	ND	0.092	0.023	0.023	1	2706-91-4		12/20/2022 23:59
PFHpA	ND	0.098	0.034	0.034	1	375-85-9		12/20/2022 23:59
DONA	ND	0.092	0.035	0.035	1	919005-14-4		12/20/2022 23:59
PFHxS	ND	0.089	0.021	0.021	1	355-46-4		12/20/2022 23:59
PFOA	ND	0.098	0.030	0.030	1	335-67-1		12/20/2022 23:59
6:2 FTS	ND	0.093	0.040	0.040	1	27619-97-2		12/20/2022 23:59
PFHpS	ND	0.093	0.027	0.027	1	375-92-8		12/20/2022 23:59
PFNA	ND	0.098	0.030	0.030	1	375-95-1		12/20/2022 23:59
PFOSAm	ND	0.098	0.029	0.029	1	754-91-6		12/20/2022 23:59
PFOS	ND	0.090	0.029	0.029	1	1763-23-1		12/20/2022 23:59
MeFOSA	ND	0.098	0.027	0.027	1	31506-32-8		12/20/2022 23:59
PFDA	ND	0.098	0.022	0.022	1	335-76-2		12/20/2022 23:59
EtFOSAm	ND	0.098	0.025	0.025	1	4151-50-2		12/20/2022 23:59
8:2 FTS	ND	0.094	0.043	0.043	1	39108-34-4		12/20/2022 23:59
9-CI-PF3ON	ND	0.091	0.025	0.025	1	756426-58-1		12/20/2022 23:59
PFNS	ND	0.094	0.034	0.034	1	68259-12-1		12/20/2022 23:59
PFUnDA	ND	0.098	0.030	0.030	1	2058-94-8		12/20/2022 23:59
NMeFOSAA	ND	0.098	0.027	0.027	1	2355-31-9		12/20/2022 23:59
NEtFOSAA	ND	0.098	0.039	0.039	1	2991-50-6		12/20/2022 23:59
PFDS	ND	0.094	0.028	0.028	1	335-77-3		12/20/2022 23:59
PFDOA	ND	0.098	0.032	0.032	1	307-55-1		12/20/2022 23:59
MeFOSE	ND	0.098	0.030	0.030	1	24448-09-7		12/20/2022 23:59
EtFOSE	ND	0.098	0.031	0.031	1	1691-99-2		12/20/2022 23:59
11-CI-PF3OUdS	ND	0.092	0.025	0.025	1	763051-92-9		12/20/2022 23:59
PFTTrDA	ND	0.098	0.031	0.031	1	72629-94-8		12/20/2022 23:59
PFDoS	ND	0.095	0.026	0.026	1	79780-39-5		12/20/2022 23:59
PFTDA	ND	0.098	0.034	0.034	1	376-06-7		12/20/2022 23:59

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB1-24-0
 Lab Sample ID 10635405001
 Lab File ID B221220C_011
 Matrix Solid
 Collected 11/29/2022 10:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.11g
 Ical ID 221219A02
 CCal File B221220C_005
 Ending CCal File B221220C_017
 Blank File B221220C_007

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.98	0.77	78	25-150		12/20/2022 23:59
13C5 PFPeA	0.98	0.76	77	25-150		12/20/2022 23:59
13C3 PFBS	0.91	0.74	81	25-150		12/20/2022 23:59
13C2 4:2FTS	0.91	1.0	110	25-150		12/20/2022 23:59
13C5 PFHxA	0.98	0.75	77	25-150		12/20/2022 23:59
13C4 PFHpA	0.98	0.80	82	25-150		12/20/2022 23:59
13C3 PFHxS	0.93	0.70	75	25-150		12/20/2022 23:59
13C2 6:2FTS	0.93	1.1	118	25-150		12/20/2022 23:59
13C8 PFOA	0.98	0.78	79	25-150		12/20/2022 23:59
13C9 PFNA	0.98	0.76	78	25-150		12/20/2022 23:59
13C8 PFOS	0.94	0.79	84	25-150		12/20/2022 23:59
13C2 8:2FTS	0.94	1.6	166	25-150	R	12/20/2022 23:59
13C6 PFDA	0.98	0.89	91	25-150		12/20/2022 23:59
d3-MeFOSAA	0.98	0.90	92	25-150		12/20/2022 23:59
13C8 PFOSA	0.98	1.0	107	25-150		12/20/2022 23:59
d5-EtFOSAA	0.98	1.1	111	25-150		12/20/2022 23:59
13C7 PFUdA	0.98	0.95	97	25-150		12/20/2022 23:59
13C2 PFDoA	0.98	1.1	108	25-150		12/20/2022 23:59
13C2 PFTeDA	0.98	1.2	125	25-150		12/20/2022 23:59
13C3 HFPO-DA	0.98	0.74	76	25-150		12/20/2022 23:59
d7-N-MeFOSE	0.98	0.87	89	10-150		12/20/2022 23:59
d9-N-EtFOSE	0.98	0.89	91	10-150		12/20/2022 23:59
d3-N-MeFOSA	0.98	0.76	78	10-150		12/20/2022 23:59
d5-N-EtFOSA	0.98	0.63	64	10-150		12/20/2022 23:59

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB1-24-0
 Lab Sample ID 10635405001
 Lab File ID B221220C_011
 Matrix Solid
 Collected 11/29/2022 10:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.11g
 Ical ID 221219A02
 CCal File B221220C_005
 Ending CCal File B221220C_017
 Blank File B221220C_007

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.19	4.20	21		12/20/2022 23:59
13C5 PFPeA	N/A	N/A	5.05	5.06	25		12/20/2022 23:59
13C3 PFBS	N/A	N/A	6.01	6.05	20		12/20/2022 23:59
13C2 4:2FTS	N/A	N/A	5.46	5.50	91		12/20/2022 23:59
13C5 PFHxA	N/A	N/A	5.74	5.78	19		12/20/2022 23:59
13C4 PFHpA	N/A	N/A	6.42	6.45	19		12/20/2022 23:59
13C3 PFHxS	N/A	N/A	7.52	7.58	23		12/20/2022 23:59
13C2 6:2FTS	N/A	N/A	6.74	6.77	14		12/20/2022 23:59
13C8 PFOA	N/A	N/A	7.09	7.13	25		12/20/2022 23:59
13C9 PFNA	N/A	N/A	7.76	7.78	20		12/20/2022 23:59
13C8 PFOS	N/A	N/A	8.94	8.98	15		12/20/2022 23:59
13C2 8:2FTS	N/A	N/A	8.05	8.07	19	R	12/20/2022 23:59
13C6 PFDA	N/A	N/A	8.44	8.46	16		12/20/2022 23:59
d3-MeFOSAA	N/A	N/A	8.29	8.31	18		12/20/2022 23:59
13C8 PFOSA	N/A	N/A	10.58	10.62	11		12/20/2022 23:59
d5-EtFOSAA	N/A	N/A	8.59	8.61	15		12/20/2022 23:59
13C7 PFUdA	N/A	N/A	9.12	9.16	24		12/20/2022 23:59
13C2 PFDoA	N/A	N/A	9.80	9.85	12		12/20/2022 23:59
13C2 PFTeDA	N/A	N/A	11.17	11.21	14		12/20/2022 23:59
13C3 HFPO-DA	N/A	N/A	6.02	6.03	13		12/20/2022 23:59
d7-N-MeFOSE	N/A	N/A	12.50	12.54	48		12/20/2022 23:59
d9-N-EtFOSE	N/A	N/A	12.97	13.00	15		12/20/2022 23:59
d3-N-MeFOSA	N/A	N/A	12.70	12.73	72		12/20/2022 23:59
d5-N-EtFOSA	N/A	N/A	13.12	13.15	79		12/20/2022 23:59

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB1-24-0
 Lab Sample ID 10635405001
 Lab File ID B221220C_011
 Matrix Solid
 Collected 11/29/2022 10:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.11g
 Ical ID 221219A02
 CCal File B221220C_005
 Ending CCal File B221220C_017
 Blank File B221220C_007

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.19	4.20	ND		12/20/2022 23:59
PFPeA	N/A	N/A	5.06	5.06	ND		12/20/2022 23:59
HFPO-DA	0.50	0.34	6.03	6.04	ND		12/20/2022 23:59
PFBS	0.00	0.44	0.00	6.03	ND		12/20/2022 23:59
PFHxA	0.06	0.07	5.75	5.76	ND		12/20/2022 23:59
4:2 FTS	0.00	0.81	0.00	5.50	ND		12/20/2022 23:59
PFPeS	0.00	0.39	0.00	6.83	ND		12/20/2022 23:59
PFHpA	0.28	0.32	6.42	6.46	ND		12/20/2022 23:59
DONA	0.00	0.63	0.00	6.70	ND		12/20/2022 23:59
PFHxS	0.00	0.37	0.00	7.58	ND		12/20/2022 23:59
PFOA	0.27	0.39	7.10	7.11	ND		12/20/2022 23:59
6:2 FTS	1.60	0.75	6.75	6.76	ND		12/20/2022 23:59
PFHpS	0.00	0.37	0.00	8.27	ND		12/20/2022 23:59
PFNA	0.27	0.17	7.77	7.79	ND		12/20/2022 23:59
PFOSAm	N/A	N/A	10.59	10.71	ND		12/20/2022 23:59
PFOS	0.29	0.45	8.95	9.11	ND		12/20/2022 23:59
MeFOSA	0.00	0.66	0.00	12.78	ND		12/20/2022 23:59
PFDA	0.00	0.18	0.00	8.53	ND		12/20/2022 23:59
EtFOSAm	0.00	0.51	0.00	13.20	ND		12/20/2022 23:59
8:2 FTS	0.00	0.86	0.00	8.13	ND		12/20/2022 23:59
9-Cl-PF3ON	0.00	0.07	0.00	9.49	ND		12/20/2022 23:59
PFNS	0.00	0.41	0.00	9.68	ND		12/20/2022 23:59
PFUnDA	0.00	0.13	0.00	9.17	ND		12/20/2022 23:59
NMeFOSAA	0.00	0.84	0.00	8.32	ND		12/20/2022 23:59
NEtFOSAA	0.00	0.59	0.00	8.62	ND		12/20/2022 23:59
PFDS	0.00	0.33	0.00	10.37	ND		12/20/2022 23:59
PFDOA	0.16	0.17	9.79	9.86	ND		12/20/2022 23:59
MeFOSE	N/A	N/A	0.00	12.59	ND		12/20/2022 23:59
EtFOSE	0.00	0.00	0.00	13.04	ND		12/20/2022 23:59
11-Cl-PF3OUdS	0.00	0.02	0.00	10.86	ND		12/20/2022 23:59
PFTTrDA	0.00	0.18	0.00	10.54	ND		12/20/2022 23:59
PFDoS	0.00	0.49	0.00	11.64	ND		12/20/2022 23:59
PFTDA	0.30	0.26	11.17	11.21	ND		12/20/2022 23:59

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB-2-24-0
 Lab Sample ID 10635405002
 Lab File ID B221220C_012
 Matrix Solid
 Collected 11/28/2022 14:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.08g
 Ical ID 221219A02
 CCal File B221220C_005
 Ending CCal File B221220C_017
 Blank File B221220C_007

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	0.035 J	0.098	0.028	0.028	1	375-22-4		12/21/2022 00:19
PFPeA	ND	0.098	0.028	0.028	1	2706-90-3		12/21/2022 00:19
HFPO-DA	ND	0.098	0.027	0.027	1	13252-13-6		12/21/2022 00:19
PFBS	ND	0.087	0.026	0.026	1	375-73-5		12/21/2022 00:19
PFHxA	0.044 J	0.098	0.027	0.027	1	307-24-4		12/21/2022 00:19
4:2 FTS	ND	0.092	0.023	0.023	1	757124-72-4		12/21/2022 00:19
PFPeS	ND	0.092	0.024	0.024	1	2706-91-4		12/21/2022 00:19
PFHpA	ND	0.098	0.034	0.034	1	375-85-9		12/21/2022 00:19
DONA	ND	0.093	0.036	0.036	1	919005-14-4		12/21/2022 00:19
PFHxS	0.11	0.090	0.022	0.022	1	355-46-4		12/21/2022 00:19
PFOA	0.095 J	0.098	0.031	0.031	1	335-67-1		12/21/2022 00:19
6:2 FTS	ND	0.093	0.041	0.041	1	27619-97-2		12/21/2022 00:19
PFHpS	0.029 J	0.093	0.027	0.027	1	375-92-8		12/21/2022 00:19
PFNA	ND	0.098	0.031	0.031	1	375-95-1		12/21/2022 00:19
PFOSAm	ND	0.098	0.029	0.029	1	754-91-6		12/21/2022 00:19
PFOS	2.0	0.091	0.029	0.029	1	1763-23-1		12/21/2022 00:19
MeFOSA	ND	0.098	0.027	0.027	1	31506-32-8		12/21/2022 00:19
PFDA	ND	0.098	0.022	0.022	1	335-76-2		12/21/2022 00:19
EtFOSAm	ND	0.098	0.025	0.025	1	4151-50-2		12/21/2022 00:19
8:2 FTS	ND	0.094	0.043	0.043	1	39108-34-4		12/21/2022 00:19
9-CI-PF3ON	ND	0.092	0.025	0.025	1	756426-58-1		12/21/2022 00:19
PFNS	ND	0.094	0.034	0.034	1	68259-12-1		12/21/2022 00:19
PFUnDA	ND	0.098	0.030	0.030	1	2058-94-8		12/21/2022 00:19
NMeFOSAA	ND	0.098	0.028	0.028	1	2355-31-9		12/21/2022 00:19
NEtFOSAA	ND	0.098	0.040	0.040	1	2991-50-6		12/21/2022 00:19
PFDS	ND	0.095	0.028	0.028	1	335-77-3		12/21/2022 00:19
PFDOA	ND	0.098	0.032	0.032	1	307-55-1		12/21/2022 00:19
MeFOSE	ND	0.098	0.030	0.030	1	24448-09-7		12/21/2022 00:19
EtFOSE	ND	0.098	0.032	0.032	1	1691-99-2		12/21/2022 00:19
11-CI-PF3OUdS	ND	0.093	0.025	0.025	1	763051-92-9		12/21/2022 00:19
PFTTrDA	ND	0.098	0.031	0.031	1	72629-94-8		12/21/2022 00:19
PFDoS	ND	0.095	0.026	0.026	1	79780-39-5		12/21/2022 00:19
PFTDA	ND	0.098	0.034	0.034	1	376-06-7		12/21/2022 00:19

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB-2-24-0
 Lab Sample ID 10635405002
 Lab File ID B221220C_012
 Matrix Solid
 Collected 11/28/2022 14:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.08g
 Ical ID 221219A02
 CCal File B221220C_005
 Ending CCal File B221220C_017
 Blank File B221220C_007

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.98	0.82	83	25-150		12/21/2022 00:19
13C5 PFPeA	0.98	0.83	84	25-150		12/21/2022 00:19
13C3 PFBS	0.91	0.78	85	25-150		12/21/2022 00:19
13C2 4:2FTS	0.92	1.0	110	25-150		12/21/2022 00:19
13C5 PFHxA	0.98	0.81	82	25-150		12/21/2022 00:19
13C4 PFHpA	0.98	0.87	89	25-150		12/21/2022 00:19
13C3 PFHxS	0.93	0.80	86	25-150		12/21/2022 00:19
13C2 6:2FTS	0.93	0.93	100	25-150		12/21/2022 00:19
13C8 PFOA	0.98	0.81	82	25-150		12/21/2022 00:19
13C9 PFNA	0.98	0.81	82	25-150		12/21/2022 00:19
13C8 PFOS	0.94	0.86	92	25-150		12/21/2022 00:19
13C2 8:2FTS	0.94	1.2	127	25-150		12/21/2022 00:19
13C6 PFDA	0.98	0.89	91	25-150		12/21/2022 00:19
d3-MeFOSAA	0.98	0.94	96	25-150		12/21/2022 00:19
13C8 PFOSA	0.98	0.85	87	25-150		12/21/2022 00:19
d5-EtFOSAA	0.98	0.99	101	25-150		12/21/2022 00:19
13C7 PFUdA	0.98	0.98	99	25-150		12/21/2022 00:19
13C2 PFDoA	0.98	1.1	107	25-150		12/21/2022 00:19
13C2 PFTeDA	0.98	1.1	117	25-150		12/21/2022 00:19
13C3 HFPO-DA	0.98	0.75	77	25-150		12/21/2022 00:19
d7-N-MeFOSE	0.98	0.74	75	10-150		12/21/2022 00:19
d9-N-EtFOSE	0.98	0.79	81	10-150		12/21/2022 00:19
d3-N-MeFOSA	0.98	0.26	27	10-150		12/21/2022 00:19
d5-N-EtFOSA	0.98	0.24	24	10-150		12/21/2022 00:19

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Client Sample ID MEWI-S-SB-2-24-0
 Lab Sample ID 10635405002
 Lab File ID B221220C_012
 Matrix Solid
 Collected 11/28/2022 14:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.08g
 Ical ID 221219A02
 CCal File B221220C_005
 Ending CCal File B221220C_017
 Blank File B221220C_007

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.18	4.20	22		12/21/2022 00:19
13C5 PFPeA	N/A	N/A	5.04	5.06	24		12/21/2022 00:19
13C3 PFBS	N/A	N/A	6.01	6.05	23		12/21/2022 00:19
13C2 4:2FTS	N/A	N/A	5.46	5.50	74		12/21/2022 00:19
13C5 PFHxA	N/A	N/A	5.74	5.78	20		12/21/2022 00:19
13C4 PFHpA	N/A	N/A	6.42	6.45	19		12/21/2022 00:19
13C3 PFHxS	N/A	N/A	7.52	7.58	24		12/21/2022 00:19
13C2 6:2FTS	N/A	N/A	6.75	6.77	10		12/21/2022 00:19
13C8 PFOA	N/A	N/A	7.09	7.13	32		12/21/2022 00:19
13C9 PFNA	N/A	N/A	7.76	7.78	26		12/21/2022 00:19
13C8 PFOS	N/A	N/A	8.94	8.98	11		12/21/2022 00:19
13C2 8:2FTS	N/A	N/A	8.05	8.07	10		12/21/2022 00:19
13C6 PFDA	N/A	N/A	8.44	8.46	13		12/21/2022 00:19
d3-MeFOSAA	N/A	N/A	8.29	8.31	17		12/21/2022 00:19
13C8 PFOSA	N/A	N/A	10.58	10.62	13		12/21/2022 00:19
d5-EtFOSAA	N/A	N/A	8.59	8.61	13		12/21/2022 00:19
13C7 PFUdA	N/A	N/A	9.12	9.16	27		12/21/2022 00:19
13C2 PFDaA	N/A	N/A	9.79	9.85	12		12/21/2022 00:19
13C2 PFTeDA	N/A	N/A	11.17	11.21	12		12/21/2022 00:19
13C3 HFPO-DA	N/A	N/A	6.02	6.03	18		12/21/2022 00:19
d7-N-MeFOSE	N/A	N/A	12.51	12.54	49		12/21/2022 00:19
d9-N-EtFOSE	N/A	N/A	12.97	13.00	17		12/21/2022 00:19
d3-N-MeFOSA	N/A	N/A	12.71	12.73	46		12/21/2022 00:19
d5-N-EtFOSA	N/A	N/A	13.13	13.15	55		12/21/2022 00:19

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB-2-24-0
 Lab Sample ID 10635405002
 Lab File ID B221220C_012
 Matrix Solid
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 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.08g
 Ical ID 221219A02
 CCal File B221220C_005
 Ending CCal File B221220C_017
 Blank File B221220C_007

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.19	4.20	85	J	12/21/2022 00:19
PFPeA	N/A	N/A	5.05	5.06	ND		12/21/2022 00:19
HFPO-DA	0.68	0.34	6.03	6.04	ND		12/21/2022 00:19
PFBS	0.44	0.44	6.02	6.03	ND		12/21/2022 00:19
PFHxA	0.11	0.07	5.75	5.76	12	J	12/21/2022 00:19
4:2 FTS	0.00	0.81	0.00	5.50	ND		12/21/2022 00:19
PFPeS	0.51	0.39	6.80	6.83	ND		12/21/2022 00:19
PFHpA	0.28	0.32	6.43	6.46	ND		12/21/2022 00:19
DONA	0.00	0.63	0.00	6.70	ND		12/21/2022 00:19
PFHxS	0.39	0.37	7.53	7.58	70		12/21/2022 00:19
PFOA	0.37	0.39	7.10	7.11	13	J	12/21/2022 00:19
6:2 FTS	0.00	0.75	0.00	6.76	ND		12/21/2022 00:19
PFHpS	0.46	0.37	8.25	8.27	25	J	12/21/2022 00:19
PFNA	0.15	0.17	7.77	7.79	ND		12/21/2022 00:19
PFOSAm	N/A	N/A	10.58	10.71	ND		12/21/2022 00:19
PFOS	0.42	0.45	8.95	9.11	66		12/21/2022 00:19
MeFOSA	0.00	0.66	0.00	12.78	ND		12/21/2022 00:19
PFDA	0.27	0.18	8.44	8.53	ND		12/21/2022 00:19
EtFOSAm	0.00	0.51	13.22	13.20	ND		12/21/2022 00:19
8:2 FTS	0.00	0.86	0.00	8.13	ND		12/21/2022 00:19
9-CI-PF3ON	0.00	0.07	0.00	9.49	ND		12/21/2022 00:19
PFNS	0.44	0.41	9.64	9.68	ND		12/21/2022 00:19
PFUnDA	0.16	0.13	9.12	9.17	ND		12/21/2022 00:19
NMeFOSAA	0.00	0.84	0.00	8.32	ND		12/21/2022 00:19
NEtFOSAA	0.00	0.59	0.00	8.62	ND		12/21/2022 00:19
PFDS	0.47	0.33	10.31	10.37	ND		12/21/2022 00:19
PFDOA	0.16	0.17	9.79	9.86	ND		12/21/2022 00:19
MeFOSE	N/A	N/A	12.89	12.59	ND		12/21/2022 00:19
EtFOSE	0.00	0.00	13.04	13.04	ND		12/21/2022 00:19
11-CI-PF3OUdS	0.00	0.02	0.00	10.86	ND		12/21/2022 00:19
PFTTrDA	0.18	0.18	10.50	10.54	ND		12/21/2022 00:19
PFDoS	0.59	0.49	11.61	11.64	ND		12/21/2022 00:19
PFTDA	0.20	0.26	11.17	11.21	ND		12/21/2022 00:19

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB3-24-0
 Lab Sample ID 10635405003
 Lab File ID B221220C_013
 Matrix Solid
 Collected 11/28/2022 13:30
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.16g
 Ical ID 221219A02
 CCal File B221220C_005
 Ending CCal File B221220C_017
 Blank File B221220C_007

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	0.17	0.097	0.027	0.027	1	375-22-4		12/21/2022 00:39
PFPeA	ND	0.097	0.028	0.028	1	2706-90-3		12/21/2022 00:39
HFPO-DA	ND	0.097	0.027	0.027	1	13252-13-6		12/21/2022 00:39
PFBS	ND	0.086	0.026	0.026	1	375-73-5		12/21/2022 00:39
PFHxA	ND	0.097	0.027	0.027	1	307-24-4		12/21/2022 00:39
4:2 FTS	ND	0.091	0.022	0.022	1	757124-72-4		12/21/2022 00:39
PFPeS	ND	0.091	0.023	0.023	1	2706-91-4		12/21/2022 00:39
PFHpA	ND	0.097	0.034	0.034	1	375-85-9		12/21/2022 00:39
DONA	ND	0.092	0.035	0.035	1	919005-14-4		12/21/2022 00:39
PFHxS	ND	0.088	0.021	0.021	1	355-46-4		12/21/2022 00:39
PFOA	ND	0.097	0.030	0.030	1	335-67-1		12/21/2022 00:39
6:2 FTS	ND	0.092	0.040	0.040	1	27619-97-2		12/21/2022 00:39
PFHpS	ND	0.092	0.027	0.027	1	375-92-8		12/21/2022 00:39
PFNA	ND	0.097	0.030	0.030	1	375-95-1		12/21/2022 00:39
PFOSAm	ND	0.097	0.029	0.029	1	754-91-6		12/21/2022 00:39
PFOS	0.029 J	0.090	0.029	0.029	1	1763-23-1		12/21/2022 00:39
MeFOSA	ND	0.097	0.026	0.026	1	31506-32-8		12/21/2022 00:39
PFDA	ND	0.097	0.022	0.022	1	335-76-2		12/21/2022 00:39
EtFOSAm	ND	0.097	0.025	0.025	1	4151-50-2		12/21/2022 00:39
8:2 FTS	ND	0.093	0.043	0.043	1	39108-34-4		12/21/2022 00:39
9-CI-PF3ON	ND	0.090	0.024	0.024	1	756426-58-1		12/21/2022 00:39
PFNS	ND	0.093	0.034	0.034	1	68259-12-1		12/21/2022 00:39
PFUnDA	ND	0.097	0.029	0.029	1	2058-94-8		12/21/2022 00:39
NMeFOSAA	ND	0.097	0.027	0.027	1	2355-31-9		12/21/2022 00:39
NEtFOSAA	ND	0.097	0.039	0.039	1	2991-50-6		12/21/2022 00:39
PFDS	ND	0.094	0.027	0.027	1	335-77-3		12/21/2022 00:39
PFDOA	ND	0.097	0.032	0.032	1	307-55-1		12/21/2022 00:39
MeFOSE	ND	0.097	0.029	0.029	1	24448-09-7		12/21/2022 00:39
EtFOSE	ND	0.097	0.031	0.031	1	1691-99-2		12/21/2022 00:39
11-CI-PF3OUdS	ND	0.091	0.025	0.025	1	763051-92-9		12/21/2022 00:39
PFTTrDA	ND	0.097	0.031	0.031	1	72629-94-8		12/21/2022 00:39
PFDoS	ND	0.094	0.025	0.025	1	79780-39-5		12/21/2022 00:39
PFTDA	ND	0.097	0.033	0.033	1	376-06-7		12/21/2022 00:39

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB3-24-0
 Lab Sample ID 10635405003
 Lab File ID B221220C_013
 Matrix Solid
 Collected 11/28/2022 13:30
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.16g
 Ical ID 221219A02
 CCal File B221220C_005
 Ending CCal File B221220C_017
 Blank File B221220C_007

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.97	0.85	88	25-150		12/21/2022 00:39
13C5 PFPeA	0.97	0.84	86	25-150		12/21/2022 00:39
13C3 PFBS	0.90	0.79	87	25-150		12/21/2022 00:39
13C2 4:2FTS	0.91	0.94	104	25-150		12/21/2022 00:39
13C5 PFHxA	0.97	0.81	84	25-150		12/21/2022 00:39
13C4 PFHpA	0.97	0.84	87	25-150		12/21/2022 00:39
13C3 PFHxS	0.92	0.76	83	25-150		12/21/2022 00:39
13C2 6:2FTS	0.92	0.82	89	25-150		12/21/2022 00:39
13C8 PFOA	0.97	0.81	83	25-150		12/21/2022 00:39
13C9 PFNA	0.97	0.74	76	25-150		12/21/2022 00:39
13C8 PFOS	0.93	0.81	87	25-150		12/21/2022 00:39
13C2 8:2FTS	0.93	1.0	111	25-150		12/21/2022 00:39
13C6 PFDA	0.97	0.81	83	25-150		12/21/2022 00:39
d3-MeFOSAA	0.97	0.90	92	25-150		12/21/2022 00:39
13C8 PFOSA	0.97	0.87	90	25-150		12/21/2022 00:39
d5-EtFOSAA	0.97	0.97	100	25-150		12/21/2022 00:39
13C7 PFUdA	0.97	0.93	96	25-150		12/21/2022 00:39
13C2 PFDoA	0.97	0.94	97	25-150		12/21/2022 00:39
13C2 PFTeDA	0.97	1.1	110	25-150		12/21/2022 00:39
13C3 HFPO-DA	0.97	0.78	80	25-150		12/21/2022 00:39
d7-N-MeFOSE	0.97	0.87	90	10-150		12/21/2022 00:39
d9-N-EtFOSE	0.97	0.89	92	10-150		12/21/2022 00:39
d3-N-MeFOSA	0.97	0.84	87	10-150		12/21/2022 00:39
d5-N-EtFOSA	0.97	0.81	84	10-150		12/21/2022 00:39

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 CCal File B221220C_005
 Ending CCal File B221220C_017
 Blank File B221220C_007

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.23	4.20	21		12/21/2022 00:39
13C5 PFPeA	N/A	N/A	5.12	5.06	25		12/21/2022 00:39
13C3 PFBS	N/A	N/A	6.06	6.05	22		12/21/2022 00:39
13C2 4:2FTS	N/A	N/A	5.52	5.50	47		12/21/2022 00:39
13C5 PFHxA	N/A	N/A	5.80	5.78	18		12/21/2022 00:39
13C4 PFHpA	N/A	N/A	6.47	6.45	16		12/21/2022 00:39
13C3 PFHxS	N/A	N/A	7.55	7.58	23		12/21/2022 00:39
13C2 6:2FTS	N/A	N/A	6.78	6.77	10		12/21/2022 00:39
13C8 PFOA	N/A	N/A	7.12	7.13	22		12/21/2022 00:39
13C9 PFNA	N/A	N/A	7.78	7.78	17		12/21/2022 00:39
13C8 PFOS	N/A	N/A	8.96	8.98	15		12/21/2022 00:39
13C2 8:2FTS	N/A	N/A	8.07	8.07	12		12/21/2022 00:39
13C6 PFDA	N/A	N/A	8.46	8.46	14		12/21/2022 00:39
d3-MeFOSAA	N/A	N/A	8.31	8.31	11		12/21/2022 00:39
13C8 PFOSA	N/A	N/A	10.59	10.62	11		12/21/2022 00:39
d5-EtFOSAA	N/A	N/A	8.60	8.61	12		12/21/2022 00:39
13C7 PFUdA	N/A	N/A	9.14	9.16	20		12/21/2022 00:39
13C2 PFDoA	N/A	N/A	9.82	9.85	83		12/21/2022 00:39
13C2 PFTeDA	N/A	N/A	11.17	11.21	16		12/21/2022 00:39
13C3 HFPO-DA	N/A	N/A	6.07	6.03	18		12/21/2022 00:39
d7-N-MeFOSE	N/A	N/A	12.51	12.54	46		12/21/2022 00:39
d9-N-EtFOSE	N/A	N/A	12.98	13.00	17		12/21/2022 00:39
d3-N-MeFOSA	N/A	N/A	12.71	12.73	62		12/21/2022 00:39
d5-N-EtFOSA	N/A	N/A	13.13	13.15	74		12/21/2022 00:39

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB3-24-0
 Lab Sample ID 10635405003
 Lab File ID B221220C_013
 Matrix Solid
 Collected 11/28/2022 13:30
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.16g
 Ical ID 221219A02
 CCal File B221220C_005
 Ending CCal File B221220C_017
 Blank File B221220C_007

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.24	4.20	17		12/21/2022 00:39
PFPeA	N/A	N/A	5.13	5.06	ND		12/21/2022 00:39
HFPO-DA	5.30	0.34	6.08	6.04	ND		12/21/2022 00:39
PFBS	0.53	0.44	6.07	6.03	ND		12/21/2022 00:39
PFHxA	0.59	0.07	5.81	5.76	ND		12/21/2022 00:39
4:2 FTS	0.00	0.81	0.00	5.50	ND		12/21/2022 00:39
PFPeS	0.57	0.39	6.83	6.83	ND		12/21/2022 00:39
PFHpA	0.19	0.32	6.48	6.46	ND		12/21/2022 00:39
DONA	0.00	0.63	0.00	6.70	ND		12/21/2022 00:39
PFHxS	0.86	0.37	7.57	7.58	ND		12/21/2022 00:39
PFOA	0.40	0.39	7.13	7.11	ND		12/21/2022 00:39
6:2 FTS	0.00	0.75	0.00	6.76	ND		12/21/2022 00:39
PFHpS	0.00	0.37	0.00	8.27	ND		12/21/2022 00:39
PFNA	0.12	0.17	7.79	7.79	ND		12/21/2022 00:39
PFOSAm	N/A	N/A	10.60	10.71	ND		12/21/2022 00:39
PFOS	0.40	0.45	8.97	9.11	11	J	12/21/2022 00:39
MeFOSA	0.00	0.66	0.00	12.78	ND		12/21/2022 00:39
PFDA	0.00	0.18	8.47	8.53	ND		12/21/2022 00:39
EtFOSAm	0.00	0.51	0.00	13.20	ND		12/21/2022 00:39
8:2 FTS	0.00	0.86	0.00	8.13	ND		12/21/2022 00:39
9-Cl-PF3ON	0.00	0.07	0.00	9.49	ND		12/21/2022 00:39
PFNS	0.00	0.41	0.00	9.68	ND		12/21/2022 00:39
PFUnDA	0.11	0.13	9.15	9.17	ND		12/21/2022 00:39
NMeFOSAA	0.00	0.84	0.00	8.32	ND		12/21/2022 00:39
NEtFOSAA	0.00	0.59	0.00	8.62	ND		12/21/2022 00:39
PFDS	0.00	0.33	0.00	10.37	ND		12/21/2022 00:39
PFDOA	0.19	0.17	9.82	9.86	ND		12/21/2022 00:39
MeFOSE	N/A	N/A	0.00	12.59	ND		12/21/2022 00:39
EtFOSE	0.00	0.00	13.02	13.04	ND		12/21/2022 00:39
11-Cl-PF3OUdS	0.00	0.02	0.00	10.86	ND		12/21/2022 00:39
PFTTrDA	0.16	0.18	10.50	10.54	ND		12/21/2022 00:39
PFDoS	0.00	0.49	0.00	11.64	ND		12/21/2022 00:39
PFTDA	0.23	0.26	11.18	11.21	ND		12/21/2022 00:39

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB4-24-0
 Lab Sample ID 10635405004
 Lab File ID B221220C_014
 Matrix Solid
 Collected 11/28/2022 13:45
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.15g
 Ical ID 221219A02
 CCal File B221220C_005
 Ending CCal File B221220C_017
 Blank File B221220C_007

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	0.29	0.097	0.027	0.027	1	375-22-4		12/21/2022 00:59
PFPeA	ND	0.097	0.028	0.028	1	2706-90-3		12/21/2022 00:59
HFPO-DA	ND	0.097	0.027	0.027	1	13252-13-6		12/21/2022 00:59
PFBS	ND	0.086	0.026	0.026	1	375-73-5		12/21/2022 00:59
PFHxA	ND	0.097	0.027	0.027	1	307-24-4		12/21/2022 00:59
4:2 FTS	ND	0.091	0.022	0.022	1	757124-72-4		12/21/2022 00:59
PFPeS	ND	0.091	0.023	0.023	1	2706-91-4		12/21/2022 00:59
PFHpA	ND	0.097	0.034	0.034	1	375-85-9		12/21/2022 00:59
DONA	ND	0.092	0.035	0.035	1	919005-14-4		12/21/2022 00:59
PFHxS	ND	0.088	0.021	0.021	1	355-46-4		12/21/2022 00:59
PFOA	ND	0.097	0.030	0.030	1	335-67-1		12/21/2022 00:59
6:2 FTS	ND	0.092	0.040	0.040	1	27619-97-2		12/21/2022 00:59
PFHpS	ND	0.092	0.027	0.027	1	375-92-8		12/21/2022 00:59
PFNA	ND	0.097	0.030	0.030	1	375-95-1		12/21/2022 00:59
PFOSAm	ND	0.097	0.029	0.029	1	754-91-6		12/21/2022 00:59
PFOS	ND	0.090	0.029	0.029	1	1763-23-1		12/21/2022 00:59
MeFOSA	ND	0.097	0.026	0.026	1	31506-32-8		12/21/2022 00:59
PFDA	ND	0.097	0.022	0.022	1	335-76-2		12/21/2022 00:59
EtFOSAm	ND	0.097	0.025	0.025	1	4151-50-2		12/21/2022 00:59
8:2 FTS	ND	0.093	0.043	0.043	1	39108-34-4		12/21/2022 00:59
9-CI-PF3ON	ND	0.090	0.024	0.024	1	756426-58-1		12/21/2022 00:59
PFNS	ND	0.093	0.034	0.034	1	68259-12-1		12/21/2022 00:59
PFUnDA	ND	0.097	0.029	0.029	1	2058-94-8		12/21/2022 00:59
NMeFOSAA	ND	0.097	0.027	0.027	1	2355-31-9		12/21/2022 00:59
NEtFOSAA	ND	0.097	0.039	0.039	1	2991-50-6		12/21/2022 00:59
PFDS	ND	0.094	0.027	0.027	1	335-77-3		12/21/2022 00:59
PFDOA	ND	0.097	0.032	0.032	1	307-55-1		12/21/2022 00:59
MeFOSE	ND	0.097	0.029	0.029	1	24448-09-7		12/21/2022 00:59
EtFOSE	ND	0.097	0.031	0.031	1	1691-99-2		12/21/2022 00:59
11-CI-PF3OUdS	ND	0.091	0.025	0.025	1	763051-92-9		12/21/2022 00:59
PFTTrDA	ND	0.097	0.031	0.031	1	72629-94-8		12/21/2022 00:59
PFDoS	ND	0.094	0.025	0.025	1	79780-39-5		12/21/2022 00:59
PFTDA	ND	0.097	0.033	0.033	1	376-06-7		12/21/2022 00:59

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB4-24-0
 Lab Sample ID 10635405004
 Lab File ID B221220C_014
 Matrix Solid
 Collected 11/28/2022 13:45
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.15g
 Ical ID 221219A02
 CCal File B221220C_005
 Ending CCal File B221220C_017
 Blank File B221220C_007

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.97	0.79	82	25-150		12/21/2022 00:59
13C5 PFPeA	0.97	0.78	81	25-150		12/21/2022 00:59
13C3 PFBS	0.90	0.75	84	25-150		12/21/2022 00:59
13C2 4:2FTS	0.91	0.86	95	25-150		12/21/2022 00:59
13C5 PFHxA	0.97	0.77	79	25-150		12/21/2022 00:59
13C4 PFHpA	0.97	0.78	80	25-150		12/21/2022 00:59
13C3 PFHxS	0.92	0.74	81	25-150		12/21/2022 00:59
13C2 6:2FTS	0.92	0.79	86	25-150		12/21/2022 00:59
13C8 PFOA	0.97	0.74	76	25-150		12/21/2022 00:59
13C9 PFNA	0.97	0.73	76	25-150		12/21/2022 00:59
13C8 PFOS	0.93	0.84	91	25-150		12/21/2022 00:59
13C2 8:2FTS	0.93	1.0	111	25-150		12/21/2022 00:59
13C6 PFDA	0.97	0.92	95	25-150		12/21/2022 00:59
d3-MeFOSAA	0.97	0.91	94	25-150		12/21/2022 00:59
13C8 PFOSA	0.97	0.79	82	25-150		12/21/2022 00:59
d5-EtFOSAA	0.97	0.89	91	25-150		12/21/2022 00:59
13C7 PFUdA	0.97	0.91	93	25-150		12/21/2022 00:59
13C2 PFDoA	0.97	0.93	96	25-150		12/21/2022 00:59
13C2 PFTeDA	0.97	0.98	101	25-150		12/21/2022 00:59
13C3 HFPO-DA	0.97	0.77	79	25-150		12/21/2022 00:59
d7-N-MeFOSE	0.97	0.79	81	10-150		12/21/2022 00:59
d9-N-EtFOSE	0.97	0.87	90	10-150		12/21/2022 00:59
d3-N-MeFOSA	0.97	0.72	74	10-150		12/21/2022 00:59
d5-N-EtFOSA	0.97	0.73	75	10-150		12/21/2022 00:59

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB4-24-0
 Lab Sample ID 10635405004
 Lab File ID B221220C_014
 Matrix Solid
 Collected 11/28/2022 13:45
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.15g
 Ical ID 221219A02
 CCal File B221220C_005
 Ending CCal File B221220C_017
 Blank File B221220C_007

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.18	4.20	21		12/21/2022 00:59
13C5 PFPeA	N/A	N/A	5.05	5.06	27		12/21/2022 00:59
13C3 PFBS	N/A	N/A	6.01	6.05	17		12/21/2022 00:59
13C2 4:2FTS	N/A	N/A	5.46	5.50	71		12/21/2022 00:59
13C5 PFHxA	N/A	N/A	5.74	5.78	18		12/21/2022 00:59
13C4 PFHpA	N/A	N/A	6.42	6.45	17		12/21/2022 00:59
13C3 PFHxS	N/A	N/A	7.53	7.58	26		12/21/2022 00:59
13C2 6:2FTS	N/A	N/A	6.75	6.77	12		12/21/2022 00:59
13C8 PFOA	N/A	N/A	7.09	7.13	22		12/21/2022 00:59
13C9 PFNA	N/A	N/A	7.76	7.78	21		12/21/2022 00:59
13C8 PFOS	N/A	N/A	8.95	8.98	17		12/21/2022 00:59
13C2 8:2FTS	N/A	N/A	8.05	8.07	13		12/21/2022 00:59
13C6 PFDA	N/A	N/A	8.44	8.46	13		12/21/2022 00:59
d3-MeFOSAA	N/A	N/A	8.30	8.31	15		12/21/2022 00:59
13C8 PFOSA	N/A	N/A	10.59	10.62	10		12/21/2022 00:59
d5-EtFOSAA	N/A	N/A	8.59	8.61	17		12/21/2022 00:59
13C7 PFUdA	N/A	N/A	9.13	9.16	22		12/21/2022 00:59
13C2 PFDoA	N/A	N/A	9.82	9.85	10		12/21/2022 00:59
13C2 PFTeDA	N/A	N/A	11.17	11.21	11		12/21/2022 00:59
13C3 HFPO-DA	N/A	N/A	6.02	6.03	19		12/21/2022 00:59
d7-N-MeFOSE	N/A	N/A	12.52	12.54	46		12/21/2022 00:59
d9-N-EtFOSE	N/A	N/A	12.98	13.00	26		12/21/2022 00:59
d3-N-MeFOSA	N/A	N/A	12.72	12.73	70		12/21/2022 00:59
d5-N-EtFOSA	N/A	N/A	13.13	13.15	84		12/21/2022 00:59

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB4-24-0
 Lab Sample ID 10635405004
 Lab File ID B221220C_014
 Matrix Solid
 Collected 11/28/2022 13:45
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.15g
 Ical ID 221219A02
 CCal File B221220C_005
 Ending CCal File B221220C_017
 Blank File B221220C_007

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.19	4.20	23		12/21/2022 00:59
PFPeA	N/A	N/A	5.05	5.06	ND		12/21/2022 00:59
HFPO-DA	2.80	0.34	6.03	6.04	ND		12/21/2022 00:59
PFBS	0.59	0.44	6.01	6.03	ND		12/21/2022 00:59
PFHxA	0.39	0.07	5.75	5.76	ND		12/21/2022 00:59
4:2 FTS	0.00	0.81	0.00	5.50	ND		12/21/2022 00:59
PFPeS	0.00	0.39	0.00	6.83	ND		12/21/2022 00:59
PFHpA	0.25	0.32	6.43	6.46	ND		12/21/2022 00:59
DONA	0.00	0.63	0.00	6.70	ND		12/21/2022 00:59
PFHxS	0.00	0.37	0.00	7.58	ND		12/21/2022 00:59
PFOA	0.32	0.39	7.10	7.11	ND		12/21/2022 00:59
6:2 FTS	0.00	0.75	0.00	6.76	ND		12/21/2022 00:59
PFHpS	0.00	0.37	0.00	8.27	ND		12/21/2022 00:59
PFNA	0.21	0.17	7.77	7.79	ND		12/21/2022 00:59
PFOSAm	N/A	N/A	10.61	10.71	ND		12/21/2022 00:59
PFOS	0.46	0.45	8.96	9.11	ND		12/21/2022 00:59
MeFOSA	0.00	0.66	0.00	12.78	ND		12/21/2022 00:59
PFDA	0.00	0.18	0.00	8.53	ND		12/21/2022 00:59
EtFOSAm	0.00	0.51	0.00	13.20	ND		12/21/2022 00:59
8:2 FTS	0.00	0.86	0.00	8.13	ND		12/21/2022 00:59
9-Cl-PF3ON	0.00	0.07	0.00	9.49	ND		12/21/2022 00:59
PFNS	0.00	0.41	0.00	9.68	ND		12/21/2022 00:59
PFUnDA	0.15	0.13	9.13	9.17	ND		12/21/2022 00:59
NMeFOSAA	0.00	0.84	0.00	8.32	ND		12/21/2022 00:59
NEtFOSAA	0.00	0.59	0.00	8.62	ND		12/21/2022 00:59
PFDS	0.00	0.33	0.00	10.37	ND		12/21/2022 00:59
PFDOA	0.00	0.17	0.00	9.86	ND		12/21/2022 00:59
MeFOSE	N/A	N/A	0.00	12.59	ND		12/21/2022 00:59
EtFOSE	0.00	0.00	0.00	13.04	ND		12/21/2022 00:59
11-Cl-PF3OUdS	0.00	0.02	0.00	10.86	ND		12/21/2022 00:59
PFTTrDA	0.00	0.18	0.00	10.54	ND		12/21/2022 00:59
PFDoS	0.00	0.49	0.00	11.64	ND		12/21/2022 00:59
PFTDA	0.21	0.26	11.18	11.21	ND		12/21/2022 00:59

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB5-24-0
 Lab Sample ID 10635405005
 Lab File ID B221220C_015
 Matrix Solid
 Collected 11/28/2022 14:15
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.22g
 Ical ID 221219A02
 CCal File B221220C_005
 Ending CCal File B221220C_017
 Blank File B221220C_007

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	0.047 J	0.096	0.027	0.027	1	375-22-4		12/21/2022 01:19
PFPeA	ND	0.096	0.027	0.027	1	2706-90-3		12/21/2022 01:19
HFPO-DA	ND	0.096	0.027	0.027	1	13252-13-6		12/21/2022 01:19
PFBS	ND	0.085	0.025	0.025	1	375-73-5		12/21/2022 01:19
PFHxA	0.027 J	0.096	0.026	0.026	1	307-24-4		12/21/2022 01:19
4:2 FTS	ND	0.090	0.022	0.022	1	757124-72-4		12/21/2022 01:19
PFPeS	ND	0.090	0.023	0.023	1	2706-91-4		12/21/2022 01:19
PFHpA	ND	0.096	0.033	0.033	1	375-85-9		12/21/2022 01:19
DONA	ND	0.091	0.035	0.035	1	919005-14-4		12/21/2022 01:19
PFHxS	0.15	0.087	0.021	0.021	1	355-46-4		12/21/2022 01:19
PFOA	0.077 J	0.096	0.030	0.030	1	335-67-1		12/21/2022 01:19
6:2 FTS	ND	0.091	0.040	0.040	1	27619-97-2		12/21/2022 01:19
PFHpS	ND	0.091	0.027	0.027	1	375-92-8		12/21/2022 01:19
PFNA	ND	0.096	0.030	0.030	1	375-95-1		12/21/2022 01:19
PFOSAm	ND	0.096	0.028	0.028	1	754-91-6		12/21/2022 01:19
PFOS	2.2	0.089	0.028	0.028	1	1763-23-1		12/21/2022 01:19
MeFOSA	ND	0.096	0.026	0.026	1	31506-32-8		12/21/2022 01:19
PFDA	ND	0.096	0.022	0.022	1	335-76-2		12/21/2022 01:19
EtFOSAm	ND	0.096	0.025	0.025	1	4151-50-2		12/21/2022 01:19
8:2 FTS	ND	0.092	0.042	0.042	1	39108-34-4		12/21/2022 01:19
9-CI-PF3ON	ND	0.089	0.024	0.024	1	756426-58-1		12/21/2022 01:19
PFNS	ND	0.092	0.033	0.033	1	68259-12-1		12/21/2022 01:19
PFUnDA	ND	0.096	0.029	0.029	1	2058-94-8		12/21/2022 01:19
NMeFOSAA	ND	0.096	0.027	0.027	1	2355-31-9		12/21/2022 01:19
NEtFOSAA	ND	0.096	0.039	0.039	1	2991-50-6		12/21/2022 01:19
PFDS	ND	0.092	0.027	0.027	1	335-77-3		12/21/2022 01:19
PFDOA	ND	0.096	0.032	0.032	1	307-55-1		12/21/2022 01:19
MeFOSE	ND	0.096	0.029	0.029	1	24448-09-7		12/21/2022 01:19
EtFOSE	ND	0.096	0.031	0.031	1	1691-99-2		12/21/2022 01:19
11-CI-PF3OUdS	ND	0.090	0.024	0.024	1	763051-92-9		12/21/2022 01:19
PFTTrDA	ND	0.096	0.031	0.031	1	72629-94-8		12/21/2022 01:19
PFDoS	ND	0.093	0.025	0.025	1	79780-39-5		12/21/2022 01:19
PFTDA	ND	0.096	0.033	0.033	1	376-06-7		12/21/2022 01:19

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB5-24-0
 Lab Sample ID 10635405005
 Lab File ID B221220C_015
 Matrix Solid
 Collected 11/28/2022 14:15
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.22g
 Ical ID 221219A02
 CCal File B221220C_005
 Ending CCal File B221220C_017
 Blank File B221220C_007

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.96	0.68	71	25-150		12/21/2022 01:19
13C5 PFPeA	0.96	0.69	72	25-150		12/21/2022 01:19
13C3 PFBS	0.89	0.70	79	25-150		12/21/2022 01:19
13C2 4:2FTS	0.90	0.80	89	25-150		12/21/2022 01:19
13C5 PFHxA	0.96	0.68	71	25-150		12/21/2022 01:19
13C4 PFHpA	0.96	0.72	75	25-150		12/21/2022 01:19
13C3 PFHxS	0.91	0.72	80	25-150		12/21/2022 01:19
13C2 6:2FTS	0.91	0.77	85	25-150		12/21/2022 01:19
13C8 PFOA	0.96	0.67	70	25-150		12/21/2022 01:19
13C9 PFNA	0.96	0.72	75	25-150		12/21/2022 01:19
13C8 PFOS	0.92	0.74	81	25-150		12/21/2022 01:19
13C2 8:2FTS	0.92	0.81	88	25-150		12/21/2022 01:19
13C6 PFDA	0.96	0.80	83	25-150		12/21/2022 01:19
d3-MeFOSAA	0.96	0.85	88	25-150		12/21/2022 01:19
13C8 PFOSA	0.96	0.71	74	25-150		12/21/2022 01:19
d5-EtFOSAA	0.96	0.85	89	25-150		12/21/2022 01:19
13C7 PFUdA	0.96	0.83	87	25-150		12/21/2022 01:19
13C2 PFDoA	0.96	0.90	94	25-150		12/21/2022 01:19
13C2 PFTeDA	0.96	0.94	98	25-150		12/21/2022 01:19
13C3 HFPO-DA	0.96	0.63	65	25-150		12/21/2022 01:19
d7-N-MeFOSE	0.96	0.72	75	10-150		12/21/2022 01:19
d9-N-EtFOSE	0.96	0.78	81	10-150		12/21/2022 01:19
d3-N-MeFOSA	0.96	0.74	77	10-150		12/21/2022 01:19
d5-N-EtFOSA	0.96	0.72	75	10-150		12/21/2022 01:19

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 Lab Sample ID 10635405005
 Lab File ID B221220C_015
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 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.22g
 Ical ID 221219A02
 CCal File B221220C_005
 Ending CCal File B221220C_017
 Blank File B221220C_007

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.18	4.20	19		12/21/2022 01:19
13C5 PFPeA	N/A	N/A	5.05	5.06	26		12/21/2022 01:19
13C3 PFBS	N/A	N/A	6.01	6.05	26		12/21/2022 01:19
13C2 4:2FTS	N/A	N/A	5.46	5.50	62		12/21/2022 01:19
13C5 PFHxA	N/A	N/A	5.75	5.78	18		12/21/2022 01:19
13C4 PFHpA	N/A	N/A	6.43	6.45	22		12/21/2022 01:19
13C3 PFHxS	N/A	N/A	7.53	7.58	22		12/21/2022 01:19
13C2 6:2FTS	N/A	N/A	6.75	6.77	11		12/21/2022 01:19
13C8 PFOA	N/A	N/A	7.10	7.13	20		12/21/2022 01:19
13C9 PFNA	N/A	N/A	7.76	7.78	19		12/21/2022 01:19
13C8 PFOS	N/A	N/A	8.95	8.98	11		12/21/2022 01:19
13C2 8:2FTS	N/A	N/A	8.05	8.07	11		12/21/2022 01:19
13C6 PFDA	N/A	N/A	8.44	8.46	15		12/21/2022 01:19
d3-MeFOSAA	N/A	N/A	8.30	8.31	13		12/21/2022 01:19
13C8 PFOSA	N/A	N/A	10.59	10.62	12		12/21/2022 01:19
d5-EtFOSAA	N/A	N/A	8.60	8.61	11		12/21/2022 01:19
13C7 PFUdA	N/A	N/A	9.13	9.16	24		12/21/2022 01:19
13C2 PFDoA	N/A	N/A	9.83	9.85	10		12/21/2022 01:19
13C2 PFTeDA	N/A	N/A	11.17	11.21	12		12/21/2022 01:19
13C3 HFPO-DA	N/A	N/A	6.02	6.03	16		12/21/2022 01:19
d7-N-MeFOSE	N/A	N/A	12.52	12.54	47		12/21/2022 01:19
d9-N-EtFOSE	N/A	N/A	12.98	13.00	28		12/21/2022 01:19
d3-N-MeFOSA	N/A	N/A	12.72	12.73	61		12/21/2022 01:19
d5-N-EtFOSA	N/A	N/A	13.13	13.15	69		12/21/2022 01:19

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Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.19	4.20	10	J	12/21/2022 01:19
PFPeA	N/A	N/A	5.05	5.06	ND		12/21/2022 01:19
HFPO-DA	0.21	0.34	6.04	6.04	ND		12/21/2022 01:19
PFBS	0.29	0.44	6.02	6.03	ND		12/21/2022 01:19
PFHxA	0.07	0.07	5.75	5.76	88	J	12/21/2022 01:19
4:2 FTS	0.00	0.81	0.00	5.50	ND		12/21/2022 01:19
PFPeS	0.41	0.39	6.80	6.83	ND		12/21/2022 01:19
PFHpA	0.41	0.32	6.43	6.46	ND		12/21/2022 01:19
DONA	0.00	0.63	0.00	6.70	ND		12/21/2022 01:19
PFHxS	0.36	0.37	7.53	7.58	80		12/21/2022 01:19
PFOA	0.32	0.39	7.10	7.11	87	J	12/21/2022 01:19
6:2 FTS	0.00	0.75	0.00	6.76	ND		12/21/2022 01:19
PFHpS	0.39	0.37	8.25	8.27	ND		12/21/2022 01:19
PFNA	0.15	0.17	7.77	7.79	ND		12/21/2022 01:19
PFOSAm	N/A	N/A	10.61	10.71	ND		12/21/2022 01:19
PFOS	0.42	0.45	8.96	9.11	91		12/21/2022 01:19
MeFOSA	0.00	0.66	0.00	12.78	ND		12/21/2022 01:19
PFDA	0.12	0.18	8.45	8.53	ND		12/21/2022 01:19
EtFOSAm	0.00	0.51	0.00	13.20	ND		12/21/2022 01:19
8:2 FTS	0.00	0.86	0.00	8.13	ND		12/21/2022 01:19
9-CI-PF3ON	0.00	0.07	0.00	9.49	ND		12/21/2022 01:19
PFNS	0.52	0.41	9.65	9.68	ND		12/21/2022 01:19
PFUnDA	0.12	0.13	9.13	9.17	ND		12/21/2022 01:19
NMeFOSAA	0.00	0.84	0.00	8.32	ND		12/21/2022 01:19
NEtFOSAA	0.00	0.59	0.00	8.62	ND		12/21/2022 01:19
PFDS	0.47	0.33	10.34	10.37	ND		12/21/2022 01:19
PFDOA	0.22	0.17	9.83	9.86	ND		12/21/2022 01:19
MeFOSE	N/A	N/A	0.00	12.59	ND		12/21/2022 01:19
EtFOSE	0.00	0.00	0.00	13.04	ND		12/21/2022 01:19
11-CI-PF3OUdS	0.00	0.02	0.00	10.86	ND		12/21/2022 01:19
PFTTrDA	0.14	0.18	10.52	10.54	ND		12/21/2022 01:19
PFDoS	0.51	0.49	11.60	11.64	ND		12/21/2022 01:19
PFTDA	0.19	0.26	11.18	11.21	ND		12/21/2022 01:19

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 PFAS by Isotope Dilution

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 Lab Sample ID 10635405006
 Lab File ID B221220C_016
 Matrix Solid
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 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.22g
 Ical ID 221219A02
 CCal File B221220C_005
 Ending CCal File B221220C_017
 Blank File B221220C_007

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.096	0.027	0.027	1	375-22-4		12/21/2022 01:39
PFPeA	ND	0.096	0.027	0.027	1	2706-90-3		12/21/2022 01:39
HFPO-DA	ND	0.096	0.027	0.027	1	13252-13-6		12/21/2022 01:39
PFBS	ND	0.085	0.025	0.025	1	375-73-5		12/21/2022 01:39
PFHxA	ND	0.096	0.026	0.026	1	307-24-4		12/21/2022 01:39
4:2 FTS	ND	0.090	0.022	0.022	1	757124-72-4		12/21/2022 01:39
PFPeS	ND	0.090	0.023	0.023	1	2706-91-4		12/21/2022 01:39
PFHpA	ND	0.096	0.033	0.033	1	375-85-9		12/21/2022 01:39
DONA	ND	0.091	0.035	0.035	1	919005-14-4		12/21/2022 01:39
PFHxS	ND	0.087	0.021	0.021	1	355-46-4		12/21/2022 01:39
PFOA	ND	0.096	0.030	0.030	1	335-67-1		12/21/2022 01:39
6:2 FTS	ND	0.091	0.040	0.040	1	27619-97-2		12/21/2022 01:39
PFHpS	ND	0.091	0.027	0.027	1	375-92-8		12/21/2022 01:39
PFNA	ND	0.096	0.030	0.030	1	375-95-1		12/21/2022 01:39
PFOSAm	ND	0.096	0.028	0.028	1	754-91-6		12/21/2022 01:39
PFOS	0.18	0.089	0.028	0.028	1	1763-23-1		12/21/2022 01:39
MeFOSA	ND	0.096	0.026	0.026	1	31506-32-8		12/21/2022 01:39
PFDA	ND	0.096	0.022	0.022	1	335-76-2		12/21/2022 01:39
EtFOSAm	ND	0.096	0.025	0.025	1	4151-50-2		12/21/2022 01:39
8:2 FTS	ND	0.092	0.042	0.042	1	39108-34-4		12/21/2022 01:39
9-CI-PF3ON	ND	0.089	0.024	0.024	1	756426-58-1		12/21/2022 01:39
PFNS	ND	0.092	0.033	0.033	1	68259-12-1		12/21/2022 01:39
PFUnDA	ND	0.096	0.029	0.029	1	2058-94-8		12/21/2022 01:39
NMeFOSAA	ND	0.096	0.027	0.027	1	2355-31-9		12/21/2022 01:39
NEtFOSAA	ND	0.096	0.039	0.039	1	2991-50-6		12/21/2022 01:39
PFDS	ND	0.092	0.027	0.027	1	335-77-3		12/21/2022 01:39
PFDOA	ND	0.096	0.032	0.032	1	307-55-1		12/21/2022 01:39
MeFOSE	ND	0.096	0.029	0.029	1	24448-09-7		12/21/2022 01:39
EtFOSE	ND	0.096	0.031	0.031	1	1691-99-2		12/21/2022 01:39
11-CI-PF3OUdS	ND	0.090	0.024	0.024	1	763051-92-9		12/21/2022 01:39
PFTTrDA	ND	0.096	0.031	0.031	1	72629-94-8		12/21/2022 01:39
PFDoS	ND	0.093	0.025	0.025	1	79780-39-5		12/21/2022 01:39
PFTDA	ND	0.096	0.033	0.033	1	376-06-7		12/21/2022 01:39

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Sample Analysis Summary
 PFAS by Isotope Dilution

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 Lab Sample ID 10635405006
 Lab File ID B221220C_016
 Matrix Solid
 Collected 11/28/2022 16:45
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.22g
 Ical ID 221219A02
 CCal File B221220C_005
 Ending CCal File B221220C_017
 Blank File B221220C_007

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.96	0.89	93	25-150		12/21/2022 01:39
13C5 PFPeA	0.96	0.88	92	25-150		12/21/2022 01:39
13C3 PFBS	0.89	0.77	87	25-150		12/21/2022 01:39
13C2 4:2FTS	0.90	0.87	97	25-150		12/21/2022 01:39
13C5 PFHxA	0.96	0.86	90	25-150		12/21/2022 01:39
13C4 PFHpA	0.96	0.86	89	25-150		12/21/2022 01:39
13C3 PFHxS	0.91	0.80	89	25-150		12/21/2022 01:39
13C2 6:2FTS	0.91	0.87	95	25-150		12/21/2022 01:39
13C8 PFOA	0.96	0.87	91	25-150		12/21/2022 01:39
13C9 PFNA	0.96	0.84	87	25-150		12/21/2022 01:39
13C8 PFOS	0.92	0.87	95	25-150		12/21/2022 01:39
13C2 8:2FTS	0.92	1.1	119	25-150		12/21/2022 01:39
13C6 PFDA	0.96	0.94	98	25-150		12/21/2022 01:39
d3-MeFOSAA	0.96	0.87	91	25-150		12/21/2022 01:39
13C8 PFOSA	0.96	0.91	95	25-150		12/21/2022 01:39
d5-EtFOSAA	0.96	0.96	101	25-150		12/21/2022 01:39
13C7 PFUdA	0.96	0.94	98	25-150		12/21/2022 01:39
13C2 PFDoA	0.96	0.98	103	25-150		12/21/2022 01:39
13C2 PFTeDA	0.96	1.1	115	25-150		12/21/2022 01:39
13C3 HFPO-DA	0.96	0.85	89	25-150		12/21/2022 01:39
d7-N-MeFOSE	0.96	0.97	101	10-150		12/21/2022 01:39
d9-N-EtFOSE	0.96	1.2	120	10-150		12/21/2022 01:39
d3-N-MeFOSA	0.96	0.99	103	10-150		12/21/2022 01:39
d5-N-EtFOSA	0.96	0.87	91	10-150		12/21/2022 01:39

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Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.18	4.20	23		12/21/2022 01:39
13C5 PFPeA	N/A	N/A	5.04	5.06	25		12/21/2022 01:39
13C3 PFBS	N/A	N/A	6.01	6.05	15		12/21/2022 01:39
13C2 4:2FTS	N/A	N/A	5.45	5.50	62		12/21/2022 01:39
13C5 PFHxA	N/A	N/A	5.74	5.78	20		12/21/2022 01:39
13C4 PFHpA	N/A	N/A	6.42	6.45	22		12/21/2022 01:39
13C3 PFHxS	N/A	N/A	7.53	7.58	26		12/21/2022 01:39
13C2 6:2FTS	N/A	N/A	6.75	6.77	79		12/21/2022 01:39
13C8 PFOA	N/A	N/A	7.10	7.13	28		12/21/2022 01:39
13C9 PFNA	N/A	N/A	7.77	7.78	22		12/21/2022 01:39
13C8 PFOS	N/A	N/A	8.96	8.98	13		12/21/2022 01:39
13C2 8:2FTS	N/A	N/A	8.06	8.07	13		12/21/2022 01:39
13C6 PFDA	N/A	N/A	8.45	8.46	12		12/21/2022 01:39
d3-MeFOSAA	N/A	N/A	8.30	8.31	14		12/21/2022 01:39
13C8 PFOSA	N/A	N/A	10.60	10.62	12		12/21/2022 01:39
d5-EtFOSAA	N/A	N/A	8.60	8.61	14		12/21/2022 01:39
13C7 PFUdA	N/A	N/A	9.14	9.16	32		12/21/2022 01:39
13C2 PFDoA	N/A	N/A	9.82	9.85	12		12/21/2022 01:39
13C2 PFTeDA	N/A	N/A	11.18	11.21	10		12/21/2022 01:39
13C3 HFPO-DA	N/A	N/A	6.02	6.03	20		12/21/2022 01:39
d7-N-MeFOSE	N/A	N/A	12.51	12.54	46		12/21/2022 01:39
d9-N-EtFOSE	N/A	N/A	12.97	13.00	25		12/21/2022 01:39
d3-N-MeFOSA	N/A	N/A	12.71	12.73	86		12/21/2022 01:39
d5-N-EtFOSA	N/A	N/A	13.13	13.15	83		12/21/2022 01:39

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Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.19	4.20	ND		12/21/2022 01:39
PFPeA	N/A	N/A	5.05	5.06	ND		12/21/2022 01:39
HFPO-DA	2.00	0.34	6.03	6.04	ND		12/21/2022 01:39
PFBS	0.72	0.44	6.01	6.03	ND		12/21/2022 01:39
PFHxA	0.11	0.07	5.75	5.76	ND		12/21/2022 01:39
4:2 FTS	0.00	0.81	0.00	5.50	ND		12/21/2022 01:39
PFPeS	0.00	0.39	0.00	6.83	ND		12/21/2022 01:39
PFHpA	0.27	0.32	6.43	6.46	ND		12/21/2022 01:39
DONA	0.45	0.63	6.68	6.70	ND		12/21/2022 01:39
PFHxS	0.44	0.37	7.54	7.58	ND		12/21/2022 01:39
PFOA	0.45	0.39	7.10	7.11	ND		12/21/2022 01:39
6:2 FTS	0.00	0.75	0.00	6.76	ND		12/21/2022 01:39
PFHpS	0.00	0.37	0.00	8.27	ND		12/21/2022 01:39
PFNA	0.16	0.17	7.78	7.79	ND		12/21/2022 01:39
PFOSAm	N/A	N/A	10.60	10.71	ND		12/21/2022 01:39
PFOS	0.49	0.45	8.97	9.11	39		12/21/2022 01:39
MeFOSA	0.00	0.66	0.00	12.78	ND		12/21/2022 01:39
PFDA	0.14	0.18	8.46	8.53	ND		12/21/2022 01:39
EtFOSAm	0.00	0.51	0.00	13.20	ND		12/21/2022 01:39
8:2 FTS	0.00	0.86	0.00	8.13	ND		12/21/2022 01:39
9-Cl-PF3ON	0.00	0.07	0.00	9.49	ND		12/21/2022 01:39
PFNS	0.00	0.41	0.00	9.68	ND		12/21/2022 01:39
PFUnDA	0.05	0.13	9.15	9.17	ND		12/21/2022 01:39
NMeFOSAA	0.99	0.84	8.32	8.32	ND		12/21/2022 01:39
NEtFOSAA	0.00	0.59	0.00	8.62	ND		12/21/2022 01:39
PFDS	0.34	0.33	10.34	10.37	ND		12/21/2022 01:39
PFDOA	0.17	0.17	9.83	9.86	ND		12/21/2022 01:39
MeFOSE	N/A	N/A	0.00	12.59	ND		12/21/2022 01:39
EtFOSE	0.00	0.00	13.01	13.04	ND		12/21/2022 01:39
11-Cl-PF3OUdS	0.00	0.02	0.00	10.86	ND		12/21/2022 01:39
PFTTrDA	0.18	0.18	10.51	10.54	ND		12/21/2022 01:39
PFDoS	0.00	0.49	11.60	11.64	ND		12/21/2022 01:39
PFTDA	0.27	0.26	11.19	11.21	ND		12/21/2022 01:39

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB9-24-0
 Lab Sample ID 10635405007
 Lab File ID B221220C_018
 Matrix Solid
 Collected 11/28/2022 17:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.27g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	0.030 J	0.095	0.027	0.027	1	375-22-4		12/21/2022 02:19
PFPeA	ND	0.095	0.027	0.027	1	2706-90-3		12/21/2022 02:19
HFPO-DA	ND	0.095	0.026	0.026	1	13252-13-6		12/21/2022 02:19
PFBS	ND	0.084	0.025	0.025	1	375-73-5		12/21/2022 02:19
PFHxA	ND	0.095	0.026	0.026	1	307-24-4		12/21/2022 02:19
4:2 FTS	ND	0.089	0.022	0.022	1	757124-72-4		12/21/2022 02:19
PFPeS	ND	0.089	0.023	0.023	1	2706-91-4		12/21/2022 02:19
PFHpA	ND	0.095	0.033	0.033	1	375-85-9		12/21/2022 02:19
DONA	ND	0.090	0.034	0.034	1	919005-14-4		12/21/2022 02:19
PFHxS	ND	0.086	0.021	0.021	1	355-46-4		12/21/2022 02:19
PFOA	ND	0.095	0.029	0.029	1	335-67-1		12/21/2022 02:19
6:2 FTS	ND	0.090	0.039	0.039	1	27619-97-2		12/21/2022 02:19
PFHpS	ND	0.090	0.026	0.026	1	375-92-8		12/21/2022 02:19
PFNA	ND	0.095	0.029	0.029	1	375-95-1		12/21/2022 02:19
PFOSAm	ND	0.095	0.028	0.028	1	754-91-6		12/21/2022 02:19
PFOS	0.20	0.088	0.028	0.028	1	1763-23-1		12/21/2022 02:19
MeFOSA	ND	0.095	0.026	0.026	1	31506-32-8		12/21/2022 02:19
PFDA	ND	0.095	0.022	0.022	1	335-76-2		12/21/2022 02:19
EtFOSAm	ND	0.095	0.024	0.024	1	4151-50-2		12/21/2022 02:19
8:2 FTS	ND	0.091	0.042	0.042	1	39108-34-4		12/21/2022 02:19
9-CI-PF3ON	ND	0.088	0.024	0.024	1	756426-58-1		12/21/2022 02:19
PFNS	ND	0.091	0.033	0.033	1	68259-12-1		12/21/2022 02:19
PFUnDA	ND	0.095	0.029	0.029	1	2058-94-8		12/21/2022 02:19
NMeFOSAA	ND	0.095	0.027	0.027	1	2355-31-9		12/21/2022 02:19
NEtFOSAA	ND	0.095	0.038	0.038	1	2991-50-6		12/21/2022 02:19
PFDS	ND	0.092	0.027	0.027	1	335-77-3		12/21/2022 02:19
PFDOA	ND	0.095	0.031	0.031	1	307-55-1		12/21/2022 02:19
MeFOSE	ND	0.095	0.029	0.029	1	24448-09-7		12/21/2022 02:19
EtFOSE	ND	0.095	0.031	0.031	1	1691-99-2		12/21/2022 02:19
11-CI-PF3OUdS	ND	0.089	0.024	0.024	1	763051-92-9		12/21/2022 02:19
PFTTrDA	ND	0.095	0.030	0.030	1	72629-94-8		12/21/2022 02:19
PFDoS	ND	0.092	0.025	0.025	1	79780-39-5		12/21/2022 02:19
PFTDA	ND	0.095	0.033	0.033	1	376-06-7		12/21/2022 02:19

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB9-24-0
 Lab Sample ID 10635405007
 Lab File ID B221220C_018
 Matrix Solid
 Collected 11/28/2022 17:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.27g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.95	0.69	72	25-150		12/21/2022 02:19
13C5 PFPeA	0.95	0.68	71	25-150		12/21/2022 02:19
13C3 PFBS	0.88	0.66	75	25-150		12/21/2022 02:19
13C2 4:2FTS	0.89	0.66	75	25-150		12/21/2022 02:19
13C5 PFHxA	0.95	0.72	76	25-150		12/21/2022 02:19
13C4 PFHpA	0.95	0.66	69	25-150		12/21/2022 02:19
13C3 PFHxS	0.90	0.65	72	25-150		12/21/2022 02:19
13C2 6:2FTS	0.90	0.62	69	25-150		12/21/2022 02:19
13C8 PFOA	0.95	0.70	74	25-150		12/21/2022 02:19
13C9 PFNA	0.95	0.66	69	25-150		12/21/2022 02:19
13C8 PFOS	0.91	0.64	71	25-150		12/21/2022 02:19
13C2 8:2FTS	0.91	0.72	79	25-150		12/21/2022 02:19
13C6 PFDA	0.95	0.75	80	25-150		12/21/2022 02:19
d3-MeFOSAA	0.95	0.62	65	25-150		12/21/2022 02:19
13C8 PFOSA	0.95	0.64	67	25-150		12/21/2022 02:19
d5-EtFOSAA	0.95	0.68	72	25-150		12/21/2022 02:19
13C7 PFUdA	0.95	0.66	69	25-150		12/21/2022 02:19
13C2 PFDoA	0.95	0.68	72	25-150		12/21/2022 02:19
13C2 PFTeDA	0.95	0.66	69	25-150		12/21/2022 02:19
13C3 HFPO-DA	0.95	0.69	73	25-150		12/21/2022 02:19
d7-N-MeFOSE	0.95	0.60	64	10-150		12/21/2022 02:19
d9-N-EtFOSE	0.95	0.67	70	10-150		12/21/2022 02:19
d3-N-MeFOSA	0.95	0.49	52	10-150		12/21/2022 02:19
d5-N-EtFOSA	0.95	0.49	52	10-150		12/21/2022 02:19

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB9-24-0
 Lab Sample ID 10635405007
 Lab File ID B221220C_018
 Matrix Solid
 Collected 11/28/2022 17:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.27g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.18	4.20	18		12/21/2022 02:19
13C5 PFPeA	N/A	N/A	5.05	5.06	22		12/21/2022 02:19
13C3 PFBS	N/A	N/A	6.01	6.05	27		12/21/2022 02:19
13C2 4:2FTS	N/A	N/A	5.46	5.50	86		12/21/2022 02:19
13C5 PFHxA	N/A	N/A	5.74	5.78	18		12/21/2022 02:19
13C4 PFHpA	N/A	N/A	6.43	6.45	23		12/21/2022 02:19
13C3 PFHxS	N/A	N/A	7.53	7.58	23		12/21/2022 02:19
13C2 6:2FTS	N/A	N/A	6.75	6.77	11		12/21/2022 02:19
13C8 PFOA	N/A	N/A	7.10	7.13	21		12/21/2022 02:19
13C9 PFNA	N/A	N/A	7.76	7.78	17		12/21/2022 02:19
13C8 PFOS	N/A	N/A	8.96	8.98	23		12/21/2022 02:19
13C2 8:2FTS	N/A	N/A	8.06	8.07	10		12/21/2022 02:19
13C6 PFDA	N/A	N/A	8.45	8.46	12		12/21/2022 02:19
d3-MeFOSAA	N/A	N/A	8.30	8.31	78		12/21/2022 02:19
13C8 PFOSA	N/A	N/A	10.60	10.62	11		12/21/2022 02:19
d5-EtFOSAA	N/A	N/A	8.60	8.61	11		12/21/2022 02:19
13C7 PFUdA	N/A	N/A	9.14	9.16	23		12/21/2022 02:19
13C2 PFDoA	N/A	N/A	9.84	9.85	12		12/21/2022 02:19
13C2 PFTeDA	N/A	N/A	11.18	11.21	10		12/21/2022 02:19
13C3 HFPO-DA	N/A	N/A	6.02	6.03	21		12/21/2022 02:19
d7-N-MeFOSE	N/A	N/A	12.50	12.54	43		12/21/2022 02:19
d9-N-EtFOSE	N/A	N/A	12.97	13.00	18		12/21/2022 02:19
d3-N-MeFOSA	N/A	N/A	12.71	12.73	81		12/21/2022 02:19
d5-N-EtFOSA	N/A	N/A	13.12	13.15	71		12/21/2022 02:19

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB9-24-0
 Lab Sample ID 10635405007
 Lab File ID B221220C_018
 Matrix Solid
 Collected 11/28/2022 17:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.27g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.19	4.20	81	J	12/21/2022 02:19
PFPeA	N/A	N/A	5.06	5.06	ND		12/21/2022 02:19
HFPO-DA	0.47	0.34	6.04	6.04	ND		12/21/2022 02:19
PFBS	0.54	0.40	6.02	6.03	ND		12/21/2022 02:19
PFHxA	0.05	0.07	5.75	5.76	ND		12/21/2022 02:19
4:2 FTS	0.00	0.76	0.00	5.50	ND		12/21/2022 02:19
PFPeS	0.00	0.43	0.00	6.83	ND		12/21/2022 02:19
PFHpA	0.36	0.31	6.44	6.46	ND		12/21/2022 02:19
DONA	0.00	0.59	0.00	6.70	ND		12/21/2022 02:19
PFHxS	0.38	0.37	7.53	7.58	ND		12/21/2022 02:19
PFOA	0.22	0.37	7.10	7.11	ND		12/21/2022 02:19
6:2 FTS	0.00	0.93	0.00	6.76	ND		12/21/2022 02:19
PFHpS	0.00	0.48	0.00	8.27	ND		12/21/2022 02:19
PFNA	0.21	0.18	7.77	7.79	ND		12/21/2022 02:19
PFOSAm	N/A	N/A	10.61	10.71	ND		12/21/2022 02:19
PFOS	0.47	0.41	8.97	9.11	11		12/21/2022 02:19
MeFOSA	0.00	0.54	0.00	12.78	ND		12/21/2022 02:19
PFDA	0.15	0.16	8.46	8.53	ND		12/21/2022 02:19
EtFOSAm	0.00	0.48	0.00	13.20	ND		12/21/2022 02:19
8:2 FTS	0.00	1.00	0.00	8.13	ND		12/21/2022 02:19
9-CI-PF3ON	0.00	0.07	0.00	9.49	ND		12/21/2022 02:19
PFNS	0.00	0.44	0.00	9.68	ND		12/21/2022 02:19
PFUnDA	0.17	0.14	9.14	9.17	ND		12/21/2022 02:19
NMeFOSAA	0.00	0.77	0.00	8.32	ND		12/21/2022 02:19
NEtFOSAA	0.00	0.64	0.00	8.62	ND		12/21/2022 02:19
PFDS	0.33	0.32	10.35	10.37	ND		12/21/2022 02:19
PFDOA	0.14	0.19	9.84	9.86	ND		12/21/2022 02:19
MeFOSE	N/A	N/A	0.00	12.59	ND		12/21/2022 02:19
EtFOSE	0.00	0.00	13.01	13.04	ND		12/21/2022 02:19
11-CI-PF3OUdS	0.00	0.02	0.00	10.86	ND		12/21/2022 02:19
PFTTrDA	0.17	0.17	10.53	10.54	ND		12/21/2022 02:19
PFDoS	0.00	0.46	0.00	11.64	ND		12/21/2022 02:19
PFTDA	0.18	0.25	11.19	11.21	ND		12/21/2022 02:19

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB12-24-0
 Lab Sample ID 10635405010
 Lab File ID B221220C_019
 Matrix Solid
 Collected 11/28/2022 17:10
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.12g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.098	0.028	0.028	1	375-22-4		12/21/2022 02:39
PFPeA	ND	0.098	0.028	0.028	1	2706-90-3		12/21/2022 02:39
HFPO-DA	ND	0.098	0.027	0.027	1	13252-13-6		12/21/2022 02:39
PFBS	ND	0.086	0.026	0.026	1	375-73-5		12/21/2022 02:39
PFHxA	ND	0.098	0.027	0.027	1	307-24-4		12/21/2022 02:39
4:2 FTS	ND	0.091	0.023	0.023	1	757124-72-4		12/21/2022 02:39
PFPeS	ND	0.092	0.023	0.023	1	2706-91-4		12/21/2022 02:39
PFHpA	ND	0.098	0.034	0.034	1	375-85-9		12/21/2022 02:39
DONA	ND	0.092	0.035	0.035	1	919005-14-4		12/21/2022 02:39
PFHxS	ND	0.089	0.021	0.021	1	355-46-4		12/21/2022 02:39
PFOA	ND	0.098	0.030	0.030	1	335-67-1		12/21/2022 02:39
6:2 FTS	ND	0.093	0.040	0.040	1	27619-97-2		12/21/2022 02:39
PFHpS	ND	0.093	0.027	0.027	1	375-92-8		12/21/2022 02:39
PFNA	ND	0.098	0.030	0.030	1	375-95-1		12/21/2022 02:39
PFOSAm	ND	0.098	0.029	0.029	1	754-91-6		12/21/2022 02:39
PFOS	ND	0.090	0.029	0.029	1	1763-23-1		12/21/2022 02:39
MeFOSA	ND	0.098	0.027	0.027	1	31506-32-8		12/21/2022 02:39
PFDA	ND	0.098	0.022	0.022	1	335-76-2		12/21/2022 02:39
EtFOSAm	ND	0.098	0.025	0.025	1	4151-50-2		12/21/2022 02:39
8:2 FTS	ND	0.094	0.043	0.043	1	39108-34-4		12/21/2022 02:39
9-CI-PF3ON	ND	0.091	0.025	0.025	1	756426-58-1		12/21/2022 02:39
PFNS	ND	0.094	0.034	0.034	1	68259-12-1		12/21/2022 02:39
PFUnDA	ND	0.098	0.029	0.029	1	2058-94-8		12/21/2022 02:39
NMeFOSAA	ND	0.098	0.027	0.027	1	2355-31-9		12/21/2022 02:39
NEtFOSAA	ND	0.098	0.039	0.039	1	2991-50-6		12/21/2022 02:39
PFDS	ND	0.094	0.028	0.028	1	335-77-3		12/21/2022 02:39
PFDOA	ND	0.098	0.032	0.032	1	307-55-1		12/21/2022 02:39
MeFOSE	ND	0.098	0.030	0.030	1	24448-09-7		12/21/2022 02:39
EtFOSE	ND	0.098	0.031	0.031	1	1691-99-2		12/21/2022 02:39
11-CI-PF3OUdS	ND	0.092	0.025	0.025	1	763051-92-9		12/21/2022 02:39
PFTTrDA	ND	0.098	0.031	0.031	1	72629-94-8		12/21/2022 02:39
PFDoS	ND	0.095	0.025	0.025	1	79780-39-5		12/21/2022 02:39
PFTDA	ND	0.098	0.034	0.034	1	376-06-7		12/21/2022 02:39

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB12-24-0
 Lab Sample ID 10635405010
 Lab File ID B221220C_019
 Matrix Solid
 Collected 11/28/2022 17:10
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.12g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.98	0.72	74	25-150		12/21/2022 02:39
13C5 PFPeA	0.98	0.72	74	25-150		12/21/2022 02:39
13C3 PFBS	0.91	0.66	73	25-150		12/21/2022 02:39
13C2 4:2FTS	0.91	0.71	78	25-150		12/21/2022 02:39
13C5 PFHxA	0.98	0.73	75	25-150		12/21/2022 02:39
13C4 PFHpA	0.98	0.70	71	25-150		12/21/2022 02:39
13C3 PFHxS	0.92	0.68	74	25-150		12/21/2022 02:39
13C2 6:2FTS	0.93	0.68	73	25-150		12/21/2022 02:39
13C8 PFOA	0.98	0.74	75	25-150		12/21/2022 02:39
13C9 PFNA	0.98	0.76	78	25-150		12/21/2022 02:39
13C8 PFOS	0.93	0.72	77	25-150		12/21/2022 02:39
13C2 8:2FTS	0.94	0.83	89	25-150		12/21/2022 02:39
13C6 PFDA	0.98	0.80	81	25-150		12/21/2022 02:39
d3-MeFOSAA	0.98	0.66	67	25-150		12/21/2022 02:39
13C8 PFOSA	0.98	0.64	65	25-150		12/21/2022 02:39
d5-EtFOSAA	0.98	0.80	82	25-150		12/21/2022 02:39
13C7 PFUdA	0.98	0.76	77	25-150		12/21/2022 02:39
13C2 PFDoA	0.98	0.80	82	25-150		12/21/2022 02:39
13C2 PFTeDA	0.98	0.74	76	25-150		12/21/2022 02:39
13C3 HFPO-DA	0.98	0.72	74	25-150		12/21/2022 02:39
d7-N-MeFOSE	0.98	0.61	62	10-150		12/21/2022 02:39
d9-N-EtFOSE	0.98	0.72	73	10-150		12/21/2022 02:39
d3-N-MeFOSA	0.98	0.63	64	10-150		12/21/2022 02:39
d5-N-EtFOSA	0.98	0.65	66	10-150		12/21/2022 02:39

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB12-24-0
 Lab Sample ID 10635405010
 Lab File ID B221220C_019
 Matrix Solid
 Collected 11/28/2022 17:10
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.12g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.18	4.20	18		12/21/2022 02:39
13C5 PFPeA	N/A	N/A	5.05	5.06	30		12/21/2022 02:39
13C3 PFBS	N/A	N/A	6.01	6.05	20		12/21/2022 02:39
13C2 4:2FTS	N/A	N/A	5.46	5.50	58		12/21/2022 02:39
13C5 PFHxA	N/A	N/A	5.75	5.78	16		12/21/2022 02:39
13C4 PFHpA	N/A	N/A	6.43	6.45	22		12/21/2022 02:39
13C3 PFHxS	N/A	N/A	7.53	7.58	18		12/21/2022 02:39
13C2 6:2FTS	N/A	N/A	6.75	6.77	68		12/21/2022 02:39
13C8 PFOA	N/A	N/A	7.10	7.13	28		12/21/2022 02:39
13C9 PFNA	N/A	N/A	7.77	7.78	20		12/21/2022 02:39
13C8 PFOS	N/A	N/A	8.95	8.98	91		12/21/2022 02:39
13C2 8:2FTS	N/A	N/A	8.06	8.07	82		12/21/2022 02:39
13C6 PFDA	N/A	N/A	8.45	8.46	92		12/21/2022 02:39
d3-MeFOSAA	N/A	N/A	8.30	8.31	16		12/21/2022 02:39
13C8 PFOSA	N/A	N/A	10.60	10.62	11		12/21/2022 02:39
d5-EtFOSAA	N/A	N/A	8.60	8.61	14		12/21/2022 02:39
13C7 PFUdA	N/A	N/A	9.14	9.16	23		12/21/2022 02:39
13C2 PFDoA	N/A	N/A	9.83	9.85	10		12/21/2022 02:39
13C2 PFTeDA	N/A	N/A	11.18	11.21	10		12/21/2022 02:39
13C3 HFPO-DA	N/A	N/A	6.02	6.03	26		12/21/2022 02:39
d7-N-MeFOSE	N/A	N/A	12.53	12.54	53		12/21/2022 02:39
d9-N-EtFOSE	N/A	N/A	12.99	13.00	28		12/21/2022 02:39
d3-N-MeFOSA	N/A	N/A	12.73	12.73	68		12/21/2022 02:39
d5-N-EtFOSA	N/A	N/A	13.14	13.15	69		12/21/2022 02:39

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 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.12g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.19	4.20	ND		12/21/2022 02:39
PFPeA	N/A	N/A	5.06	5.06	ND		12/21/2022 02:39
HFPO-DA	0.52	0.34	6.04	6.04	ND		12/21/2022 02:39
PFBS	0.51	0.40	6.01	6.03	ND		12/21/2022 02:39
PFHxA	0.00	0.07	0.00	5.76	ND		12/21/2022 02:39
4:2 FTS	0.00	0.76	0.00	5.50	ND		12/21/2022 02:39
PFPeS	0.00	0.43	0.00	6.83	ND		12/21/2022 02:39
PFHpA	0.00	0.31	0.00	6.46	ND		12/21/2022 02:39
DONA	0.00	0.59	0.00	6.70	ND		12/21/2022 02:39
PFHxS	0.54	0.37	7.54	7.58	ND		12/21/2022 02:39
PFOA	0.62	0.37	7.13	7.11	ND		12/21/2022 02:39
6:2 FTS	0.00	0.93	0.00	6.76	ND		12/21/2022 02:39
PFHpS	0.00	0.48	0.00	8.27	ND		12/21/2022 02:39
PFNA	0.36	0.18	7.77	7.79	ND		12/21/2022 02:39
PFOSAm	N/A	N/A	10.60	10.71	ND		12/21/2022 02:39
PFOS	0.54	0.41	8.96	9.11	ND		12/21/2022 02:39
MeFOSA	0.00	0.54	0.00	12.78	ND		12/21/2022 02:39
PFDA	0.20	0.16	8.46	8.53	ND		12/21/2022 02:39
EtFOSAm	0.00	0.48	0.00	13.20	ND		12/21/2022 02:39
8:2 FTS	0.00	1.00	0.00	8.13	ND		12/21/2022 02:39
9-Cl-PF3ON	0.00	0.07	0.00	9.49	ND		12/21/2022 02:39
PFNS	0.00	0.44	0.00	9.68	ND		12/21/2022 02:39
PFUnDA	0.13	0.14	9.14	9.17	ND		12/21/2022 02:39
NMeFOSAA	0.00	0.77	0.00	8.32	ND		12/21/2022 02:39
NEtFOSAA	0.78	0.64	8.62	8.62	ND		12/21/2022 02:39
PFDS	0.44	0.32	10.34	10.37	ND		12/21/2022 02:39
PFDOA	0.16	0.19	9.84	9.86	ND		12/21/2022 02:39
MeFOSE	N/A	N/A	0.00	12.59	ND		12/21/2022 02:39
EtFOSE	0.00	0.00	13.03	13.04	ND		12/21/2022 02:39
11-Cl-PF3OUdS	0.00	0.02	0.00	10.86	ND		12/21/2022 02:39
PFTTrDA	0.15	0.17	10.52	10.54	ND		12/21/2022 02:39
PFDoS	0.00	0.46	0.00	11.64	ND		12/21/2022 02:39
PFTDA	0.29	0.25	11.18	11.21	ND		12/21/2022 02:39

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB13-24-0
 Lab Sample ID 10635405011
 Lab File ID B221220C_020
 Matrix Solid
 Collected 11/28/2022 15:30
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.00g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	0.078 J	0.100	0.028	0.028	1	375-22-4		12/21/2022 02:59
PFPeA	ND	0.100	0.028	0.028	1	2706-90-3		12/21/2022 02:59
HFPO-DA	ND	0.100	0.028	0.028	1	13252-13-6		12/21/2022 02:59
PFBS	ND	0.088	0.026	0.026	1	375-73-5		12/21/2022 02:59
PFHxA	0.042 J	0.100	0.027	0.027	1	307-24-4		12/21/2022 02:59
4:2 FTS	ND	0.093	0.023	0.023	1	757124-72-4		12/21/2022 02:59
PFPeS	ND	0.094	0.024	0.024	1	2706-91-4		12/21/2022 02:59
PFHpA	ND	0.100	0.035	0.035	1	375-85-9		12/21/2022 02:59
DONA	ND	0.094	0.036	0.036	1	919005-14-4		12/21/2022 02:59
PFHxS	0.097 I	0.091	0.022	0.022	1	355-46-4		12/21/2022 02:59
PFOA	0.092 J	0.100	0.031	0.031	1	335-67-1		12/21/2022 02:59
6:2 FTS	ND	0.095	0.041	0.041	1	27619-97-2		12/21/2022 02:59
PFHpS	ND	0.095	0.028	0.028	1	375-92-8		12/21/2022 02:59
PFNA	0.045 J	0.100	0.031	0.031	1	375-95-1		12/21/2022 02:59
PFOSAm	ND	0.100	0.029	0.029	1	754-91-6		12/21/2022 02:59
PFOS	0.56	0.092	0.030	0.030	1	1763-23-1		12/21/2022 02:59
MeFOSA	ND	0.100	0.027	0.027	1	31506-32-8		12/21/2022 02:59
PFDA	ND	0.100	0.023	0.023	1	335-76-2		12/21/2022 02:59
EtFOSAm	ND	0.100	0.026	0.026	1	4151-50-2		12/21/2022 02:59
8:2 FTS	ND	0.096	0.044	0.044	1	39108-34-4		12/21/2022 02:59
9-CI-PF3ON	ND	0.093	0.025	0.025	1	756426-58-1		12/21/2022 02:59
PFNS	ND	0.096	0.035	0.035	1	68259-12-1		12/21/2022 02:59
PFUnDA	ND	0.100	0.030	0.030	1	2058-94-8		12/21/2022 02:59
NMeFOSAA	ND	0.100	0.028	0.028	1	2355-31-9		12/21/2022 02:59
NEtFOSAA	ND	0.100	0.040	0.040	1	2991-50-6		12/21/2022 02:59
PFDS	ND	0.096	0.028	0.028	1	335-77-3		12/21/2022 02:59
PFDOA	ND	0.100	0.033	0.033	1	307-55-1		12/21/2022 02:59
MeFOSE	ND	0.100	0.030	0.030	1	24448-09-7		12/21/2022 02:59
EtFOSE	ND	0.100	0.032	0.032	1	1691-99-2		12/21/2022 02:59
11-CI-PF3OUdS	ND	0.094	0.025	0.025	1	763051-92-9		12/21/2022 02:59
PFTTrDA	ND	0.100	0.032	0.032	1	72629-94-8		12/21/2022 02:59
PFDoS	ND	0.097	0.026	0.026	1	79780-39-5		12/21/2022 02:59
PFTDA	ND	0.100	0.034	0.034	1	376-06-7		12/21/2022 02:59

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB13-24-0
 Lab Sample ID 10635405011
 Lab File ID B221220C_020
 Matrix Solid
 Collected 11/28/2022 15:30
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.00g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.00	0.76	76	25-150		12/21/2022 02:59
13C5 PFPeA	1.00	0.73	73	25-150		12/21/2022 02:59
13C3 PFBS	0.93	0.68	73	25-150		12/21/2022 02:59
13C2 4:2FTS	0.93	1.6	173	25-150	R	12/21/2022 02:59
13C5 PFHxA	1.00	0.74	74	25-150		12/21/2022 02:59
13C4 PFHpA	1.00	0.69	69	25-150		12/21/2022 02:59
13C3 PFHxS	0.95	0.69	73	25-150		12/21/2022 02:59
13C2 6:2FTS	0.95	1.5	160	25-150	R	12/21/2022 02:59
13C8 PFOA	1.00	0.70	70	25-150		12/21/2022 02:59
13C9 PFNA	1.00	0.76	76	25-150		12/21/2022 02:59
13C8 PFOS	0.96	0.67	70	25-150		12/21/2022 02:59
13C2 8:2FTS	0.96	2.2	229	25-150	R	12/21/2022 02:59
13C6 PFDA	1.00	0.84	84	25-150		12/21/2022 02:59
d3-MeFOSAA	1.00	0.81	82	25-150		12/21/2022 02:59
13C8 PFOSA	1.00	0.75	75	25-150		12/21/2022 02:59
d5-EtFOSAA	1.00	1.0	103	25-150		12/21/2022 02:59
13C7 PFUdA	1.00	0.70	70	25-150		12/21/2022 02:59
13C2 PFDoA	1.00	0.75	75	25-150		12/21/2022 02:59
13C2 PFTeDA	1.00	0.82	82	25-150		12/21/2022 02:59
13C3 HFPO-DA	1.00	0.65	65	25-150		12/21/2022 02:59
d7-N-MeFOSE	1.00	0.50	50	10-150		12/21/2022 02:59
d9-N-EtFOSE	1.00	0.52	52	10-150		12/21/2022 02:59
d3-N-MeFOSA	1.00	0.45	45	10-150		12/21/2022 02:59
d5-N-EtFOSA	1.00	0.41	41	10-150		12/21/2022 02:59

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 Lab Sample ID 10635405011
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 Matrix Solid
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 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.00g
 Ical ID 221219A02
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Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.18	4.20	22		12/21/2022 02:59
13C5 PFPeA	N/A	N/A	5.04	5.06	22		12/21/2022 02:59
13C3 PFBS	N/A	N/A	6.01	6.05	10		12/21/2022 02:59
13C2 4:2FTS	N/A	N/A	5.46	5.50	46	R	12/21/2022 02:59
13C5 PFHxA	N/A	N/A	5.74	5.78	13		12/21/2022 02:59
13C4 PFHpA	N/A	N/A	6.42	6.45	19		12/21/2022 02:59
13C3 PFHxS	N/A	N/A	7.53	7.58	13		12/21/2022 02:59
13C2 6:2FTS	N/A	N/A	6.75	6.77	63	R	12/21/2022 02:59
13C8 PFOA	N/A	N/A	7.10	7.13	25		12/21/2022 02:59
13C9 PFNA	N/A	N/A	7.76	7.78	18		12/21/2022 02:59
13C8 PFOS	N/A	N/A	8.95	8.98	90		12/21/2022 02:59
13C2 8:2FTS	N/A	N/A	8.05	8.07	65	R	12/21/2022 02:59
13C6 PFDA	N/A	N/A	8.44	8.46	14		12/21/2022 02:59
d3-MeFOSAA	N/A	N/A	8.30	8.31	64		12/21/2022 02:59
13C8 PFOSA	N/A	N/A	10.59	10.62	10		12/21/2022 02:59
d5-EtFOSAA	N/A	N/A	8.59	8.61	90		12/21/2022 02:59
13C7 PFUdA	N/A	N/A	9.13	9.16	17		12/21/2022 02:59
13C2 PFDoA	N/A	N/A	9.82	9.85	76		12/21/2022 02:59
13C2 PFTeDA	N/A	N/A	11.17	11.21	12		12/21/2022 02:59
13C3 HFPO-DA	N/A	N/A	6.02	6.03	17		12/21/2022 02:59
d7-N-MeFOSE	N/A	N/A	12.51	12.54	60		12/21/2022 02:59
d9-N-EtFOSE	N/A	N/A	12.98	13.00	21		12/21/2022 02:59
d3-N-MeFOSA	N/A	N/A	12.71	12.73	21		12/21/2022 02:59
d5-N-EtFOSA	N/A	N/A	13.13	13.15	45		12/21/2022 02:59

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Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.19	4.20	78	J	12/21/2022 02:59
PFPeA	N/A	N/A	5.05	5.06	ND		12/21/2022 02:59
HFPO-DA	2.20	0.34	6.03	6.04	ND		12/21/2022 02:59
PFBS	0.53	0.40	6.02	6.03	ND		12/21/2022 02:59
PFHxA	0.06	0.07	5.75	5.76	27	J	12/21/2022 02:59
4:2 FTS	0.00	0.76	0.00	5.50	ND		12/21/2022 02:59
PFPeS	0.49	0.43	6.80	6.83	ND		12/21/2022 02:59
PFHpA	0.31	0.31	6.43	6.46	ND		12/21/2022 02:59
DONA	0.00	0.59	0.00	6.70	ND		12/21/2022 02:59
PFHxS	0.76	0.37	7.53	7.58	36	I	12/21/2022 02:59
PFOA	0.37	0.37	7.10	7.11	13	J	12/21/2022 02:59
6:2 FTS	0.91	0.93	6.76	6.76	ND		12/21/2022 02:59
PFHpS	0.73	0.48	8.26	8.27	ND		12/21/2022 02:59
PFNA	0.12	0.18	7.77	7.79	12	J	12/21/2022 02:59
PFOSAm	N/A	N/A	10.59	10.71	ND		12/21/2022 02:59
PFOS	0.37	0.41	8.96	9.11	31		12/21/2022 02:59
MeFOSA	0.00	0.54	0.00	12.78	ND		12/21/2022 02:59
PFDA	0.22	0.16	8.45	8.53	ND		12/21/2022 02:59
EtFOSAm	0.00	0.48	0.00	13.20	ND		12/21/2022 02:59
8:2 FTS	0.00	1.00	0.00	8.13	ND		12/21/2022 02:59
9-CI-PF3ON	0.00	0.07	0.00	9.49	ND		12/21/2022 02:59
PFNS	0.00	0.44	0.00	9.68	ND		12/21/2022 02:59
PFUnDA	0.12	0.14	9.14	9.17	ND		12/21/2022 02:59
NMeFOSAA	0.93	0.77	8.30	8.32	ND		12/21/2022 02:59
NEtFOSAA	0.00	0.64	0.00	8.62	ND		12/21/2022 02:59
PFDS	0.42	0.32	10.33	10.37	ND		12/21/2022 02:59
PFDOA	0.17	0.19	9.82	9.86	ND		12/21/2022 02:59
MeFOSE	N/A	N/A	0.00	12.59	ND		12/21/2022 02:59
EtFOSE	0.00	0.00	0.00	13.04	ND		12/21/2022 02:59
11-CI-PF3OUdS	0.00	0.02	0.00	10.86	ND		12/21/2022 02:59
PFTTrDA	0.23	0.17	10.51	10.54	ND		12/21/2022 02:59
PFDoS	0.00	0.46	0.00	11.64	ND		12/21/2022 02:59
PFTDA	0.26	0.25	11.18	11.21	ND		12/21/2022 02:59

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB14-24-0
 Lab Sample ID 10635405012
 Lab File ID B221220C_021
 Matrix Solid
 Collected 11/28/2022 15:40
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.22g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	0.11	0.096	0.027	0.027	1	375-22-4		12/21/2022 03:19
PFPeA	ND	0.096	0.027	0.027	1	2706-90-3		12/21/2022 03:19
HFPO-DA	ND	0.096	0.027	0.027	1	13252-13-6		12/21/2022 03:19
PFBS	ND	0.085	0.025	0.025	1	375-73-5		12/21/2022 03:19
PFHxA	ND	0.096	0.026	0.026	1	307-24-4		12/21/2022 03:19
4:2 FTS	ND	0.090	0.022	0.022	1	757124-72-4		12/21/2022 03:19
PFPeS	ND	0.090	0.023	0.023	1	2706-91-4		12/21/2022 03:19
PFHpA	ND	0.096	0.033	0.033	1	375-85-9		12/21/2022 03:19
DONA	ND	0.091	0.035	0.035	1	919005-14-4		12/21/2022 03:19
PFHxS	0.025 J	0.087	0.021	0.021	1	355-46-4		12/21/2022 03:19
PFOA	0.053 J	0.096	0.030	0.030	1	335-67-1		12/21/2022 03:19
6:2 FTS	ND	0.091	0.040	0.040	1	27619-97-2		12/21/2022 03:19
PFHpS	ND	0.091	0.027	0.027	1	375-92-8		12/21/2022 03:19
PFNA	ND	0.096	0.030	0.030	1	375-95-1		12/21/2022 03:19
PFOSAm	ND	0.096	0.028	0.028	1	754-91-6		12/21/2022 03:19
PFOS	0.23	0.089	0.028	0.028	1	1763-23-1		12/21/2022 03:19
MeFOSA	ND	0.096	0.026	0.026	1	31506-32-8		12/21/2022 03:19
PFDA	ND	0.096	0.022	0.022	1	335-76-2		12/21/2022 03:19
EtFOSAm	ND	0.096	0.025	0.025	1	4151-50-2		12/21/2022 03:19
8:2 FTS	ND	0.092	0.042	0.042	1	39108-34-4		12/21/2022 03:19
9-CI-PF3ON	ND	0.089	0.024	0.024	1	756426-58-1		12/21/2022 03:19
PFNS	ND	0.092	0.033	0.033	1	68259-12-1		12/21/2022 03:19
PFUnDA	ND	0.096	0.029	0.029	1	2058-94-8		12/21/2022 03:19
NMeFOSAA	ND	0.096	0.027	0.027	1	2355-31-9		12/21/2022 03:19
NEtFOSAA	ND	0.096	0.039	0.039	1	2991-50-6		12/21/2022 03:19
PFDS	ND	0.092	0.027	0.027	1	335-77-3		12/21/2022 03:19
PFDOA	ND	0.096	0.032	0.032	1	307-55-1		12/21/2022 03:19
MeFOSE	ND	0.096	0.029	0.029	1	24448-09-7		12/21/2022 03:19
EtFOSE	ND	0.096	0.031	0.031	1	1691-99-2		12/21/2022 03:19
11-CI-PF3OUdS	ND	0.090	0.024	0.024	1	763051-92-9		12/21/2022 03:19
PFTTrDA	ND	0.096	0.031	0.031	1	72629-94-8		12/21/2022 03:19
PFDoS	ND	0.093	0.025	0.025	1	79780-39-5		12/21/2022 03:19
PFTDA	ND	0.096	0.033	0.033	1	376-06-7		12/21/2022 03:19

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB14-24-0
 Lab Sample ID 10635405012
 Lab File ID B221220C_021
 Matrix Solid
 Collected 11/28/2022 15:40
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.22g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.96	0.71	74	25-150		12/21/2022 03:19
13C5 PFPeA	0.96	0.71	74	25-150		12/21/2022 03:19
13C3 PFBS	0.89	0.71	80	25-150		12/21/2022 03:19
13C2 4:2FTS	0.90	0.79	88	25-150		12/21/2022 03:19
13C5 PFHxA	0.96	0.71	74	25-150		12/21/2022 03:19
13C4 PFHpA	0.96	0.73	77	25-150		12/21/2022 03:19
13C3 PFHxS	0.91	0.73	80	25-150		12/21/2022 03:19
13C2 6:2FTS	0.91	0.72	79	25-150		12/21/2022 03:19
13C8 PFOA	0.96	0.71	74	25-150		12/21/2022 03:19
13C9 PFNA	0.96	0.76	79	25-150		12/21/2022 03:19
13C8 PFOS	0.92	0.74	80	25-150		12/21/2022 03:19
13C2 8:2FTS	0.92	0.97	106	25-150		12/21/2022 03:19
13C6 PFDA	0.96	0.92	95	25-150		12/21/2022 03:19
d3-MeFOSAA	0.96	0.76	79	25-150		12/21/2022 03:19
13C8 PFOSA	0.96	0.65	68	25-150		12/21/2022 03:19
d5-EtFOSAA	0.96	0.84	88	25-150		12/21/2022 03:19
13C7 PFUdA	0.96	0.76	79	25-150		12/21/2022 03:19
13C2 PFDoA	0.96	0.81	84	25-150		12/21/2022 03:19
13C2 PFTeDA	0.96	0.86	89	25-150		12/21/2022 03:19
13C3 HFPO-DA	0.96	0.71	74	25-150		12/21/2022 03:19
d7-N-MeFOSE	0.96	0.62	64	10-150		12/21/2022 03:19
d9-N-EtFOSE	0.96	0.72	75	10-150		12/21/2022 03:19
d3-N-MeFOSA	0.96	0.60	63	10-150		12/21/2022 03:19
d5-N-EtFOSA	0.96	0.60	63	10-150		12/21/2022 03:19

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 Blank File B221220C_007

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.18	4.20	20		12/21/2022 03:19
13C5 PFPeA	N/A	N/A	5.04	5.06	22		12/21/2022 03:19
13C3 PFBS	N/A	N/A	6.01	6.05	19		12/21/2022 03:19
13C2 4:2FTS	N/A	N/A	5.45	5.50	63		12/21/2022 03:19
13C5 PFHxA	N/A	N/A	5.74	5.78	18		12/21/2022 03:19
13C4 PFHpA	N/A	N/A	6.42	6.45	20		12/21/2022 03:19
13C3 PFHxS	N/A	N/A	7.53	7.58	28		12/21/2022 03:19
13C2 6:2FTS	N/A	N/A	6.75	6.77	99		12/21/2022 03:19
13C8 PFOA	N/A	N/A	7.10	7.13	28		12/21/2022 03:19
13C9 PFNA	N/A	N/A	7.77	7.78	21		12/21/2022 03:19
13C8 PFOS	N/A	N/A	8.96	8.98	20		12/21/2022 03:19
13C2 8:2FTS	N/A	N/A	8.06	8.07	13		12/21/2022 03:19
13C6 PFDA	N/A	N/A	8.45	8.46	10		12/21/2022 03:19
d3-MeFOSAA	N/A	N/A	8.30	8.31	27		12/21/2022 03:19
13C8 PFOSA	N/A	N/A	10.59	10.62	12		12/21/2022 03:19
d5-EtFOSAA	N/A	N/A	8.60	8.61	11		12/21/2022 03:19
13C7 PFUdA	N/A	N/A	9.14	9.16	22		12/21/2022 03:19
13C2 PFDoA	N/A	N/A	9.83	9.85	10		12/21/2022 03:19
13C2 PFTeDA	N/A	N/A	11.18	11.21	11		12/21/2022 03:19
13C3 HFPO-DA	N/A	N/A	6.02	6.03	17		12/21/2022 03:19
d7-N-MeFOSE	N/A	N/A	12.52	12.54	43		12/21/2022 03:19
d9-N-EtFOSE	N/A	N/A	12.99	13.00	25		12/21/2022 03:19
d3-N-MeFOSA	N/A	N/A	12.72	12.73	82		12/21/2022 03:19
d5-N-EtFOSA	N/A	N/A	13.14	13.15	72		12/21/2022 03:19

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Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.19	4.20	15		12/21/2022 03:19
PFPeA	N/A	N/A	5.05	5.06	ND		12/21/2022 03:19
HFPO-DA	0.26	0.34	6.03	6.04	ND		12/21/2022 03:19
PFBS	0.53	0.40	6.02	6.03	ND		12/21/2022 03:19
PFHxA	0.09	0.07	5.75	5.76	ND		12/21/2022 03:19
4:2 FTS	0.00	0.76	0.00	5.50	ND		12/21/2022 03:19
PFPeS	0.61	0.43	6.80	6.83	ND		12/21/2022 03:19
PFHpA	0.26	0.31	6.43	6.46	ND		12/21/2022 03:19
DONA	0.00	0.59	0.00	6.70	ND		12/21/2022 03:19
PFHxS	0.43	0.37	7.54	7.58	38	J	12/21/2022 03:19
PFOA	0.33	0.37	7.10	7.11	11	J	12/21/2022 03:19
6:2 FTS	0.71	0.93	6.75	6.76	ND		12/21/2022 03:19
PFHpS	0.00	0.48	0.00	8.27	ND		12/21/2022 03:19
PFNA	0.16	0.18	7.78	7.79	ND		12/21/2022 03:19
PFOSAm	N/A	N/A	10.60	10.71	ND		12/21/2022 03:19
PFOS	0.43	0.41	8.97	9.11	44		12/21/2022 03:19
MeFOSA	0.00	0.54	0.00	12.78	ND		12/21/2022 03:19
PFDA	0.17	0.16	8.46	8.53	ND		12/21/2022 03:19
EtFOSAm	0.00	0.48	0.00	13.20	ND		12/21/2022 03:19
8:2 FTS	0.00	1.00	0.00	8.13	ND		12/21/2022 03:19
9-CI-PF3ON	0.00	0.07	0.00	9.49	ND		12/21/2022 03:19
PFNS	0.00	0.44	0.00	9.68	ND		12/21/2022 03:19
PFUnDA	0.13	0.14	9.14	9.17	ND		12/21/2022 03:19
NMeFOSAA	0.00	0.77	0.00	8.32	ND		12/21/2022 03:19
NEtFOSAA	0.00	0.64	0.00	8.62	ND		12/21/2022 03:19
PFDS	0.00	0.32	0.00	10.37	ND		12/21/2022 03:19
PFDOA	0.11	0.19	9.83	9.86	ND		12/21/2022 03:19
MeFOSE	N/A	N/A	0.00	12.59	ND		12/21/2022 03:19
EtFOSE	0.00	0.00	0.00	13.04	ND		12/21/2022 03:19
11-CI-PF3OUdS	0.00	0.02	0.00	10.86	ND		12/21/2022 03:19
PFTTrDA	0.12	0.17	10.52	10.54	ND		12/21/2022 03:19
PFDoS	0.00	0.46	0.00	11.64	ND		12/21/2022 03:19
PFTDA	0.23	0.25	11.18	11.21	ND		12/21/2022 03:19

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB15-24-0
 Lab Sample ID 10635405013
 Lab File ID B221220C_022
 Matrix Solid
 Collected 11/28/2022 15:50
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.32g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	0.053 J	0.094	0.027	0.027	1	375-22-4		12/21/2022 03:39
PFPeA	0.044 J	0.094	0.027	0.027	1	2706-90-3		12/21/2022 03:39
HFPO-DA	ND	0.094	0.026	0.026	1	13252-13-6		12/21/2022 03:39
PFBS	ND	0.083	0.025	0.025	1	375-73-5		12/21/2022 03:39
PFHxA	0.081 J	0.094	0.026	0.026	1	307-24-4		12/21/2022 03:39
4:2 FTS	ND	0.088	0.022	0.022	1	757124-72-4		12/21/2022 03:39
PFPeS	ND	0.088	0.023	0.023	1	2706-91-4		12/21/2022 03:39
PFHpA	ND	0.094	0.033	0.033	1	375-85-9		12/21/2022 03:39
DONA	ND	0.089	0.034	0.034	1	919005-14-4		12/21/2022 03:39
PFHxS	0.51	0.086	0.021	0.021	1	355-46-4		12/21/2022 03:39
PFOA	0.064 J	0.094	0.029	0.029	1	335-67-1		12/21/2022 03:39
6:2 FTS	ND	0.089	0.039	0.039	1	27619-97-2		12/21/2022 03:39
PFHpS	0.095	0.089	0.026	0.026	1	375-92-8		12/21/2022 03:39
PFNA	ND	0.094	0.029	0.029	1	375-95-1		12/21/2022 03:39
PFOSAm	0.089 J	0.094	0.028	0.028	1	754-91-6		12/21/2022 03:39
PFOS	25 D	0.87	0.28	0.28	10	1763-23-1		12/21/2022 14:00
MeFOSA	ND	0.094	0.026	0.026	1	31506-32-8		12/21/2022 03:39
PFDA	ND	0.094	0.021	0.021	1	335-76-2		12/21/2022 03:39
EtFOSAm	ND	0.094	0.024	0.024	1	4151-50-2		12/21/2022 03:39
8:2 FTS	ND	0.090	0.041	0.041	1	39108-34-4		12/21/2022 03:39
9-CI-PF3ON	ND	0.088	0.024	0.024	1	756426-58-1		12/21/2022 03:39
PFNS	0.074 J	0.090	0.033	0.033	1	68259-12-1		12/21/2022 03:39
PFUnDA	ND	0.094	0.028	0.028	1	2058-94-8		12/21/2022 03:39
NMeFOSAA	ND	0.094	0.026	0.026	1	2355-31-9		12/21/2022 03:39
NEtFOSAA	ND	0.094	0.038	0.038	1	2991-50-6		12/21/2022 03:39
PFDS	0.068 J	0.091	0.027	0.027	1	335-77-3		12/21/2022 03:39
PFDOA	ND	0.094	0.031	0.031	1	307-55-1		12/21/2022 03:39
MeFOSE	ND	0.094	0.028	0.028	1	24448-09-7		12/21/2022 03:39
EtFOSE	ND	0.094	0.030	0.030	1	1691-99-2		12/21/2022 03:39
11-CI-PF3OUdS	ND	0.089	0.024	0.024	1	763051-92-9		12/21/2022 03:39
PFTTrDA	ND	0.094	0.030	0.030	1	72629-94-8		12/21/2022 03:39
PFDoS	0.059 J	0.091	0.025	0.025	1	79780-39-5		12/21/2022 03:39
PFTDA	ND	0.094	0.032	0.032	1	376-06-7		12/21/2022 03:39

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 Matrix Solid
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Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.94	0.67	71	25-150		12/21/2022 03:39
13C5 PFPeA	0.94	0.68	73	25-150		12/21/2022 03:39
13C3 PFBS	0.87	0.64	73	25-150		12/21/2022 03:39
13C2 4:2FTS	0.88	0.76	87	25-150		12/21/2022 03:39
13C5 PFHxA	0.94	0.67	71	25-150		12/21/2022 03:39
13C4 PFHpA	0.94	0.71	75	25-150		12/21/2022 03:39
13C3 PFHxS	0.89	0.67	75	25-150		12/21/2022 03:39
13C2 6:2FTS	0.89	0.64	71	25-150		12/21/2022 03:39
13C8 PFOA	0.94	0.68	72	25-150		12/21/2022 03:39
13C9 PFNA	0.94	0.73	78	25-150		12/21/2022 03:39
13C8 PFOS	0.90	0.84	93	25-150	D	12/21/2022 14:00
13C2 8:2FTS	0.90	0.85	94	25-150		12/21/2022 03:39
13C6 PFDA	0.94	0.87	92	25-150		12/21/2022 03:39
d3-MeFOSAA	0.94	0.63	67	25-150		12/21/2022 03:39
13C8 PFOSA	0.94	0.50	53	25-150		12/21/2022 03:39
d5-EtFOSAA	0.94	0.76	81	25-150		12/21/2022 03:39
13C7 PFUdA	0.94	0.73	78	25-150		12/21/2022 03:39
13C2 PFDoA	0.94	0.73	77	25-150		12/21/2022 03:39
13C2 PFTeDA	0.94	0.72	77	25-150		12/21/2022 03:39
13C3 HFPO-DA	0.94	0.69	74	25-150		12/21/2022 03:39
d7-N-MeFOSE	0.94	0.30	32	10-150		12/21/2022 03:39
d9-N-EtFOSE	0.94	0.34	36	10-150		12/21/2022 03:39
d3-N-MeFOSA	0.94	0.040	4	10-150	R	12/21/2022 03:39
d5-N-EtFOSA	0.94	0.043	5	10-150	R	12/21/2022 03:39

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Total Amount Extracted 5.32g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.18	4.20	25		12/21/2022 03:39
13C5 PFPeA	N/A	N/A	5.04	5.06	23		12/21/2022 03:39
13C3 PFBS	N/A	N/A	6.00	6.05	18		12/21/2022 03:39
13C2 4:2FTS	N/A	N/A	5.45	5.50	64		12/21/2022 03:39
13C5 PFHxA	N/A	N/A	5.74	5.78	16		12/21/2022 03:39
13C4 PFHpA	N/A	N/A	6.42	6.45	21		12/21/2022 03:39
13C3 PFHxS	N/A	N/A	7.53	7.58	31		12/21/2022 03:39
13C2 6:2FTS	N/A	N/A	6.74	6.77	95		12/21/2022 03:39
13C8 PFOA	N/A	N/A	7.09	7.13	24		12/21/2022 03:39
13C9 PFNA	N/A	N/A	7.76	7.78	18		12/21/2022 03:39
13C8 PFOS	N/A	N/A	8.96	8.98	96	D	12/21/2022 14:00
13C2 8:2FTS	N/A	N/A	8.06	8.07	96		12/21/2022 03:39
13C6 PFDA	N/A	N/A	8.45	8.46	11		12/21/2022 03:39
d3-MeFOSAA	N/A	N/A	8.30	8.31	16		12/21/2022 03:39
13C8 PFOSA	N/A	N/A	10.59	10.62	11		12/21/2022 03:39
d5-EtFOSAA	N/A	N/A	8.60	8.61	14		12/21/2022 03:39
13C7 PFUdA	N/A	N/A	9.14	9.16	30		12/21/2022 03:39
13C2 PFDoA	N/A	N/A	9.83	9.85	91		12/21/2022 03:39
13C2 PFTeDA	N/A	N/A	11.18	11.21	12		12/21/2022 03:39
13C3 HFPO-DA	N/A	N/A	6.01	6.03	18		12/21/2022 03:39
d7-N-MeFOSE	N/A	N/A	12.51	12.54	46		12/21/2022 03:39
d9-N-EtFOSE	N/A	N/A	12.98	13.00	19		12/21/2022 03:39
d3-N-MeFOSA	N/A	N/A	12.72	12.73	18	R	12/21/2022 03:39
d5-N-EtFOSA	N/A	N/A	13.13	13.15	25	R	12/21/2022 03:39

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB15-24-0
 Lab Sample ID 10635405013
 Lab File ID B221220C_022
 Matrix Solid
 Collected 11/28/2022 15:50
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.32g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.19	4.20	12	J	12/21/2022 03:39
PFPeA	N/A	N/A	5.05	5.06	13	J	12/21/2022 03:39
HFPO-DA	0.17	0.34	6.03	6.04	ND		12/21/2022 03:39
PFBS	0.54	0.40	6.01	6.03	ND		12/21/2022 03:39
PFHxA	0.08	0.07	5.74	5.76	14	J	12/21/2022 03:39
4:2 FTS	0.00	0.76	0.00	5.50	ND		12/21/2022 03:39
PFPeS	0.57	0.43	6.80	6.83	ND		12/21/2022 03:39
PFHpA	0.28	0.31	6.42	6.46	ND		12/21/2022 03:39
DONA	0.00	0.59	0.00	6.70	ND		12/21/2022 03:39
PFHxS	0.36	0.37	7.53	7.58	16		12/21/2022 03:39
PFOA	0.31	0.37	7.10	7.11	97	J	12/21/2022 03:39
6:2 FTS	0.00	0.93	0.00	6.76	ND		12/21/2022 03:39
PFHpS	0.39	0.48	8.26	8.27	29		12/21/2022 03:39
PFNA	0.11	0.18	7.77	7.79	ND		12/21/2022 03:39
PFOSAm	N/A	N/A	10.60	10.71	18	J	12/21/2022 03:39
PFOS	0.40	0.36	8.97	8.99	97	D	12/21/2022 14:00
MeFOSA	0.00	0.54	0.00	12.78	ND		12/21/2022 03:39
PFDA	0.15	0.16	8.46	8.53	ND		12/21/2022 03:39
EtFOSAm	0.00	0.48	0.00	13.20	ND		12/21/2022 03:39
8:2 FTS	0.00	1.00	0.00	8.13	ND		12/21/2022 03:39
9-CI-PF3ON	0.00	0.07	0.00	9.49	ND		12/21/2022 03:39
PFNS	0.47	0.44	9.66	9.68	91	J	12/21/2022 03:39
PFUnDA	0.15	0.14	9.15	9.17	ND		12/21/2022 03:39
NMeFOSAA	1.80	0.77	8.31	8.32	ND		12/21/2022 03:39
NEtFOSAA	0.00	0.64	0.00	8.62	ND		12/21/2022 03:39
PFDS	0.38	0.32	10.34	10.37	11	J	12/21/2022 03:39
PFDOA	0.19	0.19	9.84	9.86	ND		12/21/2022 03:39
MeFOSE	N/A	N/A	0.00	12.59	ND		12/21/2022 03:39
EtFOSE	0.00	0.00	0.00	13.04	ND		12/21/2022 03:39
11-CI-PF3OUdS	0.00	0.02	0.00	10.86	ND		12/21/2022 03:39
PFTTrDA	0.16	0.17	10.52	10.54	ND		12/21/2022 03:39
PFDoS	0.48	0.46	11.60	11.64	21	J	12/21/2022 03:39
PFTDA	0.23	0.25	11.18	11.21	ND		12/21/2022 03:39

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB16-24-0
 Lab Sample ID 10635405014
 Lab File ID B221220C_023
 Matrix Solid
 Collected 11/28/2022 16:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.30g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	0.083 J	0.094	0.027	0.027	1	375-22-4		12/21/2022 03:59
PFPeA	ND	0.094	0.027	0.027	1	2706-90-3		12/21/2022 03:59
HFPO-DA	ND	0.094	0.026	0.026	1	13252-13-6		12/21/2022 03:59
PFBS	ND	0.083	0.025	0.025	1	375-73-5		12/21/2022 03:59
PFHxA	0.038 IJ	0.094	0.026	0.026	1	307-24-4		12/21/2022 03:59
4:2 FTS	ND	0.088	0.022	0.022	1	757124-72-4		12/21/2022 03:59
PFPeS	ND	0.089	0.023	0.023	1	2706-91-4		12/21/2022 03:59
PFHpA	ND	0.094	0.033	0.033	1	375-85-9		12/21/2022 03:59
DONA	ND	0.089	0.034	0.034	1	919005-14-4		12/21/2022 03:59
PFHxS	0.13	0.086	0.021	0.021	1	355-46-4		12/21/2022 03:59
PFOA	0.080 J	0.094	0.029	0.029	1	335-67-1		12/21/2022 03:59
6:2 FTS	ND	0.090	0.039	0.039	1	27619-97-2		12/21/2022 03:59
PFHpS	ND	0.090	0.026	0.026	1	375-92-8		12/21/2022 03:59
PFNA	ND	0.094	0.029	0.029	1	375-95-1		12/21/2022 03:59
PFOSAm	ND	0.094	0.028	0.028	1	754-91-6		12/21/2022 03:59
PFOS	1.2	0.087	0.028	0.028	1	1763-23-1		12/21/2022 03:59
MeFOSA	ND	0.094	0.026	0.026	1	31506-32-8		12/21/2022 03:59
PFDA	ND	0.094	0.021	0.021	1	335-76-2		12/21/2022 03:59
EtFOSAm	ND	0.094	0.024	0.024	1	4151-50-2		12/21/2022 03:59
8:2 FTS	ND	0.090	0.041	0.041	1	39108-34-4		12/21/2022 03:59
9-CI-PF3ON	ND	0.088	0.024	0.024	1	756426-58-1		12/21/2022 03:59
PFNS	ND	0.090	0.033	0.033	1	68259-12-1		12/21/2022 03:59
PFUnDA	ND	0.094	0.028	0.028	1	2058-94-8		12/21/2022 03:59
NMeFOSAA	ND	0.094	0.026	0.026	1	2355-31-9		12/21/2022 03:59
NEtFOSAA	ND	0.094	0.038	0.038	1	2991-50-6		12/21/2022 03:59
PFDS	ND	0.091	0.027	0.027	1	335-77-3		12/21/2022 03:59
PFDOA	ND	0.094	0.031	0.031	1	307-55-1		12/21/2022 03:59
MeFOSE	ND	0.094	0.029	0.029	1	24448-09-7		12/21/2022 03:59
EtFOSE	ND	0.094	0.030	0.030	1	1691-99-2		12/21/2022 03:59
11-CI-PF3OUdS	ND	0.089	0.024	0.024	1	763051-92-9		12/21/2022 03:59
PFTTrDA	ND	0.094	0.030	0.030	1	72629-94-8		12/21/2022 03:59
PFDoS	ND	0.091	0.025	0.025	1	79780-39-5		12/21/2022 03:59
PFTDA	ND	0.094	0.032	0.032	1	376-06-7		12/21/2022 03:59

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB16-24-0
 Lab Sample ID 10635405014
 Lab File ID B221220C_023
 Matrix Solid
 Collected 11/28/2022 16:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.30g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.94	0.75	80	25-150		12/21/2022 03:59
13C5 PFPeA	0.94	0.75	80	25-150		12/21/2022 03:59
13C3 PFBS	0.88	0.71	82	25-150		12/21/2022 03:59
13C2 4:2FTS	0.88	0.72	82	25-150		12/21/2022 03:59
13C5 PFHxA	0.94	0.84	89	25-150		12/21/2022 03:59
13C4 PFHpA	0.94	0.73	78	25-150		12/21/2022 03:59
13C3 PFHxS	0.89	0.68	76	25-150		12/21/2022 03:59
13C2 6:2FTS	0.89	0.64	72	25-150		12/21/2022 03:59
13C8 PFOA	0.94	0.79	84	25-150		12/21/2022 03:59
13C9 PFNA	0.94	0.75	80	25-150		12/21/2022 03:59
13C8 PFOS	0.90	0.72	80	25-150		12/21/2022 03:59
13C2 8:2FTS	0.90	0.79	88	25-150		12/21/2022 03:59
13C6 PFDA	0.94	0.84	90	25-150		12/21/2022 03:59
d3-MeFOSAA	0.94	0.70	74	25-150		12/21/2022 03:59
13C8 PFOSA	0.94	0.69	73	25-150		12/21/2022 03:59
d5-EtFOSAA	0.94	0.71	75	25-150		12/21/2022 03:59
13C7 PFUdA	0.94	0.75	80	25-150		12/21/2022 03:59
13C2 PFDoA	0.94	0.76	81	25-150		12/21/2022 03:59
13C2 PFTeDA	0.94	0.74	78	25-150		12/21/2022 03:59
13C3 HFPO-DA	0.94	0.78	82	25-150		12/21/2022 03:59
d7-N-MeFOSE	0.94	0.68	72	10-150		12/21/2022 03:59
d9-N-EtFOSE	0.94	0.74	79	10-150		12/21/2022 03:59
d3-N-MeFOSA	0.94	0.62	66	10-150		12/21/2022 03:59
d5-N-EtFOSA	0.94	0.68	73	10-150		12/21/2022 03:59

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB16-24-0
 Lab Sample ID 10635405014
 Lab File ID B221220C_023
 Matrix Solid
 Collected 11/28/2022 16:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.30g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.18	4.20	21		12/21/2022 03:59
13C5 PFPeA	N/A	N/A	5.05	5.06	28		12/21/2022 03:59
13C3 PFBS	N/A	N/A	6.01	6.05	23		12/21/2022 03:59
13C2 4:2FTS	N/A	N/A	5.46	5.50	57		12/21/2022 03:59
13C5 PFHxA	N/A	N/A	5.75	5.78	23		12/21/2022 03:59
13C4 PFHpA	N/A	N/A	6.43	6.45	18		12/21/2022 03:59
13C3 PFHxS	N/A	N/A	7.53	7.58	26		12/21/2022 03:59
13C2 6:2FTS	N/A	N/A	6.75	6.77	12		12/21/2022 03:59
13C8 PFOA	N/A	N/A	7.10	7.13	25		12/21/2022 03:59
13C9 PFNA	N/A	N/A	7.77	7.78	18		12/21/2022 03:59
13C8 PFOS	N/A	N/A	8.95	8.98	11		12/21/2022 03:59
13C2 8:2FTS	N/A	N/A	8.06	8.07	99		12/21/2022 03:59
13C6 PFDA	N/A	N/A	8.45	8.46	12		12/21/2022 03:59
d3-MeFOSAA	N/A	N/A	8.31	8.31	29		12/21/2022 03:59
13C8 PFOSA	N/A	N/A	10.59	10.62	10		12/21/2022 03:59
d5-EtFOSAA	N/A	N/A	8.60	8.61	14		12/21/2022 03:59
13C7 PFUdA	N/A	N/A	9.14	9.16	25		12/21/2022 03:59
13C2 PFDoA	N/A	N/A	9.83	9.85	86		12/21/2022 03:59
13C2 PFTeDA	N/A	N/A	11.17	11.21	10		12/21/2022 03:59
13C3 HFPO-DA	N/A	N/A	6.02	6.03	25		12/21/2022 03:59
d7-N-MeFOSE	N/A	N/A	12.51	12.54	45		12/21/2022 03:59
d9-N-EtFOSE	N/A	N/A	12.98	13.00	33		12/21/2022 03:59
d3-N-MeFOSA	N/A	N/A	12.71	12.73	57		12/21/2022 03:59
d5-N-EtFOSA	N/A	N/A	13.13	13.15	72		12/21/2022 03:59

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB16-24-0
 Lab Sample ID 10635405014
 Lab File ID B221220C_023
 Matrix Solid
 Collected 11/28/2022 16:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.30g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.19	4.20	14	J	12/21/2022 03:59
PFPeA	N/A	N/A	5.05	5.06	ND		12/21/2022 03:59
HFPO-DA	0.26	0.34	6.04	6.04	ND		12/21/2022 03:59
PFBS	0.58	0.40	6.02	6.03	ND		12/21/2022 03:59
PFHxA	0.13	0.07	5.75	5.76	10	IJ	12/21/2022 03:59
4:2 FTS	0.00	0.76	0.00	5.50	ND		12/21/2022 03:59
PFPeS	0.36	0.43	6.80	6.83	ND		12/21/2022 03:59
PFHpA	0.26	0.31	6.43	6.46	ND		12/21/2022 03:59
DONA	0.00	0.59	0.00	6.70	ND		12/21/2022 03:59
PFHxS	0.41	0.37	7.54	7.58	12		12/21/2022 03:59
PFOA	0.42	0.37	7.10	7.11	12	J	12/21/2022 03:59
6:2 FTS	0.00	0.93	0.00	6.76	ND		12/21/2022 03:59
PFHpS	0.49	0.48	8.26	8.27	ND		12/21/2022 03:59
PFNA	0.15	0.18	7.78	7.79	ND		12/21/2022 03:59
PFOSAm	N/A	N/A	10.60	10.71	ND		12/21/2022 03:59
PFOS	0.37	0.41	8.96	9.11	46		12/21/2022 03:59
MeFOSA	0.00	0.54	0.00	12.78	ND		12/21/2022 03:59
PFDA	0.11	0.16	8.47	8.53	ND		12/21/2022 03:59
EtFOSAm	0.00	0.48	0.00	13.20	ND		12/21/2022 03:59
8:2 FTS	0.00	1.00	0.00	8.13	ND		12/21/2022 03:59
9-Cl-PF3ON	0.00	0.07	0.00	9.49	ND		12/21/2022 03:59
PFNS	0.46	0.44	9.65	9.68	ND		12/21/2022 03:59
PFUnDA	0.00	0.14	0.00	9.17	ND		12/21/2022 03:59
NMeFOSAA	0.00	0.77	0.00	8.32	ND		12/21/2022 03:59
NEtFOSAA	0.00	0.64	0.00	8.62	ND		12/21/2022 03:59
PFDS	0.33	0.32	10.33	10.37	ND		12/21/2022 03:59
PFDOA	0.09	0.19	9.83	9.86	ND		12/21/2022 03:59
MeFOSE	N/A	N/A	0.00	12.59	ND		12/21/2022 03:59
EtFOSE	0.00	0.00	0.00	13.04	ND		12/21/2022 03:59
11-Cl-PF3OUdS	0.00	0.02	0.00	10.86	ND		12/21/2022 03:59
PFTTrDA	0.15	0.17	10.50	10.54	ND		12/21/2022 03:59
PFDoS	0.73	0.46	11.59	11.64	ND		12/21/2022 03:59
PFTDA	0.21	0.25	11.18	11.21	ND		12/21/2022 03:59

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB17-24-0
 Lab Sample ID 10635405015
 Lab File ID B221220C_024
 Matrix Solid
 Collected 11/28/2022 14:40
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.40g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.093	0.026	0.026	1	375-22-4		12/21/2022 04:19
PFPeA	ND	0.093	0.026	0.026	1	2706-90-3		12/21/2022 04:19
HFPO-DA	ND	0.093	0.026	0.026	1	13252-13-6		12/21/2022 04:19
PFBS	ND	0.082	0.024	0.024	1	375-73-5		12/21/2022 04:19
PFHxA	ND	0.093	0.025	0.025	1	307-24-4		12/21/2022 04:19
4:2 FTS	ND	0.087	0.021	0.021	1	757124-72-4		12/21/2022 04:19
PFPeS	ND	0.087	0.022	0.022	1	2706-91-4		12/21/2022 04:19
PFHpA	ND	0.093	0.032	0.032	1	375-85-9		12/21/2022 04:19
DONA	ND	0.088	0.034	0.034	1	919005-14-4		12/21/2022 04:19
PFHxS	ND	0.084	0.020	0.020	1	355-46-4		12/21/2022 04:19
PFOA	ND	0.093	0.029	0.029	1	335-67-1		12/21/2022 04:19
6:2 FTS	ND	0.088	0.038	0.038	1	27619-97-2		12/21/2022 04:19
PFHpS	ND	0.088	0.026	0.026	1	375-92-8		12/21/2022 04:19
PFNA	ND	0.093	0.029	0.029	1	375-95-1		12/21/2022 04:19
PFOSAm	ND	0.093	0.027	0.027	1	754-91-6		12/21/2022 04:19
PFOS	0.096	0.086	0.027	0.027	1	1763-23-1		12/21/2022 04:19
MeFOSA	ND	0.093	0.025	0.025	1	31506-32-8		12/21/2022 04:19
PFDA	ND	0.093	0.021	0.021	1	335-76-2		12/21/2022 04:19
EtFOSAm	ND	0.093	0.024	0.024	1	4151-50-2		12/21/2022 04:19
8:2 FTS	ND	0.089	0.041	0.041	1	39108-34-4		12/21/2022 04:19
9-CI-PF3ON	ND	0.086	0.023	0.023	1	756426-58-1		12/21/2022 04:19
PFNS	ND	0.089	0.032	0.032	1	68259-12-1		12/21/2022 04:19
PFUnDA	ND	0.093	0.028	0.028	1	2058-94-8		12/21/2022 04:19
NMeFOSAA	ND	0.093	0.026	0.026	1	2355-31-9		12/21/2022 04:19
NEtFOSAA	ND	0.093	0.037	0.037	1	2991-50-6		12/21/2022 04:19
PFDS	ND	0.089	0.026	0.026	1	335-77-3		12/21/2022 04:19
PFDOA	ND	0.093	0.030	0.030	1	307-55-1		12/21/2022 04:19
MeFOSE	ND	0.093	0.028	0.028	1	24448-09-7		12/21/2022 04:19
EtFOSE	ND	0.093	0.030	0.030	1	1691-99-2		12/21/2022 04:19
11-CI-PF3OUdS	ND	0.087	0.023	0.023	1	763051-92-9		12/21/2022 04:19
PFTTrDA	ND	0.093	0.030	0.030	1	72629-94-8		12/21/2022 04:19
PFDoS	ND	0.090	0.024	0.024	1	79780-39-5		12/21/2022 04:19
PFTDA	ND	0.093	0.032	0.032	1	376-06-7		12/21/2022 04:19

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB17-24-0
 Lab Sample ID 10635405015
 Lab File ID B221220C_024
 Matrix Solid
 Collected 11/28/2022 14:40
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.40g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.93	0.71	76	25-150		12/21/2022 04:19
13C5 PFPeA	0.93	0.69	75	25-150		12/21/2022 04:19
13C3 PFBS	0.86	0.67	78	25-150		12/21/2022 04:19
13C2 4:2FTS	0.87	0.68	78	25-150		12/21/2022 04:19
13C5 PFHxA	0.93	0.73	79	25-150		12/21/2022 04:19
13C4 PFHpA	0.93	0.68	73	25-150		12/21/2022 04:19
13C3 PFHxS	0.88	0.66	75	25-150		12/21/2022 04:19
13C2 6:2FTS	0.88	0.73	83	25-150		12/21/2022 04:19
13C8 PFOA	0.93	0.68	74	25-150		12/21/2022 04:19
13C9 PFNA	0.93	0.72	78	25-150		12/21/2022 04:19
13C8 PFOS	0.89	0.69	78	25-150		12/21/2022 04:19
13C2 8:2FTS	0.89	0.74	84	25-150		12/21/2022 04:19
13C6 PFDA	0.93	0.79	86	25-150		12/21/2022 04:19
d3-MeFOSAA	0.93	0.64	69	25-150		12/21/2022 04:19
13C8 PFOSA	0.93	0.63	68	25-150		12/21/2022 04:19
d5-EtFOSAA	0.93	0.70	75	25-150		12/21/2022 04:19
13C7 PFUdA	0.93	0.72	78	25-150		12/21/2022 04:19
13C2 PFDoA	0.93	0.71	77	25-150		12/21/2022 04:19
13C2 PFTeDA	0.93	0.65	70	25-150		12/21/2022 04:19
13C3 HFPO-DA	0.93	0.70	76	25-150		12/21/2022 04:19
d7-N-MeFOSE	0.93	0.62	67	10-150		12/21/2022 04:19
d9-N-EtFOSE	0.93	0.62	67	10-150		12/21/2022 04:19
d3-N-MeFOSA	0.93	0.61	66	10-150		12/21/2022 04:19
d5-N-EtFOSA	0.93	0.62	67	10-150		12/21/2022 04:19

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Total Amount Extracted 5.40g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.18	4.20	19		12/21/2022 04:19
13C5 PFPeA	N/A	N/A	5.04	5.06	24		12/21/2022 04:19
13C3 PFBS	N/A	N/A	6.01	6.05	26		12/21/2022 04:19
13C2 4:2FTS	N/A	N/A	5.46	5.50	76		12/21/2022 04:19
13C5 PFHxA	N/A	N/A	5.74	5.78	20		12/21/2022 04:19
13C4 PFHpA	N/A	N/A	6.43	6.45	16		12/21/2022 04:19
13C3 PFHxS	N/A	N/A	7.54	7.58	32		12/21/2022 04:19
13C2 6:2FTS	N/A	N/A	6.76	6.77	13		12/21/2022 04:19
13C8 PFOA	N/A	N/A	7.10	7.13	22		12/21/2022 04:19
13C9 PFNA	N/A	N/A	7.77	7.78	19		12/21/2022 04:19
13C8 PFOS	N/A	N/A	8.96	8.98	23		12/21/2022 04:19
13C2 8:2FTS	N/A	N/A	8.07	8.07	36		12/21/2022 04:19
13C6 PFDA	N/A	N/A	8.46	8.46	15		12/21/2022 04:19
d3-MeFOSAA	N/A	N/A	8.31	8.31	17		12/21/2022 04:19
13C8 PFOSA	N/A	N/A	10.60	10.62	13		12/21/2022 04:19
d5-EtFOSAA	N/A	N/A	8.61	8.61	12		12/21/2022 04:19
13C7 PFUdA	N/A	N/A	9.14	9.16	24		12/21/2022 04:19
13C2 PFDoA	N/A	N/A	9.83	9.85	11		12/21/2022 04:19
13C2 PFTeDA	N/A	N/A	11.18	11.21	13		12/21/2022 04:19
13C3 HFPO-DA	N/A	N/A	6.03	6.03	19		12/21/2022 04:19
d7-N-MeFOSE	N/A	N/A	12.52	12.54	44		12/21/2022 04:19
d9-N-EtFOSE	N/A	N/A	12.99	13.00	31		12/21/2022 04:19
d3-N-MeFOSA	N/A	N/A	12.72	12.73	70		12/21/2022 04:19
d5-N-EtFOSA	N/A	N/A	13.14	13.15	82		12/21/2022 04:19

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 Blank File B221220C_007

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.19	4.20	ND		12/21/2022 04:19
PFPeA	N/A	N/A	5.05	5.06	ND		12/21/2022 04:19
HFPO-DA	0.29	0.34	6.04	6.04	ND		12/21/2022 04:19
PFBS	0.50	0.40	6.02	6.03	ND		12/21/2022 04:19
PFHxA	0.07	0.07	5.76	5.76	ND		12/21/2022 04:19
4:2 FTS	0.00	0.76	0.00	5.50	ND		12/21/2022 04:19
PFPeS	0.00	0.43	0.00	6.83	ND		12/21/2022 04:19
PFHpA	0.27	0.31	6.43	6.46	ND		12/21/2022 04:19
DONA	0.00	0.59	0.00	6.70	ND		12/21/2022 04:19
PFHxS	0.41	0.37	7.54	7.58	ND		12/21/2022 04:19
PFOA	0.59	0.37	7.10	7.11	ND		12/21/2022 04:19
6:2 FTS	1.00	0.93	6.75	6.76	ND		12/21/2022 04:19
PFHpS	0.00	0.48	0.00	8.27	ND		12/21/2022 04:19
PFNA	0.14	0.18	7.78	7.79	ND		12/21/2022 04:19
PFOSAm	N/A	N/A	10.60	10.71	ND		12/21/2022 04:19
PFOS	0.46	0.41	8.97	9.11	53		12/21/2022 04:19
MeFOSA	0.00	0.54	0.00	12.78	ND		12/21/2022 04:19
PFDA	0.00	0.16	0.00	8.53	ND		12/21/2022 04:19
EtFOSAm	0.00	0.48	0.00	13.20	ND		12/21/2022 04:19
8:2 FTS	0.00	1.00	0.00	8.13	ND		12/21/2022 04:19
9-Cl-PF3ON	0.00	0.07	0.00	9.49	ND		12/21/2022 04:19
PFNS	0.00	0.44	0.00	9.68	ND		12/21/2022 04:19
PFUnDA	0.08	0.14	9.15	9.17	ND		12/21/2022 04:19
NMeFOSAA	0.00	0.77	0.00	8.32	ND		12/21/2022 04:19
NEtFOSAA	0.00	0.64	0.00	8.62	ND		12/21/2022 04:19
PFDS	0.00	0.32	0.00	10.37	ND		12/21/2022 04:19
PFDOA	0.06	0.19	9.83	9.86	ND		12/21/2022 04:19
MeFOSE	N/A	N/A	0.00	12.59	ND		12/21/2022 04:19
EtFOSE	0.00	0.00	13.29	13.04	ND		12/21/2022 04:19
11-Cl-PF3OUdS	0.00	0.02	0.00	10.86	ND		12/21/2022 04:19
PFTrDA	0.08	0.17	10.52	10.54	ND		12/21/2022 04:19
PFDoS	0.00	0.46	0.00	11.64	ND		12/21/2022 04:19
PFTDA	0.23	0.25	11.19	11.21	ND		12/21/2022 04:19

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB18-24-0
 Lab Sample ID 10635405016
 Lab File ID B221220C_025
 Matrix Solid
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 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.13g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.098	0.028	0.028	1	375-22-4		12/21/2022 04:39
PFPeA	ND	0.098	0.028	0.028	1	2706-90-3		12/21/2022 04:39
HFPO-DA	ND	0.098	0.027	0.027	1	13252-13-6		12/21/2022 04:39
PFBS	ND	0.086	0.026	0.026	1	375-73-5		12/21/2022 04:39
PFHxA	ND	0.098	0.027	0.027	1	307-24-4		12/21/2022 04:39
4:2 FTS	ND	0.091	0.023	0.023	1	757124-72-4		12/21/2022 04:39
PFPeS	ND	0.092	0.023	0.023	1	2706-91-4		12/21/2022 04:39
PFHpA	ND	0.098	0.034	0.034	1	375-85-9		12/21/2022 04:39
DONA	ND	0.092	0.035	0.035	1	919005-14-4		12/21/2022 04:39
PFHxS	ND	0.089	0.021	0.021	1	355-46-4		12/21/2022 04:39
PFOA	ND	0.098	0.030	0.030	1	335-67-1		12/21/2022 04:39
6:2 FTS	ND	0.093	0.040	0.040	1	27619-97-2		12/21/2022 04:39
PFHpS	ND	0.093	0.027	0.027	1	375-92-8		12/21/2022 04:39
PFNA	ND	0.098	0.030	0.030	1	375-95-1		12/21/2022 04:39
PFOSAm	ND	0.098	0.029	0.029	1	754-91-6		12/21/2022 04:39
PFOS	0.068 J	0.090	0.029	0.029	1	1763-23-1		12/21/2022 04:39
MeFOSA	ND	0.098	0.027	0.027	1	31506-32-8		12/21/2022 04:39
PFDA	ND	0.098	0.022	0.022	1	335-76-2		12/21/2022 04:39
EtFOSAm	ND	0.098	0.025	0.025	1	4151-50-2		12/21/2022 04:39
8:2 FTS	ND	0.094	0.043	0.043	1	39108-34-4		12/21/2022 04:39
9-CI-PF3ON	ND	0.091	0.024	0.024	1	756426-58-1		12/21/2022 04:39
PFNS	ND	0.094	0.034	0.034	1	68259-12-1		12/21/2022 04:39
PFUnDA	ND	0.098	0.029	0.029	1	2058-94-8		12/21/2022 04:39
NMeFOSAA	ND	0.098	0.027	0.027	1	2355-31-9		12/21/2022 04:39
NEtFOSAA	ND	0.098	0.039	0.039	1	2991-50-6		12/21/2022 04:39
PFDS	ND	0.094	0.028	0.028	1	335-77-3		12/21/2022 04:39
PFDOA	ND	0.098	0.032	0.032	1	307-55-1		12/21/2022 04:39
MeFOSE	ND	0.098	0.030	0.030	1	24448-09-7		12/21/2022 04:39
EtFOSE	ND	0.098	0.031	0.031	1	1691-99-2		12/21/2022 04:39
11-CI-PF3OUdS	ND	0.092	0.025	0.025	1	763051-92-9		12/21/2022 04:39
PFTTrDA	ND	0.098	0.031	0.031	1	72629-94-8		12/21/2022 04:39
PFDoS	ND	0.094	0.025	0.025	1	79780-39-5		12/21/2022 04:39
PFTDA	ND	0.098	0.033	0.033	1	376-06-7		12/21/2022 04:39

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 Lab Sample ID 10635405016
 Lab File ID B221220C_025
 Matrix Solid
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 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.13g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.98	0.77	79	25-150		12/21/2022 04:39
13C5 PFPeA	0.98	0.77	79	25-150		12/21/2022 04:39
13C3 PFBS	0.91	0.73	80	25-150		12/21/2022 04:39
13C2 4:2FTS	0.91	0.69	75	25-150		12/21/2022 04:39
13C5 PFHxA	0.98	0.79	81	25-150		12/21/2022 04:39
13C4 PFHpA	0.98	0.79	81	25-150		12/21/2022 04:39
13C3 PFHxS	0.92	0.72	78	25-150		12/21/2022 04:39
13C2 6:2FTS	0.93	0.71	76	25-150		12/21/2022 04:39
13C8 PFOA	0.98	0.78	80	25-150		12/21/2022 04:39
13C9 PFNA	0.98	0.77	79	25-150		12/21/2022 04:39
13C8 PFOS	0.93	0.70	75	25-150		12/21/2022 04:39
13C2 8:2FTS	0.93	0.74	79	25-150		12/21/2022 04:39
13C6 PFDA	0.98	0.88	90	25-150		12/21/2022 04:39
d3-MeFOSAA	0.98	0.69	71	25-150		12/21/2022 04:39
13C8 PFOSA	0.98	0.70	72	25-150		12/21/2022 04:39
d5-EtFOSAA	0.98	0.83	85	25-150		12/21/2022 04:39
13C7 PFUdA	0.98	0.72	74	25-150		12/21/2022 04:39
13C2 PFDoA	0.98	0.76	78	25-150		12/21/2022 04:39
13C2 PFTeDA	0.98	0.70	72	25-150		12/21/2022 04:39
13C3 HFPO-DA	0.98	0.79	81	25-150		12/21/2022 04:39
d7-N-MeFOSE	0.98	0.70	72	10-150		12/21/2022 04:39
d9-N-EtFOSE	0.98	0.72	73	10-150		12/21/2022 04:39
d3-N-MeFOSA	0.98	0.63	64	10-150		12/21/2022 04:39
d5-N-EtFOSA	0.98	0.67	68	10-150		12/21/2022 04:39

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Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.18	4.20	18		12/21/2022 04:39
13C5 PFPeA	N/A	N/A	5.05	5.06	28		12/21/2022 04:39
13C3 PFBS	N/A	N/A	6.01	6.05	22		12/21/2022 04:39
13C2 4:2FTS	N/A	N/A	5.46	5.50	73		12/21/2022 04:39
13C5 PFHxA	N/A	N/A	5.75	5.78	21		12/21/2022 04:39
13C4 PFHpA	N/A	N/A	6.43	6.45	16		12/21/2022 04:39
13C3 PFHxS	N/A	N/A	7.53	7.58	24		12/21/2022 04:39
13C2 6:2FTS	N/A	N/A	6.75	6.77	13		12/21/2022 04:39
13C8 PFOA	N/A	N/A	7.10	7.13	24		12/21/2022 04:39
13C9 PFNA	N/A	N/A	7.77	7.78	20		12/21/2022 04:39
13C8 PFOS	N/A	N/A	8.96	8.98	15		12/21/2022 04:39
13C2 8:2FTS	N/A	N/A	8.06	8.07	20		12/21/2022 04:39
13C6 PFDA	N/A	N/A	8.45	8.46	10		12/21/2022 04:39
d3-MeFOSAA	N/A	N/A	8.30	8.31	18		12/21/2022 04:39
13C8 PFOSA	N/A	N/A	10.60	10.62	11		12/21/2022 04:39
d5-EtFOSAA	N/A	N/A	8.60	8.61	10		12/21/2022 04:39
13C7 PFUdA	N/A	N/A	9.14	9.16	21		12/21/2022 04:39
13C2 PFDoA	N/A	N/A	9.83	9.85	10		12/21/2022 04:39
13C2 PFTeDA	N/A	N/A	11.18	11.21	10		12/21/2022 04:39
13C3 HFPO-DA	N/A	N/A	6.02	6.03	22		12/21/2022 04:39
d7-N-MeFOSE	N/A	N/A	12.52	12.54	45		12/21/2022 04:39
d9-N-EtFOSE	N/A	N/A	12.99	13.00	31		12/21/2022 04:39
d3-N-MeFOSA	N/A	N/A	12.73	12.73	81		12/21/2022 04:39
d5-N-EtFOSA	N/A	N/A	13.14	13.15	77		12/21/2022 04:39

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB18-24-0
 Lab Sample ID 10635405016
 Lab File ID B221220C_025
 Matrix Solid
 Collected 11/28/2022 14:50
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.13g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.19	4.20	ND		12/21/2022 04:39
PFPeA	N/A	N/A	5.05	5.06	ND		12/21/2022 04:39
HFPO-DA	0.33	0.34	6.04	6.04	ND		12/21/2022 04:39
PFBS	0.00	0.40	0.00	6.03	ND		12/21/2022 04:39
PFHxA	0.18	0.07	5.76	5.76	ND		12/21/2022 04:39
4:2 FTS	0.00	0.76	0.00	5.50	ND		12/21/2022 04:39
PFPeS	0.00	0.43	0.00	6.83	ND		12/21/2022 04:39
PFHpA	0.23	0.31	6.43	6.46	ND		12/21/2022 04:39
DONA	0.00	0.59	0.00	6.70	ND		12/21/2022 04:39
PFHxS	0.41	0.37	7.54	7.58	ND		12/21/2022 04:39
PFOA	0.37	0.37	7.10	7.11	ND		12/21/2022 04:39
6:2 FTS	1.10	0.93	6.76	6.76	ND		12/21/2022 04:39
PFHpS	0.00	0.48	0.00	8.27	ND		12/21/2022 04:39
PFNA	0.15	0.18	7.77	7.79	ND		12/21/2022 04:39
PFOSAm	N/A	N/A	10.61	10.71	ND		12/21/2022 04:39
PFOS	0.41	0.41	8.97	9.11	29	J	12/21/2022 04:39
MeFOSA	0.85	0.54	12.75	12.78	ND		12/21/2022 04:39
PFDA	0.15	0.16	8.46	8.53	ND		12/21/2022 04:39
EtFOSAm	0.00	0.48	0.00	13.20	ND		12/21/2022 04:39
8:2 FTS	0.00	1.00	0.00	8.13	ND		12/21/2022 04:39
9-Cl-PF3ON	0.00	0.07	0.00	9.49	ND		12/21/2022 04:39
PFNS	0.00	0.44	0.00	9.68	ND		12/21/2022 04:39
PFUnDA	0.14	0.14	9.14	9.17	ND		12/21/2022 04:39
NMeFOSAA	0.71	0.77	8.31	8.32	ND		12/21/2022 04:39
NEtFOSAA	0.00	0.64	0.00	8.62	ND		12/21/2022 04:39
PFDS	0.29	0.32	10.34	10.37	ND		12/21/2022 04:39
PFDOA	0.19	0.19	9.84	9.86	ND		12/21/2022 04:39
MeFOSE	N/A	N/A	12.56	12.59	ND		12/21/2022 04:39
EtFOSE	0.00	0.00	13.03	13.04	ND		12/21/2022 04:39
11-Cl-PF3OUdS	0.00	0.02	0.00	10.86	ND		12/21/2022 04:39
PFTTrDA	0.16	0.17	10.52	10.54	ND		12/21/2022 04:39
PFDoS	0.46	0.46	11.61	11.64	ND		12/21/2022 04:39
PFTDA	0.25	0.25	11.19	11.21	ND		12/21/2022 04:39

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB19-24-0
 Lab Sample ID 10635405017
 Lab File ID B221220C_026
 Matrix Solid
 Collected 11/28/2022 16:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.28g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.095	0.027	0.027	1	375-22-4		12/21/2022 04:59
PFPeA	ND	0.095	0.027	0.027	1	2706-90-3		12/21/2022 04:59
HFPO-DA	ND	0.095	0.026	0.026	1	13252-13-6		12/21/2022 04:59
PFBS	ND	0.084	0.025	0.025	1	375-73-5		12/21/2022 04:59
PFHxA	ND	0.095	0.026	0.026	1	307-24-4		12/21/2022 04:59
4:2 FTS	ND	0.089	0.022	0.022	1	757124-72-4		12/21/2022 04:59
PFPeS	ND	0.089	0.023	0.023	1	2706-91-4		12/21/2022 04:59
PFHpA	ND	0.095	0.033	0.033	1	375-85-9		12/21/2022 04:59
DONA	ND	0.090	0.034	0.034	1	919005-14-4		12/21/2022 04:59
PFHxS	ND	0.086	0.021	0.021	1	355-46-4		12/21/2022 04:59
PFOA	ND	0.095	0.029	0.029	1	335-67-1		12/21/2022 04:59
6:2 FTS	ND	0.090	0.039	0.039	1	27619-97-2		12/21/2022 04:59
PFHpS	ND	0.090	0.026	0.026	1	375-92-8		12/21/2022 04:59
PFNA	ND	0.095	0.029	0.029	1	375-95-1		12/21/2022 04:59
PFOSAm	ND	0.095	0.028	0.028	1	754-91-6		12/21/2022 04:59
PFOS	ND	0.088	0.028	0.028	1	1763-23-1		12/21/2022 04:59
MeFOSA	ND	0.095	0.026	0.026	1	31506-32-8		12/21/2022 04:59
PFDA	ND	0.095	0.022	0.022	1	335-76-2		12/21/2022 04:59
EtFOSAm	ND	0.095	0.024	0.024	1	4151-50-2		12/21/2022 04:59
8:2 FTS	ND	0.091	0.042	0.042	1	39108-34-4		12/21/2022 04:59
9-CI-PF3ON	ND	0.088	0.024	0.024	1	756426-58-1		12/21/2022 04:59
PFNS	ND	0.091	0.033	0.033	1	68259-12-1		12/21/2022 04:59
PFUnDA	ND	0.095	0.029	0.029	1	2058-94-8		12/21/2022 04:59
NMeFOSAA	ND	0.095	0.027	0.027	1	2355-31-9		12/21/2022 04:59
NEtFOSAA	ND	0.095	0.038	0.038	1	2991-50-6		12/21/2022 04:59
PFDS	ND	0.091	0.027	0.027	1	335-77-3		12/21/2022 04:59
PFDOA	ND	0.095	0.031	0.031	1	307-55-1		12/21/2022 04:59
MeFOSE	ND	0.095	0.029	0.029	1	24448-09-7		12/21/2022 04:59
EtFOSE	ND	0.095	0.031	0.031	1	1691-99-2		12/21/2022 04:59
11-CI-PF3OUdS	ND	0.089	0.024	0.024	1	763051-92-9		12/21/2022 04:59
PFTTrDA	ND	0.095	0.030	0.030	1	72629-94-8		12/21/2022 04:59
PFDoS	ND	0.092	0.025	0.025	1	79780-39-5		12/21/2022 04:59
PFTDA	ND	0.095	0.032	0.032	1	376-06-7		12/21/2022 04:59

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB19-24-0
 Lab Sample ID 10635405017
 Lab File ID B221220C_026
 Matrix Solid
 Collected 11/28/2022 16:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.28g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.95	0.70	73	25-150		12/21/2022 04:59
13C5 PFPeA	0.95	0.70	74	25-150		12/21/2022 04:59
13C3 PFBS	0.88	0.63	71	25-150		12/21/2022 04:59
13C2 4:2FTS	0.89	0.60	68	25-150		12/21/2022 04:59
13C5 PFHxA	0.95	0.72	76	25-150		12/21/2022 04:59
13C4 PFHpA	0.95	0.68	72	25-150		12/21/2022 04:59
13C3 PFHxS	0.90	0.63	70	25-150		12/21/2022 04:59
13C2 6:2FTS	0.90	0.66	73	25-150		12/21/2022 04:59
13C8 PFOA	0.95	0.70	74	25-150		12/21/2022 04:59
13C9 PFNA	0.95	0.70	74	25-150		12/21/2022 04:59
13C8 PFOS	0.91	0.65	71	25-150		12/21/2022 04:59
13C2 8:2FTS	0.91	0.73	80	25-150		12/21/2022 04:59
13C6 PFDA	0.95	0.76	80	25-150		12/21/2022 04:59
d3-MeFOSAA	0.95	0.60	64	25-150		12/21/2022 04:59
13C8 PFOSA	0.95	0.62	65	25-150		12/21/2022 04:59
d5-EtFOSAA	0.95	0.59	62	25-150		12/21/2022 04:59
13C7 PFUdA	0.95	0.69	73	25-150		12/21/2022 04:59
13C2 PFDoA	0.95	0.66	70	25-150		12/21/2022 04:59
13C2 PFTeDA	0.95	0.62	66	25-150		12/21/2022 04:59
13C3 HFPO-DA	0.95	0.73	77	25-150		12/21/2022 04:59
d7-N-MeFOSE	0.95	0.56	59	10-150		12/21/2022 04:59
d9-N-EtFOSE	0.95	0.59	62	10-150		12/21/2022 04:59
d3-N-MeFOSA	0.95	0.55	58	10-150		12/21/2022 04:59
d5-N-EtFOSA	0.95	0.57	61	10-150		12/21/2022 04:59

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB19-24-0
 Lab Sample ID 10635405017
 Lab File ID B221220C_026
 Matrix Solid
 Collected 11/28/2022 16:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.28g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.18	4.20	19		12/21/2022 04:59
13C5 PFPeA	N/A	N/A	5.05	5.06	27		12/21/2022 04:59
13C3 PFBS	N/A	N/A	6.01	6.05	22		12/21/2022 04:59
13C2 4:2FTS	N/A	N/A	5.46	5.50	68		12/21/2022 04:59
13C5 PFHxA	N/A	N/A	5.74	5.78	18		12/21/2022 04:59
13C4 PFHpA	N/A	N/A	6.42	6.45	16		12/21/2022 04:59
13C3 PFHxS	N/A	N/A	7.53	7.58	21		12/21/2022 04:59
13C2 6:2FTS	N/A	N/A	6.75	6.77	75		12/21/2022 04:59
13C8 PFOA	N/A	N/A	7.10	7.13	23		12/21/2022 04:59
13C9 PFNA	N/A	N/A	7.77	7.78	22		12/21/2022 04:59
13C8 PFOS	N/A	N/A	8.96	8.98	17		12/21/2022 04:59
13C2 8:2FTS	N/A	N/A	8.06	8.07	12		12/21/2022 04:59
13C6 PFDA	N/A	N/A	8.45	8.46	11		12/21/2022 04:59
d3-MeFOSAA	N/A	N/A	8.30	8.31	12		12/21/2022 04:59
13C8 PFOSA	N/A	N/A	10.60	10.62	12		12/21/2022 04:59
d5-EtFOSAA	N/A	N/A	8.60	8.61	10		12/21/2022 04:59
13C7 PFUdA	N/A	N/A	9.14	9.16	22		12/21/2022 04:59
13C2 PFDoA	N/A	N/A	9.84	9.85	11		12/21/2022 04:59
13C2 PFTeDA	N/A	N/A	11.18	11.21	11		12/21/2022 04:59
13C3 HFPO-DA	N/A	N/A	6.02	6.03	17		12/21/2022 04:59
d7-N-MeFOSE	N/A	N/A	12.52	12.54	41		12/21/2022 04:59
d9-N-EtFOSE	N/A	N/A	12.99	13.00	28		12/21/2022 04:59
d3-N-MeFOSA	N/A	N/A	12.72	12.73	91		12/21/2022 04:59
d5-N-EtFOSA	N/A	N/A	13.14	13.15	74		12/21/2022 04:59

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB19-24-0
 Lab Sample ID 10635405017
 Lab File ID B221220C_026
 Matrix Solid
 Collected 11/28/2022 16:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.28g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.19	4.20	ND		12/21/2022 04:59
PFPeA	N/A	N/A	5.05	5.06	ND		12/21/2022 04:59
HFPO-DA	0.44	0.34	6.03	6.04	ND		12/21/2022 04:59
PFBS	0.46	0.40	6.02	6.03	ND		12/21/2022 04:59
PFHxA	0.00	0.07	0.00	5.76	ND		12/21/2022 04:59
4:2 FTS	0.00	0.76	0.00	5.50	ND		12/21/2022 04:59
PFPeS	0.00	0.43	0.00	6.83	ND		12/21/2022 04:59
PFHpA	0.17	0.31	6.43	6.46	ND		12/21/2022 04:59
DONA	0.00	0.59	0.00	6.70	ND		12/21/2022 04:59
PFHxS	0.40	0.37	7.53	7.58	ND		12/21/2022 04:59
PFOA	0.15	0.37	7.10	7.11	ND		12/21/2022 04:59
6:2 FTS	0.00	0.93	0.00	6.76	ND		12/21/2022 04:59
PFHpS	0.00	0.48	0.00	8.27	ND		12/21/2022 04:59
PFNA	0.14	0.18	7.77	7.79	ND		12/21/2022 04:59
PFOSAm	N/A	N/A	10.61	10.71	ND		12/21/2022 04:59
PFOS	0.37	0.41	8.97	9.11	ND		12/21/2022 04:59
MeFOSA	0.00	0.54	0.00	12.78	ND		12/21/2022 04:59
PFDA	0.00	0.16	0.00	8.53	ND		12/21/2022 04:59
EtFOSAm	0.00	0.48	0.00	13.20	ND		12/21/2022 04:59
8:2 FTS	0.00	1.00	0.00	8.13	ND		12/21/2022 04:59
9-Cl-PF3ON	0.00	0.07	0.00	9.49	ND		12/21/2022 04:59
PFNS	0.00	0.44	0.00	9.68	ND		12/21/2022 04:59
PFUnDA	0.08	0.14	9.15	9.17	ND		12/21/2022 04:59
NMeFOSAA	0.00	0.77	0.00	8.32	ND		12/21/2022 04:59
NEtFOSAA	0.00	0.64	0.00	8.62	ND		12/21/2022 04:59
PFDS	0.00	0.32	0.00	10.37	ND		12/21/2022 04:59
PFDOA	0.07	0.19	9.84	9.86	ND		12/21/2022 04:59
MeFOSE	N/A	N/A	0.00	12.59	ND		12/21/2022 04:59
EtFOSE	0.00	0.00	0.00	13.04	ND		12/21/2022 04:59
11-Cl-PF3OUdS	0.00	0.02	0.00	10.86	ND		12/21/2022 04:59
PFTTrDA	0.26	0.17	10.52	10.54	ND		12/21/2022 04:59
PFDoS	0.00	0.46	0.00	11.64	ND		12/21/2022 04:59
PFTDA	0.28	0.25	11.19	11.21	ND		12/21/2022 04:59

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB20-24-0
 Lab Sample ID 10635405018
 Lab File ID B221220C_027
 Matrix Solid
 Collected 11/28/2022 17:50
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.24g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	0.033 J	0.095	0.027	0.027	1	375-22-4		12/21/2022 05:19
PFPeA	ND	0.095	0.027	0.027	1	2706-90-3		12/21/2022 05:19
HFPO-DA	ND	0.095	0.027	0.027	1	13252-13-6		12/21/2022 05:19
PFBS	ND	0.084	0.025	0.025	1	375-73-5		12/21/2022 05:19
PFHxA	ND	0.095	0.026	0.026	1	307-24-4		12/21/2022 05:19
4:2 FTS	ND	0.089	0.022	0.022	1	757124-72-4		12/21/2022 05:19
PFPeS	ND	0.090	0.023	0.023	1	2706-91-4		12/21/2022 05:19
PFHpA	ND	0.095	0.033	0.033	1	375-85-9		12/21/2022 05:19
DONA	ND	0.090	0.035	0.035	1	919005-14-4		12/21/2022 05:19
PFHxS	0.088	0.087	0.021	0.021	1	355-46-4		12/21/2022 05:19
PFOA	ND	0.095	0.030	0.030	1	335-67-1		12/21/2022 05:19
6:2 FTS	ND	0.091	0.039	0.039	1	27619-97-2		12/21/2022 05:19
PFHpS	ND	0.091	0.027	0.027	1	375-92-8		12/21/2022 05:19
PFNA	ND	0.095	0.030	0.030	1	375-95-1		12/21/2022 05:19
PFOSAm	ND	0.095	0.028	0.028	1	754-91-6		12/21/2022 05:19
PFOS	1.7	0.088	0.028	0.028	1	1763-23-1		12/21/2022 05:19
MeFOSA	ND	0.095	0.026	0.026	1	31506-32-8		12/21/2022 05:19
PFDA	ND	0.095	0.022	0.022	1	335-76-2		12/21/2022 05:19
EtFOSAm	ND	0.095	0.024	0.024	1	4151-50-2		12/21/2022 05:19
8:2 FTS	ND	0.092	0.042	0.042	1	39108-34-4		12/21/2022 05:19
9-CI-PF3ON	ND	0.089	0.024	0.024	1	756426-58-1		12/21/2022 05:19
PFNS	ND	0.092	0.033	0.033	1	68259-12-1		12/21/2022 05:19
PFUnDA	ND	0.095	0.029	0.029	1	2058-94-8		12/21/2022 05:19
NMeFOSAA	ND	0.095	0.027	0.027	1	2355-31-9		12/21/2022 05:19
NEtFOSAA	ND	0.095	0.038	0.038	1	2991-50-6		12/21/2022 05:19
PFDS	ND	0.092	0.027	0.027	1	335-77-3		12/21/2022 05:19
PFDOA	ND	0.095	0.031	0.031	1	307-55-1		12/21/2022 05:19
MeFOSE	ND	0.095	0.029	0.029	1	24448-09-7		12/21/2022 05:19
EtFOSE	ND	0.095	0.031	0.031	1	1691-99-2		12/21/2022 05:19
11-CI-PF3OUdS	ND	0.090	0.024	0.024	1	763051-92-9		12/21/2022 05:19
PFTTrDA	ND	0.095	0.030	0.030	1	72629-94-8		12/21/2022 05:19
PFDoS	ND	0.092	0.025	0.025	1	79780-39-5		12/21/2022 05:19
PFTDA	ND	0.095	0.033	0.033	1	376-06-7		12/21/2022 05:19

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB20-24-0
 Lab Sample ID 10635405018
 Lab File ID B221220C_027
 Matrix Solid
 Collected 11/28/2022 17:50
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.24g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.95	0.73	77	25-150		12/21/2022 05:19
13C5 PFPeA	0.95	0.73	77	25-150		12/21/2022 05:19
13C3 PFBS	0.89	0.68	77	25-150		12/21/2022 05:19
13C2 4:2FTS	0.89	0.60	68	25-150		12/21/2022 05:19
13C5 PFHxA	0.95	0.76	80	25-150		12/21/2022 05:19
13C4 PFHpA	0.95	0.75	79	25-150		12/21/2022 05:19
13C3 PFHxS	0.90	0.71	79	25-150		12/21/2022 05:19
13C2 6:2FTS	0.90	0.60	66	25-150		12/21/2022 05:19
13C8 PFOA	0.95	0.69	72	25-150		12/21/2022 05:19
13C9 PFNA	0.95	0.76	79	25-150		12/21/2022 05:19
13C8 PFOS	0.91	0.67	73	25-150		12/21/2022 05:19
13C2 8:2FTS	0.91	0.64	70	25-150		12/21/2022 05:19
13C6 PFDA	0.95	0.83	87	25-150		12/21/2022 05:19
d3-MeFOSAA	0.95	0.68	71	25-150		12/21/2022 05:19
13C8 PFOSA	0.95	0.62	65	25-150		12/21/2022 05:19
d5-EtFOSAA	0.95	0.69	72	25-150		12/21/2022 05:19
13C7 PFUdA	0.95	0.71	75	25-150		12/21/2022 05:19
13C2 PFDoA	0.95	0.67	71	25-150		12/21/2022 05:19
13C2 PFTeDA	0.95	0.67	71	25-150		12/21/2022 05:19
13C3 HFPO-DA	0.95	0.75	79	25-150		12/21/2022 05:19
d7-N-MeFOSE	0.95	0.60	63	10-150		12/21/2022 05:19
d9-N-EtFOSE	0.95	0.69	73	10-150		12/21/2022 05:19
d3-N-MeFOSA	0.95	0.55	58	10-150		12/21/2022 05:19
d5-N-EtFOSA	0.95	0.61	64	10-150		12/21/2022 05:19

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB20-24-0
 Lab Sample ID 10635405018
 Lab File ID B221220C_027
 Matrix Solid
 Collected 11/28/2022 17:50
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.24g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.18	4.20	21		12/21/2022 05:19
13C5 PFPeA	N/A	N/A	5.05	5.06	29		12/21/2022 05:19
13C3 PFBS	N/A	N/A	6.02	6.05	34		12/21/2022 05:19
13C2 4:2FTS	N/A	N/A	5.46	5.50	80		12/21/2022 05:19
13C5 PFHxA	N/A	N/A	5.75	5.78	17		12/21/2022 05:19
13C4 PFHpA	N/A	N/A	6.43	6.45	21		12/21/2022 05:19
13C3 PFHxS	N/A	N/A	7.53	7.58	36		12/21/2022 05:19
13C2 6:2FTS	N/A	N/A	6.75	6.77	12		12/21/2022 05:19
13C8 PFOA	N/A	N/A	7.10	7.13	23		12/21/2022 05:19
13C9 PFNA	N/A	N/A	7.77	7.78	22		12/21/2022 05:19
13C8 PFOS	N/A	N/A	8.96	8.98	20		12/21/2022 05:19
13C2 8:2FTS	N/A	N/A	8.06	8.07	21		12/21/2022 05:19
13C6 PFDA	N/A	N/A	8.46	8.46	11		12/21/2022 05:19
d3-MeFOSAA	N/A	N/A	8.30	8.31	19		12/21/2022 05:19
13C8 PFOSA	N/A	N/A	10.61	10.62	12		12/21/2022 05:19
d5-EtFOSAA	N/A	N/A	8.61	8.61	13		12/21/2022 05:19
13C7 PFUdA	N/A	N/A	9.15	9.16	17		12/21/2022 05:19
13C2 PFDoA	N/A	N/A	9.85	9.85	11		12/21/2022 05:19
13C2 PFTeDA	N/A	N/A	11.18	11.21	13		12/21/2022 05:19
13C3 HFPO-DA	N/A	N/A	6.02	6.03	25		12/21/2022 05:19
d7-N-MeFOSE	N/A	N/A	12.52	12.54	42		12/21/2022 05:19
d9-N-EtFOSE	N/A	N/A	12.98	13.00	32		12/21/2022 05:19
d3-N-MeFOSA	N/A	N/A	12.72	12.73	59		12/21/2022 05:19
d5-N-EtFOSA	N/A	N/A	13.13	13.15	77		12/21/2022 05:19

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 Lab File ID B221220C_027
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Total Amount Extracted 5.24g
 Ical ID 221219A02
 CCal File B221220C_017
 Ending CCal File B221220C_028
 Blank File B221220C_007

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.19	4.20	92	J	12/21/2022 05:19
PFPeA	N/A	N/A	5.05	5.06	ND		12/21/2022 05:19
HFPO-DA	0.44	0.34	6.04	6.04	ND		12/21/2022 05:19
PFBS	0.58	0.40	6.02	6.03	ND		12/21/2022 05:19
PFHxA	0.09	0.07	5.75	5.76	ND		12/21/2022 05:19
4:2 FTS	0.00	0.76	0.00	5.50	ND		12/21/2022 05:19
PFPeS	0.42	0.43	6.81	6.83	ND		12/21/2022 05:19
PFHpA	0.29	0.31	6.43	6.46	ND		12/21/2022 05:19
DONA	0.00	0.59	0.00	6.70	ND		12/21/2022 05:19
PFHxS	0.37	0.37	7.54	7.58	88		12/21/2022 05:19
PFOA	0.30	0.37	7.10	7.11	ND		12/21/2022 05:19
6:2 FTS	0.98	0.93	6.74	6.76	ND		12/21/2022 05:19
PFHpS	0.44	0.48	8.26	8.27	ND		12/21/2022 05:19
PFNA	0.11	0.18	7.77	7.79	ND		12/21/2022 05:19
PFOSAm	N/A	N/A	10.62	10.71	ND		12/21/2022 05:19
PFOS	0.41	0.41	8.97	9.11	79		12/21/2022 05:19
MeFOSA	0.00	0.54	0.00	12.78	ND		12/21/2022 05:19
PFDA	0.14	0.16	8.46	8.53	ND		12/21/2022 05:19
EtFOSAm	0.00	0.48	0.00	13.20	ND		12/21/2022 05:19
8:2 FTS	1.90	1.00	8.31	8.13	ND		12/21/2022 05:19
9-Cl-PF3ON	0.00	0.07	0.00	9.49	ND		12/21/2022 05:19
PFNS	0.46	0.44	9.67	9.68	ND		12/21/2022 05:19
PFUnDA	0.12	0.14	9.15	9.17	ND		12/21/2022 05:19
NMeFOSAA	0.00	0.77	0.00	8.32	ND		12/21/2022 05:19
NEtFOSAA	0.00	0.64	0.00	8.62	ND		12/21/2022 05:19
PFDS	0.38	0.32	10.35	10.37	ND		12/21/2022 05:19
PFDOA	0.16	0.19	9.84	9.86	ND		12/21/2022 05:19
MeFOSE	N/A	N/A	0.00	12.59	ND		12/21/2022 05:19
EtFOSE	0.00	0.00	0.00	13.04	ND		12/21/2022 05:19
11-Cl-PF3OUdS	0.00	0.02	0.00	10.86	ND		12/21/2022 05:19
PFTTrDA	0.00	0.17	0.00	10.54	ND		12/21/2022 05:19
PFDoS	0.57	0.46	11.61	11.64	ND		12/21/2022 05:19
PFTDA	0.21	0.25	11.18	11.21	ND		12/21/2022 05:19

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB21-24-0
 Lab Sample ID 10635405019
 Lab File ID B221220C_029
 Matrix Solid
 Collected 11/29/2022 12:45
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.32g
 Ical ID 221219A02
 CCal File B221220C_028
 Ending CCal File B221220C_033
 Blank File B221220C_007

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.094	0.027	0.027	1	375-22-4		12/21/2022 05:59
PFPeA	ND	0.094	0.027	0.027	1	2706-90-3		12/21/2022 05:59
HFPO-DA	ND	0.094	0.026	0.026	1	13252-13-6		12/21/2022 05:59
PFBS	ND	0.083	0.025	0.025	1	375-73-5		12/21/2022 05:59
PFHxA	ND	0.094	0.026	0.026	1	307-24-4		12/21/2022 05:59
4:2 FTS	ND	0.088	0.022	0.022	1	757124-72-4		12/21/2022 05:59
PFPeS	ND	0.088	0.023	0.023	1	2706-91-4		12/21/2022 05:59
PFHpA	ND	0.094	0.033	0.033	1	375-85-9		12/21/2022 05:59
DONA	ND	0.089	0.034	0.034	1	919005-14-4		12/21/2022 05:59
PFHxS	ND	0.086	0.021	0.021	1	355-46-4		12/21/2022 05:59
PFOA	0.092 J	0.094	0.029	0.029	1	335-67-1		12/21/2022 05:59
6:2 FTS	ND	0.089	0.039	0.039	1	27619-97-2		12/21/2022 05:59
PFHpS	ND	0.089	0.026	0.026	1	375-92-8		12/21/2022 05:59
PFNA	ND	0.094	0.029	0.029	1	375-95-1		12/21/2022 05:59
PFOSAm	ND	0.094	0.028	0.028	1	754-91-6		12/21/2022 05:59
PFOS	ND	0.087	0.028	0.028	1	1763-23-1		12/21/2022 05:59
MeFOSA	ND	0.094	0.026	0.026	1	31506-32-8		12/21/2022 05:59
PFDA	ND	0.094	0.021	0.021	1	335-76-2		12/21/2022 05:59
EtFOSAm	ND	0.094	0.024	0.024	1	4151-50-2		12/21/2022 05:59
8:2 FTS	ND	0.090	0.041	0.041	1	39108-34-4		12/21/2022 05:59
9-CI-PF3ON	ND	0.088	0.024	0.024	1	756426-58-1		12/21/2022 05:59
PFNS	ND	0.090	0.033	0.033	1	68259-12-1		12/21/2022 05:59
PFUnDA	ND	0.094	0.028	0.028	1	2058-94-8		12/21/2022 05:59
NMeFOSAA	ND	0.094	0.026	0.026	1	2355-31-9		12/21/2022 05:59
NEtFOSAA	ND	0.094	0.038	0.038	1	2991-50-6		12/21/2022 05:59
PFDS	ND	0.091	0.027	0.027	1	335-77-3		12/21/2022 05:59
PFDOA	ND	0.094	0.031	0.031	1	307-55-1		12/21/2022 05:59
MeFOSE	ND	0.094	0.029	0.029	1	24448-09-7		12/21/2022 05:59
EtFOSE	ND	0.094	0.030	0.030	1	1691-99-2		12/21/2022 05:59
11-CI-PF3OUdS	ND	0.089	0.024	0.024	1	763051-92-9		12/21/2022 05:59
PFTTrDA	ND	0.094	0.030	0.030	1	72629-94-8		12/21/2022 05:59
PFDoS	ND	0.091	0.025	0.025	1	79780-39-5		12/21/2022 05:59
PFTDA	ND	0.094	0.032	0.032	1	376-06-7		12/21/2022 05:59

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Sample Analysis Summary
 PFAS by Isotope Dilution

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 Lab Sample ID 10635405019
 Lab File ID B221220C_029
 Matrix Solid
 Collected 11/29/2022 12:45
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.32g
 Ical ID 221219A02
 CCal File B221220C_028
 Ending CCal File B221220C_033
 Blank File B221220C_007

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.94	0.63	67	25-150		12/21/2022 05:59
13C5 PFPeA	0.94	0.62	66	25-150		12/21/2022 05:59
13C3 PFBS	0.87	0.62	71	25-150		12/21/2022 05:59
13C2 4:2FTS	0.88	0.65	74	25-150		12/21/2022 05:59
13C5 PFHxA	0.94	0.61	65	25-150		12/21/2022 05:59
13C4 PFHpA	0.94	0.60	64	25-150		12/21/2022 05:59
13C3 PFHxS	0.89	0.61	69	25-150		12/21/2022 05:59
13C2 6:2FTS	0.89	0.63	70	25-150		12/21/2022 05:59
13C8 PFOA	0.94	0.65	69	25-150		12/21/2022 05:59
13C9 PFNA	0.94	0.66	70	25-150		12/21/2022 05:59
13C8 PFOS	0.90	0.60	67	25-150		12/21/2022 05:59
13C2 8:2FTS	0.90	0.58	64	25-150		12/21/2022 05:59
13C6 PFDA	0.94	0.63	67	25-150		12/21/2022 05:59
d3-MeFOSAA	0.94	0.67	71	25-150		12/21/2022 05:59
13C8 PFOSA	0.94	0.60	64	25-150		12/21/2022 05:59
d5-EtFOSAA	0.94	0.62	66	25-150		12/21/2022 05:59
13C7 PFUdA	0.94	0.62	66	25-150		12/21/2022 05:59
13C2 PFDoA	0.94	0.67	71	25-150		12/21/2022 05:59
13C2 PFTeDA	0.94	0.62	66	25-150		12/21/2022 05:59
13C3 HFPO-DA	0.94	0.60	64	25-150		12/21/2022 05:59
d7-N-MeFOSE	0.94	0.63	67	10-150		12/21/2022 05:59
d9-N-EtFOSE	0.94	0.61	65	10-150		12/21/2022 05:59
d3-N-MeFOSA	0.94	0.56	60	10-150		12/21/2022 05:59
d5-N-EtFOSA	0.94	0.52	56	10-150		12/21/2022 05:59

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Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.18	4.20	20		12/21/2022 05:59
13C5 PFPeA	N/A	N/A	5.05	5.06	24		12/21/2022 05:59
13C3 PFBS	N/A	N/A	6.02	6.05	24		12/21/2022 05:59
13C2 4:2FTS	N/A	N/A	5.46	5.50	77		12/21/2022 05:59
13C5 PFHxA	N/A	N/A	5.75	5.78	16		12/21/2022 05:59
13C4 PFHpA	N/A	N/A	6.43	6.45	19		12/21/2022 05:59
13C3 PFHxS	N/A	N/A	7.53	7.58	27		12/21/2022 05:59
13C2 6:2FTS	N/A	N/A	6.75	6.77	27		12/21/2022 05:59
13C8 PFOA	N/A	N/A	7.10	7.13	25		12/21/2022 05:59
13C9 PFNA	N/A	N/A	7.76	7.78	21		12/21/2022 05:59
13C8 PFOS	N/A	N/A	8.96	8.98	20		12/21/2022 05:59
13C2 8:2FTS	N/A	N/A	8.06	8.07	30		12/21/2022 05:59
13C6 PFDA	N/A	N/A	8.45	8.46	11		12/21/2022 05:59
d3-MeFOSAA	N/A	N/A	8.30	8.31	13		12/21/2022 05:59
13C8 PFOSA	N/A	N/A	10.60	10.62	12		12/21/2022 05:59
d5-EtFOSAA	N/A	N/A	8.60	8.61	29		12/21/2022 05:59
13C7 PFUdA	N/A	N/A	9.14	9.16	26		12/21/2022 05:59
13C2 PFDoA	N/A	N/A	9.83	9.85	13		12/21/2022 05:59
13C2 PFTeDA	N/A	N/A	11.18	11.21	13		12/21/2022 05:59
13C3 HFPO-DA	N/A	N/A	6.03	6.03	20		12/21/2022 05:59
d7-N-MeFOSE	N/A	N/A	12.51	12.54	49		12/21/2022 05:59
d9-N-EtFOSE	N/A	N/A	12.98	13.00	40		12/21/2022 05:59
d3-N-MeFOSA	N/A	N/A	12.72	12.73	53		12/21/2022 05:59
d5-N-EtFOSA	N/A	N/A	13.13	13.15	75		12/21/2022 05:59

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Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.19	4.20	ND		12/21/2022 05:59
PFPeA	N/A	N/A	5.05	5.06	ND		12/21/2022 05:59
HFPO-DA	0.37	0.36	6.04	6.04	ND		12/21/2022 05:59
PFBS	0.48	0.41	6.02	6.03	ND		12/21/2022 05:59
PFHxA	0.09	0.09	5.75	5.76	ND		12/21/2022 05:59
4:2 FTS	0.78	0.83	5.46	5.50	ND		12/21/2022 05:59
PFPeS	0.34	0.44	6.81	6.83	ND		12/21/2022 05:59
PFHpA	0.30	0.32	6.43	6.46	ND		12/21/2022 05:59
DONA	0.60	0.59	6.68	6.70	ND		12/21/2022 05:59
PFHxS	0.33	0.39	7.54	7.58	ND		12/21/2022 05:59
PFOA	0.38	0.39	7.10	7.11	86	J	12/21/2022 05:59
6:2 FTS	0.54	0.92	6.75	6.76	ND		12/21/2022 05:59
PFHpS	0.00	0.46	0.00	8.27	ND		12/21/2022 05:59
PFNA	0.12	0.17	7.77	7.79	ND		12/21/2022 05:59
PFOSAm	N/A	N/A	0.00	10.71	ND		12/21/2022 05:59
PFOS	0.35	0.43	8.96	9.11	ND		12/21/2022 05:59
MeFOSA	0.00	0.60	0.00	12.78	ND		12/21/2022 05:59
PFDA	0.00	0.17	0.00	8.53	ND		12/21/2022 05:59
EtFOSAm	0.70	0.51	13.17	13.20	ND		12/21/2022 05:59
8:2 FTS	0.00	0.88	0.00	8.13	ND		12/21/2022 05:59
9-CI-PF3ON	0.00	0.07	0.00	9.49	ND		12/21/2022 05:59
PFNS	0.00	0.46	0.00	9.68	ND		12/21/2022 05:59
PFUnDA	0.00	0.13	0.00	9.17	ND		12/21/2022 05:59
NMeFOSAA	0.00	0.90	0.00	8.32	ND		12/21/2022 05:59
NEtFOSAA	0.00	0.61	0.00	8.62	ND		12/21/2022 05:59
PFDS	0.00	0.33	0.00	10.37	ND		12/21/2022 05:59
PFDOA	0.09	0.17	9.83	9.86	ND		12/21/2022 05:59
MeFOSE	N/A	N/A	0.00	12.59	ND		12/21/2022 05:59
EtFOSE	0.00	0.00	13.02	13.04	ND		12/21/2022 05:59
11-CI-PF3OUdS	0.00	0.02	0.00	10.86	ND		12/21/2022 05:59
PFTTrDA	0.00	0.17	0.00	10.54	ND		12/21/2022 05:59
PFDoS	0.00	0.45	0.00	11.64	ND		12/21/2022 05:59
PFTDA	0.20	0.26	11.19	11.21	ND		12/21/2022 05:59

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB22-24-0
 Lab Sample ID 10635405020
 Lab File ID B221220C_030
 Matrix Solid
 Collected 11/29/2022 16:20
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.03g
 Ical ID 221219A02
 CCal File B221220C_028
 Ending CCal File B221220C_033
 Blank File B221220C_007

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.099	0.028	0.028	1	375-22-4		12/21/2022 06:20
PFPeA	ND	0.099	0.028	0.028	1	2706-90-3		12/21/2022 06:20
HFPO-DA	ND	0.099	0.028	0.028	1	13252-13-6		12/21/2022 06:20
PFBS	ND	0.088	0.026	0.026	1	375-73-5		12/21/2022 06:20
PFHxA	ND	0.099	0.027	0.027	1	307-24-4		12/21/2022 06:20
4:2 FTS	ND	0.093	0.023	0.023	1	757124-72-4		12/21/2022 06:20
PFPeS	ND	0.093	0.024	0.024	1	2706-91-4		12/21/2022 06:20
PFHpA	ND	0.099	0.035	0.035	1	375-85-9		12/21/2022 06:20
DONA	ND	0.094	0.036	0.036	1	919005-14-4		12/21/2022 06:20
PFHxS	0.67	0.090	0.022	0.022	1	355-46-4		12/21/2022 06:20
PFOA	0.039 J	0.099	0.031	0.031	1	335-67-1		12/21/2022 06:20
6:2 FTS	ND	0.094	0.041	0.041	1	27619-97-2		12/21/2022 06:20
PFHpS	0.081 J	0.094	0.028	0.028	1	375-92-8		12/21/2022 06:20
PFNA	ND	0.099	0.031	0.031	1	375-95-1		12/21/2022 06:20
PFOSAm	ND	0.099	0.029	0.029	1	754-91-6		12/21/2022 06:20
PFOS	18 D	0.92	0.29	0.29	10	1763-23-1		12/21/2022 14:20
MeFOSA	ND	0.099	0.027	0.027	1	31506-32-8		12/21/2022 06:20
PFDA	ND	0.099	0.023	0.023	1	335-76-2		12/21/2022 06:20
EtFOSAm	ND	0.099	0.025	0.025	1	4151-50-2		12/21/2022 06:20
8:2 FTS	ND	0.095	0.044	0.044	1	39108-34-4		12/21/2022 06:20
9-CI-PF3ON	ND	0.093	0.025	0.025	1	756426-58-1		12/21/2022 06:20
PFNS	ND	0.095	0.035	0.035	1	68259-12-1		12/21/2022 06:20
PFUnDA	ND	0.099	0.030	0.030	1	2058-94-8		12/21/2022 06:20
NMeFOSAA	ND	0.099	0.028	0.028	1	2355-31-9		12/21/2022 06:20
NEtFOSAA	ND	0.099	0.040	0.040	1	2991-50-6		12/21/2022 06:20
PFDS	ND	0.096	0.028	0.028	1	335-77-3		12/21/2022 06:20
PFDOA	ND	0.099	0.033	0.033	1	307-55-1		12/21/2022 06:20
MeFOSE	ND	0.099	0.030	0.030	1	24448-09-7		12/21/2022 06:20
EtFOSE	ND	0.099	0.032	0.032	1	1691-99-2		12/21/2022 06:20
11-CI-PF3OUdS	ND	0.094	0.025	0.025	1	763051-92-9		12/21/2022 06:20
PFTTrDA	ND	0.099	0.032	0.032	1	72629-94-8		12/21/2022 06:20
PFDoS	ND	0.096	0.026	0.026	1	79780-39-5		12/21/2022 06:20
PFTDA	ND	0.099	0.034	0.034	1	376-06-7		12/21/2022 06:20

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB22-24-0
 Lab Sample ID 10635405020
 Lab File ID B221220C_030
 Matrix Solid
 Collected 11/29/2022 16:20
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.03g
 Ical ID 221219A02
 CCal File B221220C_028
 Ending CCal File B221220C_033
 Blank File B221220C_007

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.99	0.79	79	25-150		12/21/2022 06:20
13C5 PFPeA	0.99	0.78	79	25-150		12/21/2022 06:20
13C3 PFBS	0.92	0.74	80	25-150		12/21/2022 06:20
13C2 4:2FTS	0.93	0.79	85	25-150		12/21/2022 06:20
13C5 PFHxA	0.99	0.77	77	25-150		12/21/2022 06:20
13C4 PFHpA	0.99	0.74	74	25-150		12/21/2022 06:20
13C3 PFHxS	0.94	0.72	77	25-150		12/21/2022 06:20
13C2 6:2FTS	0.94	0.75	79	25-150		12/21/2022 06:20
13C8 PFOA	0.99	0.81	82	25-150		12/21/2022 06:20
13C9 PFNA	0.99	0.77	78	25-150		12/21/2022 06:20
13C8 PFOS	0.95	1.1	114	25-150	D	12/21/2022 14:20
13C2 8:2FTS	0.95	0.70	73	25-150		12/21/2022 06:20
13C6 PFDA	0.99	0.79	79	25-150		12/21/2022 06:20
d3-MeFOSAA	0.99	0.90	90	25-150		12/21/2022 06:20
13C8 PFOSA	0.99	0.76	77	25-150		12/21/2022 06:20
d5-EtFOSAA	0.99	0.78	78	25-150		12/21/2022 06:20
13C7 PFUdA	0.99	0.74	74	25-150		12/21/2022 06:20
13C2 PFDoA	0.99	0.80	80	25-150		12/21/2022 06:20
13C2 PFTeDA	0.99	0.77	78	25-150		12/21/2022 06:20
13C3 HFPO-DA	0.99	0.80	80	25-150		12/21/2022 06:20
d7-N-MeFOSE	0.99	0.74	74	10-150		12/21/2022 06:20
d9-N-EtFOSE	0.99	0.72	73	10-150		12/21/2022 06:20
d3-N-MeFOSA	0.99	0.71	71	10-150		12/21/2022 06:20
d5-N-EtFOSA	0.99	0.65	66	10-150		12/21/2022 06:20

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB22-24-0
 Lab Sample ID 10635405020
 Lab File ID B221220C_030
 Matrix Solid
 Collected 11/29/2022 16:20
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.03g
 Ical ID 221219A02
 CCal File B221220C_028
 Ending CCal File B221220C_033
 Blank File B221220C_007

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.18	4.20	22		12/21/2022 06:20
13C5 PFPeA	N/A	N/A	5.04	5.06	22		12/21/2022 06:20
13C3 PFBS	N/A	N/A	6.01	6.05	28		12/21/2022 06:20
13C2 4:2FTS	N/A	N/A	5.45	5.50	76		12/21/2022 06:20
13C5 PFHxA	N/A	N/A	5.74	5.78	19		12/21/2022 06:20
13C4 PFHpA	N/A	N/A	6.42	6.45	18		12/21/2022 06:20
13C3 PFHxS	N/A	N/A	7.53	7.58	28		12/21/2022 06:20
13C2 6:2FTS	N/A	N/A	6.74	6.77	32		12/21/2022 06:20
13C8 PFOA	N/A	N/A	7.09	7.13	27		12/21/2022 06:20
13C9 PFNA	N/A	N/A	7.76	7.78	20		12/21/2022 06:20
13C8 PFOS	N/A	N/A	8.96	8.98	38	D	12/21/2022 14:20
13C2 8:2FTS	N/A	N/A	8.06	8.07	28		12/21/2022 06:20
13C6 PFDA	N/A	N/A	8.45	8.46	10		12/21/2022 06:20
d3-MeFOSAA	N/A	N/A	8.30	8.31	35		12/21/2022 06:20
13C8 PFOSA	N/A	N/A	10.60	10.62	12		12/21/2022 06:20
d5-EtFOSAA	N/A	N/A	8.60	8.61	11		12/21/2022 06:20
13C7 PFUdA	N/A	N/A	9.14	9.16	22		12/21/2022 06:20
13C2 PFDoA	N/A	N/A	9.83	9.85	13		12/21/2022 06:20
13C2 PFTeDA	N/A	N/A	11.18	11.21	12		12/21/2022 06:20
13C3 HFPO-DA	N/A	N/A	6.02	6.03	20		12/21/2022 06:20
d7-N-MeFOSE	N/A	N/A	12.51	12.54	41		12/21/2022 06:20
d9-N-EtFOSE	N/A	N/A	12.98	13.00	37		12/21/2022 06:20
d3-N-MeFOSA	N/A	N/A	12.72	12.73	55		12/21/2022 06:20
d5-N-EtFOSA	N/A	N/A	13.13	13.15	70		12/21/2022 06:20

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB22-24-0
 Lab Sample ID 10635405020
 Lab File ID B221220C_030
 Matrix Solid
 Collected 11/29/2022 16:20
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.03g
 Ical ID 221219A02
 CCal File B221220C_028
 Ending CCal File B221220C_033
 Blank File B221220C_007

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.19	4.20	ND		12/21/2022 06:20
PFPeA	N/A	N/A	5.05	5.06	ND		12/21/2022 06:20
HFPO-DA	0.36	0.36	6.03	6.04	ND		12/21/2022 06:20
PFBS	0.57	0.41	6.01	6.03	ND		12/21/2022 06:20
PFHxA	0.06	0.09	5.75	5.76	ND		12/21/2022 06:20
4:2 FTS	0.00	0.83	0.00	5.50	ND		12/21/2022 06:20
PFPeS	0.48	0.44	6.80	6.83	ND		12/21/2022 06:20
PFHpA	0.22	0.32	6.42	6.46	ND		12/21/2022 06:20
DONA	0.53	0.59	6.67	6.70	ND		12/21/2022 06:20
PFHxS	0.35	0.39	7.53	7.58	28		12/21/2022 06:20
PFOA	0.31	0.39	7.10	7.11	66	J	12/21/2022 06:20
6:2 FTS	0.00	0.92	0.00	6.76	ND		12/21/2022 06:20
PFHpS	0.55	0.46	8.26	8.27	56	J	12/21/2022 06:20
PFNA	0.18	0.17	7.77	7.79	ND		12/21/2022 06:20
PFOSAm	N/A	N/A	10.60	10.71	ND		12/21/2022 06:20
PFOS	0.45	0.36	8.97	8.99	44	D	12/21/2022 14:20
MeFOSA	0.00	0.60	0.00	12.78	ND		12/21/2022 06:20
PFDA	0.14	0.17	8.46	8.53	ND		12/21/2022 06:20
EtFOSAm	0.00	0.51	0.00	13.20	ND		12/21/2022 06:20
8:2 FTS	0.00	0.88	0.00	8.13	ND		12/21/2022 06:20
9-CI-PF3ON	0.00	0.07	0.00	9.49	ND		12/21/2022 06:20
PFNS	0.34	0.46	9.66	9.68	ND		12/21/2022 06:20
PFUnDA	0.00	0.13	0.00	9.17	ND		12/21/2022 06:20
NMeFOSAA	0.00	0.90	0.00	8.32	ND		12/21/2022 06:20
NEtFOSAA	0.00	0.61	0.00	8.62	ND		12/21/2022 06:20
PFDS	0.51	0.33	10.34	10.37	ND		12/21/2022 06:20
PFDOA	0.15	0.17	9.84	9.86	ND		12/21/2022 06:20
MeFOSE	N/A	N/A	0.00	12.59	ND		12/21/2022 06:20
EtFOSE	0.00	0.00	0.00	13.04	ND		12/21/2022 06:20
11-CI-PF3OUdS	0.00	0.02	0.00	10.86	ND		12/21/2022 06:20
PFTTrDA	0.00	0.17	0.00	10.54	ND		12/21/2022 06:20
PFDoS	0.59	0.45	11.60	11.64	ND		12/21/2022 06:20
PFTDA	0.15	0.26	11.19	11.21	ND		12/21/2022 06:20

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-DB1-0
 Lab Sample ID 10635405021
 Lab File ID B221222A_006
 Matrix Solid
 Collected 11/28/2022 00:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 09:14

Total Amount Extracted 5.05g
 Ical ID 221219A02
 CCal File B221222A_002
 Ending CCal File B221222A_014
 Blank File B221222A_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	0.30	0.099	0.028	0.028	1	375-22-4		12/22/2022 06:01
PFPeA	ND	0.099	0.028	0.028	1	2706-90-3		12/22/2022 06:01
HFPO-DA	ND	0.099	0.028	0.028	1	13252-13-6		12/22/2022 06:01
PFBS	ND	0.088	0.026	0.026	1	375-73-5		12/22/2022 06:01
PFHxA	ND	0.099	0.027	0.027	1	307-24-4		12/22/2022 06:01
4:2 FTS	ND	0.093	0.023	0.023	1	757124-72-4		12/22/2022 06:01
PFPeS	ND	0.093	0.024	0.024	1	2706-91-4		12/22/2022 06:01
PFHpA	ND	0.099	0.034	0.034	1	375-85-9		12/22/2022 06:01
DONA	ND	0.094	0.036	0.036	1	919005-14-4		12/22/2022 06:01
PFHxS	ND	0.090	0.022	0.022	1	355-46-4		12/22/2022 06:01
PFOA	ND	0.099	0.031	0.031	1	335-67-1		12/22/2022 06:01
6:2 FTS	ND	0.094	0.041	0.041	1	27619-97-2		12/22/2022 06:01
PFHpS	ND	0.094	0.028	0.028	1	375-92-8		12/22/2022 06:01
PFNA	ND	0.099	0.031	0.031	1	375-95-1		12/22/2022 06:01
PFOSAm	ND	0.099	0.029	0.029	1	754-91-6		12/22/2022 06:01
PFOS	0.048 J	0.092	0.029	0.029	1	1763-23-1		12/22/2022 06:01
MeFOSA	ND	0.099	0.027	0.027	1	31506-32-8		12/22/2022 06:01
PFDA	ND	0.099	0.023	0.023	1	335-76-2		12/22/2022 06:01
EtFOSAm	ND	0.099	0.025	0.025	1	4151-50-2		12/22/2022 06:01
8:2 FTS	ND	0.095	0.043	0.043	1	39108-34-4		12/22/2022 06:01
9-CI-PF3ON	ND	0.092	0.025	0.025	1	756426-58-1		12/22/2022 06:01
PFNS	ND	0.095	0.034	0.034	1	68259-12-1		12/22/2022 06:01
PFUnDA	ND	0.099	0.030	0.030	1	2058-94-8		12/22/2022 06:01
NMeFOSAA	ND	0.099	0.028	0.028	1	2355-31-9		12/22/2022 06:01
NEtFOSAA	ND	0.099	0.040	0.040	1	2991-50-6		12/22/2022 06:01
PFDS	ND	0.095	0.028	0.028	1	335-77-3		12/22/2022 06:01
PFDOA	ND	0.099	0.033	0.033	1	307-55-1		12/22/2022 06:01
MeFOSE	ND	0.099	0.030	0.030	1	24448-09-7		12/22/2022 06:01
EtFOSE	ND	0.099	0.032	0.032	1	1691-99-2		12/22/2022 06:01
11-CI-PF3OUdS	ND	0.093	0.025	0.025	1	763051-92-9		12/22/2022 06:01
PFTTrDA	ND	0.099	0.032	0.032	1	72629-94-8		12/22/2022 06:01
PFDoS	ND	0.096	0.026	0.026	1	79780-39-5		12/22/2022 06:01
PFTDA	ND	0.099	0.034	0.034	1	376-06-7		12/22/2022 06:01

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-DB1-0
 Lab Sample ID 10635405021
 Lab File ID B221222A_006
 Matrix Solid
 Collected 11/28/2022 00:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 09:14

Total Amount Extracted 5.05g
 Ical ID 221219A02
 CCal File B221222A_002
 Ending CCal File B221222A_014
 Blank File B221222A_004

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.99	0.81	82	25-150		12/22/2022 06:01
13C5 PFPeA	0.99	0.80	81	25-150		12/22/2022 06:01
13C3 PFBS	0.92	0.75	82	25-150		12/22/2022 06:01
13C2 4:2FTS	0.93	0.86	93	25-150		12/22/2022 06:01
13C5 PFHxA	0.99	0.78	79	25-150		12/22/2022 06:01
13C4 PFHpA	0.99	0.75	76	25-150		12/22/2022 06:01
13C3 PFHxS	0.94	0.82	88	25-150		12/22/2022 06:01
13C2 6:2FTS	0.94	0.78	83	25-150		12/22/2022 06:01
13C8 PFOA	0.99	0.78	79	25-150		12/22/2022 06:01
13C9 PFNA	0.99	0.85	85	25-150		12/22/2022 06:01
13C8 PFOS	0.95	0.79	83	25-150		12/22/2022 06:01
13C2 8:2FTS	0.95	0.84	88	25-150		12/22/2022 06:01
13C6 PFDA	0.99	0.88	88	25-150		12/22/2022 06:01
d3-MeFOSAA	0.99	0.78	79	25-150		12/22/2022 06:01
13C8 PFOSA	0.99	0.79	80	25-150		12/22/2022 06:01
d5-EtFOSAA	0.99	0.88	89	25-150		12/22/2022 06:01
13C7 PFUdA	0.99	0.91	92	25-150		12/22/2022 06:01
13C2 PFDoA	0.99	0.88	89	25-150		12/22/2022 06:01
13C2 PFTeDA	0.99	0.78	79	25-150		12/22/2022 06:01
13C3 HFPO-DA	0.99	0.80	81	25-150		12/22/2022 06:01
d7-N-MeFOSE	0.99	0.70	71	10-150		12/22/2022 06:01
d9-N-EtFOSE	0.99	0.74	75	10-150		12/22/2022 06:01
d3-N-MeFOSA	0.99	0.71	72	10-150		12/22/2022 06:01
d5-N-EtFOSA	0.99	0.67	68	10-150		12/22/2022 06:01

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-DB1-0
 Lab Sample ID 10635405021
 Lab File ID B221222A_006
 Matrix Solid
 Collected 11/28/2022 00:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 09:14

Total Amount Extracted 5.05g
 Ical ID 221219A02
 CCal File B221222A_002
 Ending CCal File B221222A_014
 Blank File B221222A_004

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.18	4.20	19		12/22/2022 06:01
13C5 PFPeA	N/A	N/A	5.04	5.06	24		12/22/2022 06:01
13C3 PFBS	N/A	N/A	6.00	6.05	19		12/22/2022 06:01
13C2 4:2FTS	N/A	N/A	5.45	5.50	70		12/22/2022 06:01
13C5 PFHxA	N/A	N/A	5.74	5.78	17		12/22/2022 06:01
13C4 PFHpA	N/A	N/A	6.41	6.45	19		12/22/2022 06:01
13C3 PFHxS	N/A	N/A	7.52	7.50	28		12/22/2022 06:01
13C2 6:2FTS	N/A	N/A	6.74	6.77	14		12/22/2022 06:01
13C8 PFOA	N/A	N/A	7.09	7.13	27		12/22/2022 06:01
13C9 PFNA	N/A	N/A	7.76	7.78	20		12/22/2022 06:01
13C8 PFOS	N/A	N/A	8.95	8.98	18		12/22/2022 06:01
13C2 8:2FTS	N/A	N/A	8.05	8.07	26		12/22/2022 06:01
13C6 PFDA	N/A	N/A	8.44	8.46	14		12/22/2022 06:01
d3-MeFOSAA	N/A	N/A	8.30	8.31	20		12/22/2022 06:01
13C8 PFOSA	N/A	N/A	10.59	10.62	11		12/22/2022 06:01
d5-EtFOSAA	N/A	N/A	8.59	8.61	15		12/22/2022 06:01
13C7 PFUdA	N/A	N/A	9.13	9.16	23		12/22/2022 06:01
13C2 PFDoA	N/A	N/A	9.82	9.85	13		12/22/2022 06:01
13C2 PFTeDA	N/A	N/A	11.17	11.21	13		12/22/2022 06:01
13C3 HFPO-DA	N/A	N/A	6.02	6.03	20		12/22/2022 06:01
d7-N-MeFOSE	N/A	N/A	12.52	12.54	45		12/22/2022 06:01
d9-N-EtFOSE	N/A	N/A	12.99	13.00	30		12/22/2022 06:01
d3-N-MeFOSA	N/A	N/A	12.72	12.73	66		12/22/2022 06:01
d5-N-EtFOSA	N/A	N/A	13.14	13.15	72		12/22/2022 06:01

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	MEWI-S-DB1-0	Total Amount Extracted	5.05g
Lab Sample ID	10635405021	Ical ID	221219A02
Lab File ID	B221222A_006	CCal File	B221222A_002
Matrix	Solid	Ending CCal File	B221222A_014
Collected	11/28/2022 00:00	Blank File	B221222A_004
Received	12/01/2022 08:50		
Extraction Date	12/16/2022 09:14		

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.18	4.20	23		12/22/2022 06:01
PFPeA	N/A	N/A	5.05	5.06	ND		12/22/2022 06:01
HFPO-DA	0.55	0.29	6.03	6.04	ND		12/22/2022 06:01
PFBS	0.45	0.42	6.01	6.03	ND		12/22/2022 06:01
PFHxA	0.40	0.08	5.75	5.76	ND		12/22/2022 06:01
4:2 FTS	0.00	0.82	0.00	5.50	ND		12/22/2022 06:01
PFPeS	0.00	0.36	0.00	6.83	ND		12/22/2022 06:01
PFHpA	0.32	0.28	6.42	6.46	ND		12/22/2022 06:01
DONA	0.00	0.52	0.00	6.70	ND		12/22/2022 06:01
PFHxS	0.44	0.36	7.52	7.58	ND		12/22/2022 06:01
PFOA	0.26	0.39	7.09	7.11	ND		12/22/2022 06:01
6:2 FTS	0.00	0.82	0.00	6.76	ND		12/22/2022 06:01
PFHpS	0.00	0.38	0.00	8.27	ND		12/22/2022 06:01
PFNA	0.26	0.15	7.75	7.79	ND		12/22/2022 06:01
PFOSAm	N/A	N/A	10.60	10.71	ND		12/22/2022 06:01
PFOS	0.39	0.39	8.96	9.11	15	J	12/22/2022 06:01
MeFOSA	0.00	0.58	0.00	12.78	ND		12/22/2022 06:01
PFDA	0.00	0.16	0.00	8.53	ND		12/22/2022 06:01
EtFOSAm	0.00	0.48	0.00	13.20	ND		12/22/2022 06:01
8:2 FTS	0.00	0.86	0.00	8.13	ND		12/22/2022 06:01
9-CI-PF3ON	0.00	0.06	0.00	9.49	ND		12/22/2022 06:01
PFNS	0.00	0.47	0.00	9.68	ND		12/22/2022 06:01
PFUnDA	0.00	0.12	0.00	9.17	ND		12/22/2022 06:01
NMeFOSAA	0.00	0.91	0.00	8.32	ND		12/22/2022 06:01
NEtFOSAA	0.00	0.59	0.00	8.62	ND		12/22/2022 06:01
PFDS	0.00	0.29	0.00	10.37	ND		12/22/2022 06:01
PFDOA	0.00	0.16	0.00	9.86	ND		12/22/2022 06:01
MeFOSE	N/A	N/A	0.00	12.59	ND		12/22/2022 06:01
EtFOSE	0.00	0.00	13.03	13.04	ND		12/22/2022 06:01
11-CI-PF3OUdS	0.00	0.02	0.00	10.86	ND		12/22/2022 06:01
PFTTrDA	0.00	0.15	0.00	10.54	ND		12/22/2022 06:01
PFDoS	0.00	0.45	0.00	11.64	ND		12/22/2022 06:01
PFTDA	0.26	0.24	11.19	11.21	ND		12/22/2022 06:01

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-DB2-0
 Lab Sample ID 10635405022
 Lab File ID B221222A_007
 Matrix Solid
 Collected 11/28/2022 00:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 09:14

Total Amount Extracted 5.24g
 Ical ID 221219A02
 CCal File B221222A_002
 Ending CCal File B221222A_014
 Blank File B221222A_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	0.031 J	0.095	0.027	0.027	1	375-22-4		12/22/2022 06:21
PFPeA	ND	0.095	0.027	0.027	1	2706-90-3		12/22/2022 06:21
HFPO-DA	ND	0.095	0.027	0.027	1	13252-13-6		12/22/2022 06:21
PFBS	ND	0.084	0.025	0.025	1	375-73-5		12/22/2022 06:21
PFHxA	ND	0.095	0.026	0.026	1	307-24-4		12/22/2022 06:21
4:2 FTS	ND	0.089	0.022	0.022	1	757124-72-4		12/22/2022 06:21
PFPeS	ND	0.090	0.023	0.023	1	2706-91-4		12/22/2022 06:21
PFHpA	ND	0.095	0.033	0.033	1	375-85-9		12/22/2022 06:21
DONA	ND	0.090	0.035	0.035	1	919005-14-4		12/22/2022 06:21
PFHxS	ND	0.087	0.021	0.021	1	355-46-4		12/22/2022 06:21
PFOA	ND	0.095	0.030	0.030	1	335-67-1		12/22/2022 06:21
6:2 FTS	ND	0.091	0.039	0.039	1	27619-97-2		12/22/2022 06:21
PFHpS	ND	0.091	0.027	0.027	1	375-92-8		12/22/2022 06:21
PFNA	ND	0.095	0.030	0.030	1	375-95-1		12/22/2022 06:21
PFOSAm	ND	0.095	0.028	0.028	1	754-91-6		12/22/2022 06:21
PFOS	0.28	0.088	0.028	0.028	1	1763-23-1		12/22/2022 06:21
MeFOSA	ND	0.095	0.026	0.026	1	31506-32-8		12/22/2022 06:21
PFDA	ND	0.095	0.022	0.022	1	335-76-2		12/22/2022 06:21
EtFOSAm	ND	0.095	0.024	0.024	1	4151-50-2		12/22/2022 06:21
8:2 FTS	ND	0.092	0.042	0.042	1	39108-34-4		12/22/2022 06:21
9-CI-PF3ON	ND	0.089	0.024	0.024	1	756426-58-1		12/22/2022 06:21
PFNS	ND	0.092	0.033	0.033	1	68259-12-1		12/22/2022 06:21
PFUnDA	ND	0.095	0.029	0.029	1	2058-94-8		12/22/2022 06:21
NMeFOSAA	ND	0.095	0.027	0.027	1	2355-31-9		12/22/2022 06:21
NEtFOSAA	ND	0.095	0.038	0.038	1	2991-50-6		12/22/2022 06:21
PFDS	ND	0.092	0.027	0.027	1	335-77-3		12/22/2022 06:21
PFDOA	ND	0.095	0.031	0.031	1	307-55-1		12/22/2022 06:21
MeFOSE	ND	0.095	0.029	0.029	1	24448-09-7		12/22/2022 06:21
EtFOSE	ND	0.095	0.031	0.031	1	1691-99-2		12/22/2022 06:21
11-CI-PF3OUdS	ND	0.090	0.024	0.024	1	763051-92-9		12/22/2022 06:21
PFTTrDA	ND	0.095	0.030	0.030	1	72629-94-8		12/22/2022 06:21
PFDoS	ND	0.092	0.025	0.025	1	79780-39-5		12/22/2022 06:21
PFTDA	ND	0.095	0.033	0.033	1	376-06-7		12/22/2022 06:21

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-DB2-0
 Lab Sample ID 10635405022
 Lab File ID B221222A_007
 Matrix Solid
 Collected 11/28/2022 00:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 09:14

Total Amount Extracted 5.24g
 Ical ID 221219A02
 CCal File B221222A_002
 Ending CCal File B221222A_014
 Blank File B221222A_004

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.95	0.86	90	25-150		12/22/2022 06:21
13C5 PFPeA	0.95	0.84	88	25-150		12/22/2022 06:21
13C3 PFBS	0.89	0.75	85	25-150		12/22/2022 06:21
13C2 4:2FTS	0.89	0.83	93	25-150		12/22/2022 06:21
13C5 PFHxA	0.95	0.82	86	25-150		12/22/2022 06:21
13C4 PFHpA	0.95	0.81	85	25-150		12/22/2022 06:21
13C3 PFHxS	0.90	0.85	94	25-150		12/22/2022 06:21
13C2 6:2FTS	0.90	0.77	85	25-150		12/22/2022 06:21
13C8 PFOA	0.95	0.79	83	25-150		12/22/2022 06:21
13C9 PFNA	0.95	0.90	94	25-150		12/22/2022 06:21
13C8 PFOS	0.91	0.80	87	25-150		12/22/2022 06:21
13C2 8:2FTS	0.91	0.79	87	25-150		12/22/2022 06:21
13C6 PFDA	0.95	0.85	89	25-150		12/22/2022 06:21
d3-MeFOSAA	0.95	0.83	87	25-150		12/22/2022 06:21
13C8 PFOSA	0.95	0.84	88	25-150		12/22/2022 06:21
d5-EtFOSAA	0.95	0.81	85	25-150		12/22/2022 06:21
13C7 PFUdA	0.95	0.93	98	25-150		12/22/2022 06:21
13C2 PFDoA	0.95	0.83	87	25-150		12/22/2022 06:21
13C2 PFTeDA	0.95	0.84	88	25-150		12/22/2022 06:21
13C3 HFPO-DA	0.95	0.85	89	25-150		12/22/2022 06:21
d7-N-MeFOSE	0.95	0.83	87	10-150		12/22/2022 06:21
d9-N-EtFOSE	0.95	0.80	84	10-150		12/22/2022 06:21
d3-N-MeFOSA	0.95	0.80	84	10-150		12/22/2022 06:21
d5-N-EtFOSA	0.95	0.80	84	10-150		12/22/2022 06:21

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	MEWI-S-DB2-0	Total Amount Extracted	5.24g
Lab Sample ID	10635405022	Ical ID	221219A02
Lab File ID	B221222A_007	CCal File	B221222A_002
Matrix	Solid	Ending CCal File	B221222A_014
Collected	11/28/2022 00:00	Blank File	B221222A_004
Received	12/01/2022 08:50		
Extraction Date	12/16/2022 09:14		

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.17	4.20	24		12/22/2022 06:21
13C5 PFPeA	N/A	N/A	5.04	5.06	24		12/22/2022 06:21
13C3 PFBS	N/A	N/A	6.01	6.05	20		12/22/2022 06:21
13C2 4:2FTS	N/A	N/A	5.46	5.50	74		12/22/2022 06:21
13C5 PFHxA	N/A	N/A	5.74	5.78	23		12/22/2022 06:21
13C4 PFHpA	N/A	N/A	6.42	6.45	19		12/22/2022 06:21
13C3 PFHxS	N/A	N/A	7.53	7.50	28		12/22/2022 06:21
13C2 6:2FTS	N/A	N/A	6.74	6.77	10		12/22/2022 06:21
13C8 PFOA	N/A	N/A	7.09	7.13	26		12/22/2022 06:21
13C9 PFNA	N/A	N/A	7.76	7.78	24		12/22/2022 06:21
13C8 PFOS	N/A	N/A	8.95	8.98	11		12/22/2022 06:21
13C2 8:2FTS	N/A	N/A	8.05	8.07	10		12/22/2022 06:21
13C6 PFDA	N/A	N/A	8.44	8.46	13		12/22/2022 06:21
d3-MeFOSAA	N/A	N/A	8.29	8.31	15		12/22/2022 06:21
13C8 PFOSA	N/A	N/A	10.58	10.62	12		12/22/2022 06:21
d5-EtFOSAA	N/A	N/A	8.59	8.61	16		12/22/2022 06:21
13C7 PFUdA	N/A	N/A	9.13	9.16	21		12/22/2022 06:21
13C2 PFDoA	N/A	N/A	9.82	9.85	12		12/22/2022 06:21
13C2 PFTeDA	N/A	N/A	11.17	11.21	14		12/22/2022 06:21
13C3 HFPO-DA	N/A	N/A	6.02	6.03	15		12/22/2022 06:21
d7-N-MeFOSE	N/A	N/A	12.51	12.54	47		12/22/2022 06:21
d9-N-EtFOSE	N/A	N/A	12.98	13.00	35		12/22/2022 06:21
d3-N-MeFOSA	N/A	N/A	12.71	12.73	63		12/22/2022 06:21
d5-N-EtFOSA	N/A	N/A	13.13	13.15	83		12/22/2022 06:21

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-DB2-0
 Lab Sample ID 10635405022
 Lab File ID B221222A_007
 Matrix Solid
 Collected 11/28/2022 00:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 09:14

Total Amount Extracted 5.24g
 Ical ID 221219A02
 CCal File B221222A_002
 Ending CCal File B221222A_014
 Blank File B221222A_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.18	4.20	82	J	12/22/2022 06:21
PFPeA	N/A	N/A	5.05	5.06	ND		12/22/2022 06:21
HFPO-DA	0.40	0.29	6.03	6.04	ND		12/22/2022 06:21
PFBS	0.39	0.42	6.01	6.03	ND		12/22/2022 06:21
PFHxA	0.09	0.08	5.75	5.76	ND		12/22/2022 06:21
4:2 FTS	0.00	0.82	0.00	5.50	ND		12/22/2022 06:21
PFPeS	0.00	0.36	0.00	6.83	ND		12/22/2022 06:21
PFHpA	0.26	0.28	6.43	6.46	ND		12/22/2022 06:21
DONA	0.45	0.52	6.67	6.70	ND		12/22/2022 06:21
PFHxS	0.45	0.36	7.53	7.58	ND		12/22/2022 06:21
PFOA	0.46	0.39	7.10	7.11	ND		12/22/2022 06:21
6:2 FTS	0.00	0.82	0.00	6.76	ND		12/22/2022 06:21
PFHpS	0.00	0.38	0.00	8.27	ND		12/22/2022 06:21
PFNA	0.16	0.15	7.77	7.79	ND		12/22/2022 06:21
PFOSAm	N/A	N/A	10.59	10.71	ND		12/22/2022 06:21
PFOS	0.40	0.39	8.96	9.11	67		12/22/2022 06:21
MeFOSA	0.00	0.58	0.00	12.78	ND		12/22/2022 06:21
PFDA	0.16	0.16	8.45	8.53	ND		12/22/2022 06:21
EtFOSAm	0.00	0.48	0.00	13.20	ND		12/22/2022 06:21
8:2 FTS	0.00	0.86	0.00	8.13	ND		12/22/2022 06:21
9-CI-PF3ON	0.00	0.06	0.00	9.49	ND		12/22/2022 06:21
PFNS	0.28	0.47	9.64	9.68	ND		12/22/2022 06:21
PFUnDA	0.12	0.12	9.14	9.17	ND		12/22/2022 06:21
NMeFOSAA	1.00	0.91	8.29	8.32	ND		12/22/2022 06:21
NEtFOSAA	0.00	0.59	0.00	8.62	ND		12/22/2022 06:21
PFDS	0.38	0.29	10.33	10.37	ND		12/22/2022 06:21
PFDOA	0.16	0.16	9.83	9.86	ND		12/22/2022 06:21
MeFOSE	N/A	N/A	0.00	12.59	ND		12/22/2022 06:21
EtFOSE	0.00	0.00	0.00	13.04	ND		12/22/2022 06:21
11-CI-PF3OUdS	0.00	0.02	0.00	10.86	ND		12/22/2022 06:21
PFTTrDA	0.16	0.15	10.51	10.54	ND		12/22/2022 06:21
PFDoS	0.52	0.45	11.58	11.64	ND		12/22/2022 06:21
PFTDA	0.31	0.24	11.17	11.21	ND		12/22/2022 06:21

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-DB3-0
 Lab Sample ID 10635405023
 Lab File ID B221222A_008
 Matrix Solid
 Collected 11/28/2022 00:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 09:14

Total Amount Extracted 5.23g
 Ical ID 221219A02
 CCal File B221222A_002
 Ending CCal File B221222A_014
 Blank File B221222A_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.096	0.027	0.027	1	375-22-4		12/22/2022 06:41
PFPeA	ND	0.096	0.027	0.027	1	2706-90-3		12/22/2022 06:41
HFPO-DA	ND	0.096	0.027	0.027	1	13252-13-6		12/22/2022 06:41
PFBS	ND	0.085	0.025	0.025	1	375-73-5		12/22/2022 06:41
PFHxA	ND	0.096	0.026	0.026	1	307-24-4		12/22/2022 06:41
4:2 FTS	ND	0.089	0.022	0.022	1	757124-72-4		12/22/2022 06:41
PFPeS	ND	0.090	0.023	0.023	1	2706-91-4		12/22/2022 06:41
PFHpA	ND	0.096	0.033	0.033	1	375-85-9		12/22/2022 06:41
DONA	ND	0.090	0.035	0.035	1	919005-14-4		12/22/2022 06:41
PFHxS	ND	0.087	0.021	0.021	1	355-46-4		12/22/2022 06:41
PFOA	ND	0.096	0.030	0.030	1	335-67-1		12/22/2022 06:41
6:2 FTS	ND	0.091	0.040	0.040	1	27619-97-2		12/22/2022 06:41
PFHpS	ND	0.091	0.027	0.027	1	375-92-8		12/22/2022 06:41
PFNA	ND	0.096	0.030	0.030	1	375-95-1		12/22/2022 06:41
PFOSAm	ND	0.096	0.028	0.028	1	754-91-6		12/22/2022 06:41
PFOS	0.074 J	0.088	0.028	0.028	1	1763-23-1		12/22/2022 06:41
MeFOSA	ND	0.096	0.026	0.026	1	31506-32-8		12/22/2022 06:41
PFDA	ND	0.096	0.022	0.022	1	335-76-2		12/22/2022 06:41
EtFOSAm	ND	0.096	0.024	0.024	1	4151-50-2		12/22/2022 06:41
8:2 FTS	ND	0.092	0.042	0.042	1	39108-34-4		12/22/2022 06:41
9-CI-PF3ON	ND	0.089	0.024	0.024	1	756426-58-1		12/22/2022 06:41
PFNS	ND	0.092	0.033	0.033	1	68259-12-1		12/22/2022 06:41
PFUnDA	ND	0.096	0.029	0.029	1	2058-94-8		12/22/2022 06:41
NMeFOSAA	ND	0.096	0.027	0.027	1	2355-31-9		12/22/2022 06:41
NEtFOSAA	ND	0.096	0.038	0.038	1	2991-50-6		12/22/2022 06:41
PFDS	ND	0.092	0.027	0.027	1	335-77-3		12/22/2022 06:41
PFDOA	ND	0.096	0.031	0.031	1	307-55-1		12/22/2022 06:41
MeFOSE	ND	0.096	0.029	0.029	1	24448-09-7		12/22/2022 06:41
EtFOSE	ND	0.096	0.031	0.031	1	1691-99-2		12/22/2022 06:41
11-CI-PF3OUdS	ND	0.090	0.024	0.024	1	763051-92-9		12/22/2022 06:41
PFTTrDA	ND	0.096	0.030	0.030	1	72629-94-8		12/22/2022 06:41
PFDoS	ND	0.092	0.025	0.025	1	79780-39-5		12/22/2022 06:41
PFTDA	ND	0.096	0.033	0.033	1	376-06-7		12/22/2022 06:41

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-DB3-0
 Lab Sample ID 10635405023
 Lab File ID B221222A_008
 Matrix Solid
 Collected 11/28/2022 00:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 09:14

Total Amount Extracted 5.23g
 Ical ID 221219A02
 CCal File B221222A_002
 Ending CCal File B221222A_014
 Blank File B221222A_004

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.96	0.91	95	25-150		12/22/2022 06:41
13C5 PFPeA	0.96	0.91	96	25-150		12/22/2022 06:41
13C3 PFBS	0.89	0.87	98	25-150		12/22/2022 06:41
13C2 4:2FTS	0.89	0.92	103	25-150		12/22/2022 06:41
13C5 PFHxA	0.96	0.91	96	25-150		12/22/2022 06:41
13C4 PFHpA	0.96	0.89	93	25-150		12/22/2022 06:41
13C3 PFHxS	0.90	0.90	100	25-150		12/22/2022 06:41
13C2 6:2FTS	0.91	0.88	97	25-150		12/22/2022 06:41
13C8 PFOA	0.96	0.84	88	25-150		12/22/2022 06:41
13C9 PFNA	0.96	0.97	102	25-150		12/22/2022 06:41
13C8 PFOS	0.91	0.90	98	25-150		12/22/2022 06:41
13C2 8:2FTS	0.92	0.84	92	25-150		12/22/2022 06:41
13C6 PFDA	0.96	0.98	102	25-150		12/22/2022 06:41
d3-MeFOSAA	0.96	0.82	86	25-150		12/22/2022 06:41
13C8 PFOSA	0.96	0.94	99	25-150		12/22/2022 06:41
d5-EtFOSAA	0.96	0.96	100	25-150		12/22/2022 06:41
13C7 PFUdA	0.96	0.98	103	25-150		12/22/2022 06:41
13C2 PFDoA	0.96	0.94	98	25-150		12/22/2022 06:41
13C2 PFTeDA	0.96	0.87	91	25-150		12/22/2022 06:41
13C3 HFPO-DA	0.96	0.89	93	25-150		12/22/2022 06:41
d7-N-MeFOSE	0.96	0.87	91	10-150		12/22/2022 06:41
d9-N-EtFOSE	0.96	1.0	106	10-150		12/22/2022 06:41
d3-N-MeFOSA	0.96	0.84	88	10-150		12/22/2022 06:41
d5-N-EtFOSA	0.96	0.86	90	10-150		12/22/2022 06:41

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-DB3-0
 Lab Sample ID 10635405023
 Lab File ID B221222A_008
 Matrix Solid
 Collected 11/28/2022 00:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 09:14

Total Amount Extracted 5.23g
 Ical ID 221219A02
 CCal File B221222A_002
 Ending CCal File B221222A_014
 Blank File B221222A_004

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.17	4.20	23		12/22/2022 06:41
13C5 PFPeA	N/A	N/A	5.04	5.06	29		12/22/2022 06:41
13C3 PFBS	N/A	N/A	6.00	6.05	21		12/22/2022 06:41
13C2 4:2FTS	N/A	N/A	5.45	5.50	84		12/22/2022 06:41
13C5 PFHxA	N/A	N/A	5.74	5.78	17		12/22/2022 06:41
13C4 PFHpA	N/A	N/A	6.42	6.45	19		12/22/2022 06:41
13C3 PFHxS	N/A	N/A	7.52	7.50	38		12/22/2022 06:41
13C2 6:2FTS	N/A	N/A	6.74	6.77	24		12/22/2022 06:41
13C8 PFOA	N/A	N/A	7.09	7.13	21		12/22/2022 06:41
13C9 PFNA	N/A	N/A	7.76	7.78	25		12/22/2022 06:41
13C8 PFOS	N/A	N/A	8.94	8.98	23		12/22/2022 06:41
13C2 8:2FTS	N/A	N/A	8.05	8.07	27		12/22/2022 06:41
13C6 PFDA	N/A	N/A	8.44	8.46	12		12/22/2022 06:41
d3-MeFOSAA	N/A	N/A	8.30	8.31	27		12/22/2022 06:41
13C8 PFOSA	N/A	N/A	10.58	10.62	10		12/22/2022 06:41
d5-EtFOSAA	N/A	N/A	8.59	8.61	22		12/22/2022 06:41
13C7 PFUdA	N/A	N/A	9.13	9.16	28		12/22/2022 06:41
13C2 PFDaA	N/A	N/A	9.81	9.85	12		12/22/2022 06:41
13C2 PFTeDA	N/A	N/A	11.16	11.21	10		12/22/2022 06:41
13C3 HFPO-DA	N/A	N/A	6.02	6.03	19		12/22/2022 06:41
d7-N-MeFOSE	N/A	N/A	12.51	12.54	45		12/22/2022 06:41
d9-N-EtFOSE	N/A	N/A	12.98	13.00	43		12/22/2022 06:41
d3-N-MeFOSA	N/A	N/A	12.71	12.73	52		12/22/2022 06:41
d5-N-EtFOSA	N/A	N/A	13.14	13.15	89		12/22/2022 06:41

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-DB3-0
 Lab Sample ID 10635405023
 Lab File ID B221222A_008
 Matrix Solid
 Collected 11/28/2022 00:00
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 09:14

Total Amount Extracted 5.23g
 Ical ID 221219A02
 CCal File B221222A_002
 Ending CCal File B221222A_014
 Blank File B221222A_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.18	4.20	ND		12/22/2022 06:41
PFPeA	N/A	N/A	5.05	5.06	ND		12/22/2022 06:41
HFPO-DA	0.45	0.29	6.03	6.04	ND		12/22/2022 06:41
PFBS	0.68	0.42	6.01	6.03	ND		12/22/2022 06:41
PFHxA	0.08	0.08	5.75	5.76	ND		12/22/2022 06:41
4:2 FTS	0.00	0.82	0.00	5.50	ND		12/22/2022 06:41
PFPeS	0.00	0.36	0.00	6.83	ND		12/22/2022 06:41
PFHpA	0.25	0.28	6.43	6.46	ND		12/22/2022 06:41
DONA	0.00	0.52	0.00	6.70	ND		12/22/2022 06:41
PFHxS	0.45	0.36	7.53	7.58	ND		12/22/2022 06:41
PFOA	0.38	0.39	7.05	7.11	ND		12/22/2022 06:41
6:2 FTS	0.00	0.82	0.00	6.76	ND		12/22/2022 06:41
PFHpS	0.00	0.38	0.00	8.27	ND		12/22/2022 06:41
PFNA	0.20	0.15	7.77	7.79	ND		12/22/2022 06:41
PFOSAm	N/A	N/A	10.58	10.71	ND		12/22/2022 06:41
PFOS	0.48	0.39	8.95	9.11	49	J	12/22/2022 06:41
MeFOSA	0.00	0.58	0.00	12.78	ND		12/22/2022 06:41
PFDA	0.22	0.16	8.45	8.53	ND		12/22/2022 06:41
EtFOSAm	0.00	0.48	0.00	13.20	ND		12/22/2022 06:41
8:2 FTS	0.00	0.86	0.00	8.13	ND		12/22/2022 06:41
9-CI-PF3ON	0.00	0.06	0.00	9.49	ND		12/22/2022 06:41
PFNS	0.00	0.47	0.00	9.68	ND		12/22/2022 06:41
PFUnDA	0.18	0.12	9.13	9.17	ND		12/22/2022 06:41
NMeFOSAA	0.00	0.91	0.00	8.32	ND		12/22/2022 06:41
NEtFOSAA	0.00	0.59	0.00	8.62	ND		12/22/2022 06:41
PFDS	0.00	0.29	0.00	10.37	ND		12/22/2022 06:41
PFDOA	0.13	0.16	9.83	9.86	ND		12/22/2022 06:41
MeFOSE	N/A	N/A	0.00	12.59	ND		12/22/2022 06:41
EtFOSE	0.00	0.00	0.00	13.04	ND		12/22/2022 06:41
11-CI-PF3OUdS	0.00	0.02	0.00	10.86	ND		12/22/2022 06:41
PFTTrDA	0.20	0.15	10.51	10.54	ND		12/22/2022 06:41
PFDoS	0.00	0.45	0.00	11.64	ND		12/22/2022 06:41
PFTDA	0.12	0.24	11.16	11.21	ND		12/22/2022 06:41

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB23-24-0
 Lab Sample ID 10635405024
 Lab File ID B221222A_009
 Matrix Solid
 Collected 11/29/2022 10:30
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 09:14

Total Amount Extracted 5.42g
 Ical ID 221219A02
 CCal File B221222A_002
 Ending CCal File B221222A_014
 Blank File B221222A_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.092	0.026	0.026	1	375-22-4		12/22/2022 07:01
PFPeA	ND	0.092	0.026	0.026	1	2706-90-3		12/22/2022 07:01
HFPO-DA	ND	0.092	0.026	0.026	1	13252-13-6		12/22/2022 07:01
PFBS	ND	0.082	0.024	0.024	1	375-73-5		12/22/2022 07:01
PFHxA	ND	0.092	0.025	0.025	1	307-24-4		12/22/2022 07:01
4:2 FTS	ND	0.086	0.021	0.021	1	757124-72-4		12/22/2022 07:01
PFPeS	ND	0.087	0.022	0.022	1	2706-91-4		12/22/2022 07:01
PFHpA	ND	0.092	0.032	0.032	1	375-85-9		12/22/2022 07:01
DONA	ND	0.087	0.033	0.033	1	919005-14-4		12/22/2022 07:01
PFHxS	ND	0.084	0.020	0.020	1	355-46-4		12/22/2022 07:01
PFOA	ND	0.092	0.029	0.029	1	335-67-1		12/22/2022 07:01
6:2 FTS	ND	0.088	0.038	0.038	1	27619-97-2		12/22/2022 07:01
PFHpS	ND	0.088	0.026	0.026	1	375-92-8		12/22/2022 07:01
PFNA	ND	0.092	0.029	0.029	1	375-95-1		12/22/2022 07:01
PFOSAm	ND	0.092	0.027	0.027	1	754-91-6		12/22/2022 07:01
PFOS	ND	0.085	0.027	0.027	1	1763-23-1		12/22/2022 07:01
MeFOSA	ND	0.092	0.025	0.025	1	31506-32-8		12/22/2022 07:01
PFDA	ND	0.092	0.021	0.021	1	335-76-2		12/22/2022 07:01
EtFOSAm	ND	0.092	0.024	0.024	1	4151-50-2		12/22/2022 07:01
8:2 FTS	ND	0.088	0.040	0.040	1	39108-34-4		12/22/2022 07:01
9-CI-PF3ON	ND	0.086	0.023	0.023	1	756426-58-1		12/22/2022 07:01
PFNS	ND	0.088	0.032	0.032	1	68259-12-1		12/22/2022 07:01
PFUnDA	ND	0.092	0.028	0.028	1	2058-94-8		12/22/2022 07:01
NMeFOSAA	ND	0.092	0.026	0.026	1	2355-31-9		12/22/2022 07:01
NEtFOSAA	ND	0.092	0.037	0.037	1	2991-50-6		12/22/2022 07:01
PFDS	ND	0.089	0.026	0.026	1	335-77-3		12/22/2022 07:01
PFDOA	ND	0.092	0.030	0.030	1	307-55-1		12/22/2022 07:01
MeFOSE	ND	0.092	0.028	0.028	1	24448-09-7		12/22/2022 07:01
EtFOSE	ND	0.092	0.030	0.030	1	1691-99-2		12/22/2022 07:01
11-CI-PF3OUdS	ND	0.087	0.023	0.023	1	763051-92-9		12/22/2022 07:01
PFTTrDA	ND	0.092	0.029	0.029	1	72629-94-8		12/22/2022 07:01
PFDoS	ND	0.089	0.024	0.024	1	79780-39-5		12/22/2022 07:01
PFTDA	ND	0.092	0.032	0.032	1	376-06-7		12/22/2022 07:01

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB23-24-0
 Lab Sample ID 10635405024
 Lab File ID B221222A_009
 Matrix Solid
 Collected 11/29/2022 10:30
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 09:14

Total Amount Extracted 5.42g
 Ical ID 221219A02
 CCal File B221222A_002
 Ending CCal File B221222A_014
 Blank File B221222A_004

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.92	0.94	102	25-150		12/22/2022 07:01
13C5 PFPeA	0.92	0.90	97	25-150		12/22/2022 07:01
13C3 PFBS	0.86	0.81	95	25-150		12/22/2022 07:01
13C2 4:2FTS	0.86	0.85	98	25-150		12/22/2022 07:01
13C5 PFHxA	0.92	0.88	95	25-150		12/22/2022 07:01
13C4 PFHpA	0.92	0.86	93	25-150		12/22/2022 07:01
13C3 PFHxS	0.87	0.91	104	25-150		12/22/2022 07:01
13C2 6:2FTS	0.87	0.86	98	25-150		12/22/2022 07:01
13C8 PFOA	0.92	0.89	97	25-150		12/22/2022 07:01
13C9 PFNA	0.92	0.99	107	25-150		12/22/2022 07:01
13C8 PFOS	0.88	0.81	92	25-150		12/22/2022 07:01
13C2 8:2FTS	0.88	0.85	96	25-150		12/22/2022 07:01
13C6 PFDA	0.92	0.86	93	25-150		12/22/2022 07:01
d3-MeFOSAA	0.92	0.89	96	25-150		12/22/2022 07:01
13C8 PFOSA	0.92	0.89	97	25-150		12/22/2022 07:01
d5-EtFOSAA	0.92	0.92	100	25-150		12/22/2022 07:01
13C7 PFUdA	0.92	0.92	100	25-150		12/22/2022 07:01
13C2 PFDoA	0.92	0.98	106	25-150		12/22/2022 07:01
13C2 PFTeDA	0.92	0.83	90	25-150		12/22/2022 07:01
13C3 HFPO-DA	0.92	0.92	100	25-150		12/22/2022 07:01
d7-N-MeFOSE	0.92	0.65	71	10-150		12/22/2022 07:01
d9-N-EtFOSE	0.92	0.64	69	10-150		12/22/2022 07:01
d3-N-MeFOSA	0.92	0.16	18	10-150		12/22/2022 07:01
d5-N-EtFOSA	0.92	0.12	13	10-150		12/22/2022 07:01

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	MEWI-S-SB23-24-0	Total Amount Extracted	5.42g
Lab Sample ID	10635405024	Ical ID	221219A02
Lab File ID	B221222A_009	CCal File	B221222A_002
Matrix	Solid	Ending CCal File	B221222A_014
Collected	11/29/2022 10:30	Blank File	B221222A_004
Received	12/01/2022 08:50		
Extraction Date	12/16/2022 09:14		

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.17	4.20	23		12/22/2022 07:01
13C5 PFPeA	N/A	N/A	5.04	5.06	24		12/22/2022 07:01
13C3 PFBS	N/A	N/A	6.00	6.05	24		12/22/2022 07:01
13C2 4:2FTS	N/A	N/A	5.45	5.50	89		12/22/2022 07:01
13C5 PFHxA	N/A	N/A	5.74	5.78	17		12/22/2022 07:01
13C4 PFHpA	N/A	N/A	6.42	6.45	17		12/22/2022 07:01
13C3 PFHxS	N/A	N/A	7.53	7.50	37		12/22/2022 07:01
13C2 6:2FTS	N/A	N/A	6.75	6.77	31		12/22/2022 07:01
13C8 PFOA	N/A	N/A	7.10	7.13	23		12/22/2022 07:01
13C9 PFNA	N/A	N/A	7.77	7.78	23		12/22/2022 07:01
13C8 PFOS	N/A	N/A	8.95	8.98	21		12/22/2022 07:01
13C2 8:2FTS	N/A	N/A	8.06	8.07	57		12/22/2022 07:01
13C6 PFDA	N/A	N/A	8.45	8.46	12		12/22/2022 07:01
d3-MeFOSAA	N/A	N/A	8.30	8.31	37		12/22/2022 07:01
13C8 PFOSA	N/A	N/A	10.58	10.62	11		12/22/2022 07:01
d5-EtFOSAA	N/A	N/A	8.60	8.61	16		12/22/2022 07:01
13C7 PFUdA	N/A	N/A	9.13	9.16	24		12/22/2022 07:01
13C2 PFDaA	N/A	N/A	9.82	9.85	14		12/22/2022 07:01
13C2 PFTeDA	N/A	N/A	11.16	11.21	15		12/22/2022 07:01
13C3 HFPO-DA	N/A	N/A	6.02	6.03	19		12/22/2022 07:01
d7-N-MeFOSE	N/A	N/A	12.51	12.54	43		12/22/2022 07:01
d9-N-EtFOSE	N/A	N/A	12.98	13.00	35		12/22/2022 07:01
d3-N-MeFOSA	N/A	N/A	12.71	12.73	46		12/22/2022 07:01
d5-N-EtFOSA	N/A	N/A	13.13	13.15	47		12/22/2022 07:01

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-SB23-24-0
 Lab Sample ID 10635405024
 Lab File ID B221222A_009
 Matrix Solid
 Collected 11/29/2022 10:30
 Received 12/01/2022 08:50
 Extraction Date 12/16/2022 09:14

Total Amount Extracted 5.42g
 Ical ID 221219A02
 CCal File B221222A_002
 Ending CCal File B221222A_014
 Blank File B221222A_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.18	4.20	ND		12/22/2022 07:01
PFPeA	N/A	N/A	5.05	5.06	ND		12/22/2022 07:01
HFPO-DA	0.00	0.29	0.00	6.04	ND		12/22/2022 07:01
PFBS	0.46	0.42	6.01	6.03	ND		12/22/2022 07:01
PFHxA	0.00	0.08	0.00	5.76	ND		12/22/2022 07:01
4:2 FTS	0.00	0.82	0.00	5.50	ND		12/22/2022 07:01
PFPeS	0.00	0.36	0.00	6.83	ND		12/22/2022 07:01
PFHpA	0.41	0.28	6.43	6.46	ND		12/22/2022 07:01
DONA	0.00	0.52	0.00	6.70	ND		12/22/2022 07:01
PFHxS	0.00	0.36	0.00	7.58	ND		12/22/2022 07:01
PFOA	0.22	0.39	7.09	7.11	ND		12/22/2022 07:01
6:2 FTS	0.00	0.82	0.00	6.76	ND		12/22/2022 07:01
PFHpS	0.00	0.38	0.00	8.27	ND		12/22/2022 07:01
PFNA	0.18	0.15	7.77	7.79	ND		12/22/2022 07:01
PFOSAm	N/A	N/A	0.00	10.71	ND		12/22/2022 07:01
PFOS	0.44	0.39	8.96	9.11	ND		12/22/2022 07:01
MeFOSA	0.00	0.58	0.00	12.78	ND		12/22/2022 07:01
PFDA	0.11	0.16	8.46	8.53	ND		12/22/2022 07:01
EtFOSAm	0.00	0.48	0.00	13.20	ND		12/22/2022 07:01
8:2 FTS	0.00	0.86	0.00	8.13	ND		12/22/2022 07:01
9-CI-PF3ON	0.00	0.06	0.00	9.49	ND		12/22/2022 07:01
PFNS	0.00	0.47	0.00	9.68	ND		12/22/2022 07:01
PFUnDA	0.00	0.12	0.00	9.17	ND		12/22/2022 07:01
NMeFOSAA	0.00	0.91	0.00	8.32	ND		12/22/2022 07:01
NEtFOSAA	0.00	0.59	0.00	8.62	ND		12/22/2022 07:01
PFDS	0.00	0.29	0.00	10.37	ND		12/22/2022 07:01
PFDOA	0.24	0.16	9.83	9.86	ND		12/22/2022 07:01
MeFOSE	N/A	N/A	0.00	12.59	ND		12/22/2022 07:01
EtFOSE	0.00	0.00	0.00	13.04	ND		12/22/2022 07:01
11-CI-PF3OUdS	0.00	0.02	0.00	10.86	ND		12/22/2022 07:01
PFTrDA	0.00	0.15	0.00	10.54	ND		12/22/2022 07:01
PFDoS	0.00	0.45	0.00	11.64	ND		12/22/2022 07:01
PFTDA	0.00	0.24	0.00	11.21	ND		12/22/2022 07:01

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-EB1-0
 Lab Sample ID 10635405025
 Lab File ID B230103C_007
 Matrix Water
 Collected 11/28/2022 20:00
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 224mL
 Ical ID 230103A02
 CCal File B230103C_002
 Ending CCal File B230103C_014
 Blank File B230103C_004

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	2.2	0.55	0.55	1	375-22-4		01/03/2023 20:10
PFPeA	ND	2.2	0.91	0.91	1	2706-90-3		01/03/2023 20:10
HFPO-DA	ND	2.2	0.55	0.55	1	13252-13-6		01/03/2023 20:10
PFBS	ND	2.0	0.54	0.54	1	375-73-5		01/03/2023 20:10
PFHxA	ND	2.2	1.0	1.0	1	307-24-4		01/03/2023 20:10
4:2 FTS	ND	2.1	0.52	0.52	1	757124-72-4		01/03/2023 20:10
PFPeS	ND	2.1	0.67	0.67	1	2706-91-4		01/03/2023 20:10
PFHpA	ND	2.2	0.77	0.77	1	375-85-9		01/03/2023 20:10
DONA	ND	2.1	1.0	1.0	1	919005-14-4		01/03/2023 20:10
PFHxS	ND	2.0	0.59	0.59	1	355-46-4		01/03/2023 20:10
PFOA	ND	2.2	0.96	0.96	1	335-67-1		01/03/2023 20:10
6:2 FTS	ND	2.1	0.75	0.75	1	27619-97-2		01/03/2023 20:10
PFHpS	ND	2.1	0.74	0.74	1	375-92-8		01/03/2023 20:10
PFNA	ND	2.2	0.88	0.88	1	375-95-1		01/03/2023 20:10
PFOSAm	ND	2.2	0.80	0.80	1	754-91-6		01/03/2023 20:10
PFOS	ND	2.1	0.74	0.74	1	1763-23-1		01/03/2023 20:10
MeFOSA	ND	2.2	0.62	0.62	1	31506-32-8		01/03/2023 20:10
PFDA	ND	2.2	0.68	0.68	1	335-76-2		01/03/2023 20:10
EtFOSAm	ND	2.2	0.64	0.64	1	4151-50-2		01/03/2023 20:10
8:2 FTS	ND	2.1	0.56	0.56	1	39108-34-4		01/03/2023 20:10
9-CI-PF3ON	ND	2.1	0.52	0.52	1	756426-58-1		01/03/2023 20:10
PFNS	ND	2.1	0.65	0.65	1	68259-12-1		01/03/2023 20:10
PFUnDA	ND	2.2	0.54	0.54	1	2058-94-8		01/03/2023 20:10
NMeFOSAA	ND	2.2	0.77	0.77	1	2355-31-9		01/03/2023 20:10
NEtFOSAA	ND	2.2	0.91	0.91	1	2991-50-6		01/03/2023 20:10
PFDS	ND	2.2	0.71	0.71	1	335-77-3		01/03/2023 20:10
PFDOA	ND	2.2	0.53	0.53	1	307-55-1		01/03/2023 20:10
MeFOSE	ND	2.2	0.58	0.58	1	24448-09-7		01/03/2023 20:10
EtFOSE	ND	2.2	0.99	0.99	1	1691-99-2		01/03/2023 20:10
11-CI-PF3OUdS	ND	2.1	0.62	0.62	1	763051-92-9		01/03/2023 20:10
PFTTrDA	ND	2.2	0.69	0.69	1	72629-94-8		01/03/2023 20:10
PFDoS	ND	2.2	0.66	0.66	1	79780-39-5		01/03/2023 20:10
PFTDA	ND	2.2	0.67	0.67	1	376-06-7		01/03/2023 20:10

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-EB1-0
 Lab Sample ID 10635405025
 Lab File ID B230103C_007
 Matrix Water
 Collected 11/28/2022 20:00
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 224mL
 Ical ID 230103A02
 CCal File B230103C_002
 Ending CCal File B230103C_014
 Blank File B230103C_004

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	22	23	103	25-150		01/03/2023 20:10
13C5 PFPeA	22	22	98	25-150		01/03/2023 20:10
13C3 PFBS	21	21	101	25-150		01/03/2023 20:10
13C2 4:2FTS	21	22	107	25-150		01/03/2023 20:10
13C5 PFHxA	22	24	108	25-150		01/03/2023 20:10
13C4 PFHpA	22	21	96	25-150		01/03/2023 20:10
13C3 PFHxS	21	24	112	25-150		01/03/2023 20:10
13C2 6:2FTS	21	20	95	25-150		01/03/2023 20:10
13C8 PFOA	22	24	107	25-150		01/03/2023 20:10
13C9 PFNA	22	22	98	25-150		01/03/2023 20:10
13C8 PFOS	21	23	106	25-150		01/03/2023 20:10
13C2 8:2FTS	21	23	109	25-150		01/03/2023 20:10
13C6 PFDA	22	24	106	25-150		01/03/2023 20:10
d3-MeFOSAA	22	22	98	25-150		01/03/2023 20:10
13C8 PFOSA	22	20	88	25-150		01/03/2023 20:10
d5-EtFOSAA	22	21	92	25-150		01/03/2023 20:10
13C7 PFUdA	22	27	120	25-150		01/03/2023 20:10
13C2 PFDoA	22	25	113	25-150		01/03/2023 20:10
13C2 PFTeDA	22	22	100	25-150		01/03/2023 20:10
13C3 HFPO-DA	22	23	104	25-150		01/03/2023 20:10
d7-N-MeFOSE	22	19	86	10-150		01/03/2023 20:10
d9-N-EtFOSE	22	21	96	10-150		01/03/2023 20:10
d3-N-MeFOSA	22	14	65	10-150		01/03/2023 20:10
d5-N-EtFOSA	22	15	66	10-150		01/03/2023 20:10

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	MEWI-S-EB1-0	Total Amount Extracted	224mL
Lab Sample ID	10635405025	Ical ID	230103A02
Lab File ID	B230103C_007	CCal File	B230103C_002
Matrix	Water	Ending CCal File	B230103C_014
Collected	11/28/2022 20:00	Blank File	B230103C_004
Received	12/01/2022 08:50		
Extraction Date	12/29/2022 15:15		

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.18	4.14	26		01/03/2023 20:10
13C5 PFPeA	N/A	N/A	5.07	5.06	28		01/03/2023 20:10
13C3 PFBS	N/A	N/A	6.04	6.02	22		01/03/2023 20:10
13C2 4:2FTS	N/A	N/A	5.48	5.47	11		01/03/2023 20:10
13C5 PFHxA	N/A	N/A	5.77	5.76	22		01/03/2023 20:10
13C4 PFHpA	N/A	N/A	6.44	6.45	18		01/03/2023 20:10
13C3 PFHxS	N/A	N/A	7.52	7.54	23		01/03/2023 20:10
13C2 6:2FTS	N/A	N/A	6.76	6.77	24		01/03/2023 20:10
13C8 PFOA	N/A	N/A	7.09	7.11	27		01/03/2023 20:10
13C9 PFNA	N/A	N/A	7.74	7.78	21		01/03/2023 20:10
13C8 PFOS	N/A	N/A	8.88	8.96	17		01/03/2023 20:10
13C2 8:2FTS	N/A	N/A	8.02	8.07	17		01/03/2023 20:10
13C6 PFDA	N/A	N/A	8.40	8.46	17		01/03/2023 20:10
d3-MeFOSAA	N/A	N/A	8.26	8.31	29		01/03/2023 20:10
13C8 PFOSA	N/A	N/A	10.46	10.54	13		01/03/2023 20:10
d5-EtFOSAA	N/A	N/A	8.54	8.61	17		01/03/2023 20:10
13C7 PFUdA	N/A	N/A	9.06	9.06	22		01/03/2023 20:10
13C2 PFDoA	N/A	N/A	9.73	9.85	15		01/03/2023 20:10
13C2 PFTeDA	N/A	N/A	11.04	11.19	16		01/03/2023 20:10
13C3 HFPO-DA	N/A	N/A	6.05	6.04	18		01/03/2023 20:10
d7-N-MeFOSE	N/A	N/A	12.37	12.51	40		01/03/2023 20:10
d9-N-EtFOSE	N/A	N/A	12.86	12.97	42		01/03/2023 20:10
d3-N-MeFOSA	N/A	N/A	12.57	12.70	54		01/03/2023 20:10
d5-N-EtFOSA	N/A	N/A	13.02	13.11	66		01/03/2023 20:10

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-EB1-0
 Lab Sample ID 10635405025
 Lab File ID B230103C_007
 Matrix Water
 Collected 11/28/2022 20:00
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 224mL
 Ical ID 230103A02
 CCal File B230103C_002
 Ending CCal File B230103C_014
 Blank File B230103C_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.18	4.14	ND		01/03/2023 20:10
PFPeA	N/A	N/A	5.08	5.05	ND		01/03/2023 20:10
HFPO-DA	0.54	0.28	6.07	6.05	ND		01/03/2023 20:10
PFBS	0.72	0.45	6.05	6.03	ND		01/03/2023 20:10
PFHxA	0.15	0.07	5.78	5.76	ND		01/03/2023 20:10
4:2 FTS	0.00	0.80	0.00	5.48	ND		01/03/2023 20:10
PFPeS	0.00	0.45	0.00	6.82	ND		01/03/2023 20:10
PFHpA	0.32	0.29	6.45	6.45	ND		01/03/2023 20:10
DONA	0.91	0.62	6.68	6.70	ND		01/03/2023 20:10
PFHxS	0.00	0.37	7.51	7.55	ND		01/03/2023 20:10
PFOA	0.36	0.41	7.10	7.11	ND		01/03/2023 20:10
6:2 FTS	1.10	0.83	6.76	6.76	ND		01/03/2023 20:10
PFHpS	0.00	0.29	0.00	8.27	ND		01/03/2023 20:10
PFNA	0.00	0.16	0.00	7.79	ND		01/03/2023 20:10
PFOSAm	N/A	N/A	10.48	10.55	ND		01/03/2023 20:10
PFOS	0.27	0.37	8.89	8.99	ND		01/03/2023 20:10
MeFOSA	0.00	0.66	0.00	12.74	ND		01/03/2023 20:10
PFDA	0.07	0.16	8.41	8.47	ND		01/03/2023 20:10
EtFOSAm	0.00	0.45	0.00	13.16	ND		01/03/2023 20:10
8:2 FTS	0.66	0.95	8.03	8.08	ND		01/03/2023 20:10
9-CI-PF3ON	0.00	0.05	0.00	9.49	ND		01/03/2023 20:10
PFNS	0.00	0.48	0.00	9.68	ND		01/03/2023 20:10
PFUnDA	0.15	0.14	9.07	9.17	ND		01/03/2023 20:10
NMeFOSAA	0.00	0.72	0.00	8.32	ND		01/03/2023 20:10
NEtFOSAA	0.00	0.60	0.00	8.62	ND		01/03/2023 20:10
PFDS	0.00	0.36	0.00	10.35	ND		01/03/2023 20:10
PFDOA	0.00	0.18	0.00	9.86	ND		01/03/2023 20:10
MeFOSE	N/A	N/A	12.41	12.55	ND		01/03/2023 20:10
EtFOSE	0.00	0.00	12.90	13.04	ND		01/03/2023 20:10
11-CI-PF3OUdS	0.00	0.02	0.00	10.84	ND		01/03/2023 20:10
PFTTrDA	0.00	0.17	0.00	10.54	ND		01/03/2023 20:10
PFDoS	0.00	0.45	0.00	11.61	ND		01/03/2023 20:10
PFTDA	0.27	0.21	11.04	11.21	ND		01/03/2023 20:10

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-EB2-0
 Lab Sample ID 10635405026
 Lab File ID B230103C_008
 Matrix Water
 Collected 11/29/2022 14:30
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 236mL
 Ical ID 230103A02
 CCal File B230103C_002
 Ending CCal File B230103C_014
 Blank File B230103C_004

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	2.1	0.53	0.53	1	375-22-4		01/03/2023 20:30
PFPeA	ND	2.1	0.87	0.87	1	2706-90-3		01/03/2023 20:30
HFPO-DA	ND	2.1	0.52	0.52	1	13252-13-6		01/03/2023 20:30
PFBS	ND	1.9	0.51	0.51	1	375-73-5		01/03/2023 20:30
PFHxA	ND	2.1	0.97	0.97	1	307-24-4		01/03/2023 20:30
4:2 FTS	ND	2.0	0.49	0.49	1	757124-72-4		01/03/2023 20:30
PFPeS	ND	2.0	0.64	0.64	1	2706-91-4		01/03/2023 20:30
PFHpA	ND	2.1	0.73	0.73	1	375-85-9		01/03/2023 20:30
DONA	ND	2.0	0.97	0.97	1	919005-14-4		01/03/2023 20:30
PFHxS	ND	1.9	0.56	0.56	1	355-46-4		01/03/2023 20:30
PFOA	ND	2.1	0.91	0.91	1	335-67-1		01/03/2023 20:30
6:2 FTS	ND	2.0	0.72	0.72	1	27619-97-2		01/03/2023 20:30
PFHpS	ND	2.0	0.71	0.71	1	375-92-8		01/03/2023 20:30
PFNA	ND	2.1	0.84	0.84	1	375-95-1		01/03/2023 20:30
PFOSAm	ND	2.1	0.76	0.76	1	754-91-6		01/03/2023 20:30
PFOS	ND	2.0	0.71	0.71	1	1763-23-1		01/03/2023 20:30
MeFOSA	ND	2.1	0.59	0.59	1	31506-32-8		01/03/2023 20:30
PFDA	ND	2.1	0.64	0.64	1	335-76-2		01/03/2023 20:30
EtFOSAm	ND	2.1	0.61	0.61	1	4151-50-2		01/03/2023 20:30
8:2 FTS	ND	2.0	0.53	0.53	1	39108-34-4		01/03/2023 20:30
9-CI-PF3ON	ND	2.0	0.50	0.50	1	756426-58-1		01/03/2023 20:30
PFNS	ND	2.0	0.62	0.62	1	68259-12-1		01/03/2023 20:30
PFUnDA	ND	2.1	0.51	0.51	1	2058-94-8		01/03/2023 20:30
NMeFOSAA	ND	2.1	0.74	0.74	1	2355-31-9		01/03/2023 20:30
NEtFOSAA	ND	2.1	0.86	0.86	1	2991-50-6		01/03/2023 20:30
PFDS	ND	2.0	0.68	0.68	1	335-77-3		01/03/2023 20:30
PFDOA	ND	2.1	0.51	0.51	1	307-55-1		01/03/2023 20:30
MeFOSE	ND	2.1	0.55	0.55	1	24448-09-7		01/03/2023 20:30
EtFOSE	ND	2.1	0.94	0.94	1	1691-99-2		01/03/2023 20:30
11-CI-PF3OUdS	ND	2.0	0.59	0.59	1	763051-92-9		01/03/2023 20:30
PFTTrDA	ND	2.1	0.66	0.66	1	72629-94-8		01/03/2023 20:30
PFDoS	ND	2.1	0.63	0.63	1	79780-39-5		01/03/2023 20:30
PFTDA	ND	2.1	0.64	0.64	1	376-06-7		01/03/2023 20:30

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-EB2-0
 Lab Sample ID 10635405026
 Lab File ID B230103C_008
 Matrix Water
 Collected 11/29/2022 14:30
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 236mL
 Ical ID 230103A02
 CCal File B230103C_002
 Ending CCal File B230103C_014
 Blank File B230103C_004

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	21	22	104	25-150		01/03/2023 20:30
13C5 PFPeA	21	22	102	25-150		01/03/2023 20:30
13C3 PFBS	20	21	108	25-150		01/03/2023 20:30
13C2 4:2FTS	20	24	122	25-150		01/03/2023 20:30
13C5 PFHxA	21	23	110	25-150		01/03/2023 20:30
13C4 PFHpA	21	22	105	25-150		01/03/2023 20:30
13C3 PFHxS	20	23	116	25-150		01/03/2023 20:30
13C2 6:2FTS	20	21	104	25-150		01/03/2023 20:30
13C8 PFOA	21	25	117	25-150		01/03/2023 20:30
13C9 PFNA	21	23	108	25-150		01/03/2023 20:30
13C8 PFOS	20	22	109	25-150		01/03/2023 20:30
13C2 8:2FTS	20	22	107	25-150		01/03/2023 20:30
13C6 PFDA	21	22	105	25-150		01/03/2023 20:30
d3-MeFOSAA	21	25	118	25-150		01/03/2023 20:30
13C8 PFOSA	21	20	94	25-150		01/03/2023 20:30
d5-EtFOSAA	21	21	101	25-150		01/03/2023 20:30
13C7 PFUdA	21	24	115	25-150		01/03/2023 20:30
13C2 PFDaA	21	26	124	25-150		01/03/2023 20:30
13C2 PFTeDA	21	21	100	25-150		01/03/2023 20:30
13C3 HFPO-DA	21	22	104	25-150		01/03/2023 20:30
d7-N-MeFOSE	21	18	87	10-150		01/03/2023 20:30
d9-N-EtFOSE	21	21	98	10-150		01/03/2023 20:30
d3-N-MeFOSA	21	15	71	10-150		01/03/2023 20:30
d5-N-EtFOSA	21	17	78	10-150		01/03/2023 20:30

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	MEWI-S-EB2-0	Total Amount Extracted	236mL
Lab Sample ID	10635405026	Ical ID	230103A02
Lab File ID	B230103C_008	CCal File	B230103C_002
Matrix	Water	Ending CCal File	B230103C_014
Collected	11/29/2022 14:30	Blank File	B230103C_004
Received	12/01/2022 08:50		
Extraction Date	12/29/2022 15:15		

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.18	4.14	26		01/03/2023 20:30
13C5 PFPeA	N/A	N/A	5.05	5.06	23		01/03/2023 20:30
13C3 PFBS	N/A	N/A	6.02	6.02	20		01/03/2023 20:30
13C2 4:2FTS	N/A	N/A	5.47	5.47	11		01/03/2023 20:30
13C5 PFHxA	N/A	N/A	5.75	5.76	20		01/03/2023 20:30
13C4 PFHpA	N/A	N/A	6.43	6.45	23		01/03/2023 20:30
13C3 PFHxS	N/A	N/A	7.51	7.54	34		01/03/2023 20:30
13C2 6:2FTS	N/A	N/A	6.75	6.77	16		01/03/2023 20:30
13C8 PFOA	N/A	N/A	7.09	7.11	27		01/03/2023 20:30
13C9 PFNA	N/A	N/A	7.74	7.78	20		01/03/2023 20:30
13C8 PFOS	N/A	N/A	8.87	8.96	23		01/03/2023 20:30
13C2 8:2FTS	N/A	N/A	8.02	8.07	21		01/03/2023 20:30
13C6 PFDA	N/A	N/A	8.39	8.46	17		01/03/2023 20:30
d3-MeFOSAA	N/A	N/A	8.25	8.31	23		01/03/2023 20:30
13C8 PFOSA	N/A	N/A	10.47	10.54	11		01/03/2023 20:30
d5-EtFOSAA	N/A	N/A	8.53	8.61	14		01/03/2023 20:30
13C7 PFUdA	N/A	N/A	9.05	9.16	17		01/03/2023 20:30
13C2 PFDoA	N/A	N/A	9.73	9.85	18		01/03/2023 20:30
13C2 PFTeDA	N/A	N/A	11.04	11.19	13		01/03/2023 20:30
13C3 HFPO-DA	N/A	N/A	6.03	6.04	17		01/03/2023 20:30
d7-N-MeFOSE	N/A	N/A	12.35	12.51	42		01/03/2023 20:30
d9-N-EtFOSE	N/A	N/A	12.83	12.97	53		01/03/2023 20:30
d3-N-MeFOSA	N/A	N/A	12.55	12.70	65		01/03/2023 20:30
d5-N-EtFOSA	N/A	N/A	12.99	13.11	69		01/03/2023 20:30

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	MEWI-S-EB2-0	Total Amount Extracted	236mL
Lab Sample ID	10635405026	Ical ID	230103A02
Lab File ID	B230103C_008	CCal File	B230103C_002
Matrix	Water	Ending CCal File	B230103C_014
Collected	11/29/2022 14:30	Blank File	B230103C_004
Received	12/01/2022 08:50		
Extraction Date	12/29/2022 15:15		

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.18	4.14	ND		01/03/2023 20:30
PFPeA	N/A	N/A	5.06	5.05	ND		01/03/2023 20:30
HFPO-DA	0.39	0.28	6.05	6.05	ND		01/03/2023 20:30
PFBS	0.35	0.45	6.02	6.03	ND		01/03/2023 20:30
PFHxA	0.07	0.07	5.76	5.76	ND		01/03/2023 20:30
4:2 FTS	0.00	0.80	0.00	5.48	ND		01/03/2023 20:30
PFPeS	0.00	0.45	0.00	6.82	ND		01/03/2023 20:30
PFHpA	0.20	0.29	6.44	6.45	ND		01/03/2023 20:30
DONA	0.00	0.62	0.00	6.70	ND		01/03/2023 20:30
PFHxS	0.41	0.37	7.52	7.55	ND		01/03/2023 20:30
PFOA	0.32	0.41	7.10	7.11	ND		01/03/2023 20:30
6:2 FTS	1.20	0.83	6.76	6.76	ND		01/03/2023 20:30
PFHpS	0.00	0.29	0.00	8.27	ND		01/03/2023 20:30
PFNA	0.00	0.16	0.00	7.79	ND		01/03/2023 20:30
PFOSAm	N/A	N/A	10.48	10.55	ND		01/03/2023 20:30
PFOS	0.20	0.37	8.88	8.99	ND		01/03/2023 20:30
MeFOSA	0.00	0.66	0.00	12.74	ND		01/03/2023 20:30
PFDA	0.07	0.16	8.40	8.47	ND		01/03/2023 20:30
EtFOSAm	0.00	0.45	0.00	13.16	ND		01/03/2023 20:30
8:2 FTS	0.00	0.95	0.00	8.08	ND		01/03/2023 20:30
9-CI-PF3ON	0.00	0.05	0.00	9.49	ND		01/03/2023 20:30
PFNS	0.00	0.48	0.00	9.68	ND		01/03/2023 20:30
PFUnDA	0.13	0.14	9.06	9.17	ND		01/03/2023 20:30
NMeFOSAA	0.00	0.72	0.00	8.32	ND		01/03/2023 20:30
NEtFOSAA	0.00	0.60	0.00	8.62	ND		01/03/2023 20:30
PFDS	0.00	0.36	0.00	10.35	ND		01/03/2023 20:30
PFDOA	0.00	0.18	0.00	9.86	ND		01/03/2023 20:30
MeFOSE	N/A	N/A	0.00	12.55	ND		01/03/2023 20:30
EtFOSE	0.00	0.00	0.00	13.04	ND		01/03/2023 20:30
11-CI-PF3OUdS	0.00	0.02	0.00	10.84	ND		01/03/2023 20:30
PFTTrDA	0.00	0.17	0.00	10.54	ND		01/03/2023 20:30
PFDoS	0.00	0.45	0.00	11.61	ND		01/03/2023 20:30
PFTDA	0.18	0.21	11.05	11.21	ND		01/03/2023 20:30

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-EB3-0
 Lab Sample ID 10635405027
 Lab File ID B230103C_009
 Matrix Water
 Collected 11/30/2022 10:00
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 235mL
 Ical ID 230103A02
 CCal File B230103C_002
 Ending CCal File B230103C_014
 Blank File B230103C_004

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	2.1	0.53	0.53	1	375-22-4		01/03/2023 20:50
PFPeA	ND	2.1	0.87	0.87	1	2706-90-3		01/03/2023 20:50
HFPO-DA	ND	2.1	0.52	0.52	1	13252-13-6		01/03/2023 20:50
PFBS	ND	1.9	0.52	0.52	1	375-73-5		01/03/2023 20:50
PFHxA	ND	2.1	0.97	0.97	1	307-24-4		01/03/2023 20:50
4:2 FTS	ND	2.0	0.50	0.50	1	757124-72-4		01/03/2023 20:50
PFPeS	ND	2.0	0.64	0.64	1	2706-91-4		01/03/2023 20:50
PFHpA	ND	2.1	0.73	0.73	1	375-85-9		01/03/2023 20:50
DONA	ND	2.0	0.98	0.98	1	919005-14-4		01/03/2023 20:50
PFHxS	ND	1.9	0.57	0.57	1	355-46-4		01/03/2023 20:50
PFOA	ND	2.1	0.92	0.92	1	335-67-1		01/03/2023 20:50
6:2 FTS	ND	2.0	0.72	0.72	1	27619-97-2		01/03/2023 20:50
PFHpS	ND	2.0	0.71	0.71	1	375-92-8		01/03/2023 20:50
PFNA	ND	2.1	0.85	0.85	1	375-95-1		01/03/2023 20:50
PFOSAm	ND	2.1	0.76	0.76	1	754-91-6		01/03/2023 20:50
PFOS	ND	2.0	0.71	0.71	1	1763-23-1		01/03/2023 20:50
MeFOSA	ND	2.1	0.59	0.59	1	31506-32-8		01/03/2023 20:50
PFDA	ND	2.1	0.65	0.65	1	335-76-2		01/03/2023 20:50
EtFOSAm	ND	2.1	0.61	0.61	1	4151-50-2		01/03/2023 20:50
8:2 FTS	ND	2.0	0.54	0.54	1	39108-34-4		01/03/2023 20:50
9-CI-PF3ON	ND	2.0	0.50	0.50	1	756426-58-1		01/03/2023 20:50
PFNS	ND	2.0	0.62	0.62	1	68259-12-1		01/03/2023 20:50
PFUnDA	ND	2.1	0.52	0.52	1	2058-94-8		01/03/2023 20:50
NMeFOSAA	ND	2.1	0.74	0.74	1	2355-31-9		01/03/2023 20:50
NEtFOSAA	ND	2.1	0.87	0.87	1	2991-50-6		01/03/2023 20:50
PFDS	ND	2.1	0.68	0.68	1	335-77-3		01/03/2023 20:50
PFDOA	ND	2.1	0.51	0.51	1	307-55-1		01/03/2023 20:50
MeFOSE	ND	2.1	0.55	0.55	1	24448-09-7		01/03/2023 20:50
EtFOSE	ND	2.1	0.95	0.95	1	1691-99-2		01/03/2023 20:50
11-CI-PF3OUdS	ND	2.0	0.59	0.59	1	763051-92-9		01/03/2023 20:50
PFTTrDA	ND	2.1	0.66	0.66	1	72629-94-8		01/03/2023 20:50
PFDoS	ND	2.1	0.63	0.63	1	79780-39-5		01/03/2023 20:50
PFTDA	ND	2.1	0.64	0.64	1	376-06-7		01/03/2023 20:50

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-EB3-0
 Lab Sample ID 10635405027
 Lab File ID B230103C_009
 Matrix Water
 Collected 11/30/2022 10:00
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 235mL
 Ical ID 230103A02
 CCal File B230103C_002
 Ending CCal File B230103C_014
 Blank File B230103C_004

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	21	21	101	25-150		01/03/2023 20:50
13C5 PFPeA	21	21	99	25-150		01/03/2023 20:50
13C3 PFBS	20	19	98	25-150		01/03/2023 20:50
13C2 4:2FTS	20	22	109	25-150		01/03/2023 20:50
13C5 PFHxA	21	22	104	25-150		01/03/2023 20:50
13C4 PFHpA	21	22	101	25-150		01/03/2023 20:50
13C3 PFHxS	20	24	117	25-150		01/03/2023 20:50
13C2 6:2FTS	20	21	102	25-150		01/03/2023 20:50
13C8 PFOA	21	22	103	25-150		01/03/2023 20:50
13C9 PFNA	21	21	98	25-150		01/03/2023 20:50
13C8 PFOS	20	23	113	25-150		01/03/2023 20:50
13C2 8:2FTS	20	21	105	25-150		01/03/2023 20:50
13C6 PFDA	21	21	97	25-150		01/03/2023 20:50
d3-MeFOSAA	21	22	105	25-150		01/03/2023 20:50
13C8 PFOSA	21	19	90	25-150		01/03/2023 20:50
d5-EtFOSAA	21	22	102	25-150		01/03/2023 20:50
13C7 PFUdA	21	21	99	25-150		01/03/2023 20:50
13C2 PFDaA	21	24	112	25-150		01/03/2023 20:50
13C2 PFTeDA	21	22	101	25-150		01/03/2023 20:50
13C3 HFPO-DA	21	22	102	25-150		01/03/2023 20:50
d7-N-MeFOSE	21	18	87	10-150		01/03/2023 20:50
d9-N-EtFOSE	21	19	89	10-150		01/03/2023 20:50
d3-N-MeFOSA	21	14	65	10-150		01/03/2023 20:50
d5-N-EtFOSA	21	15	72	10-150		01/03/2023 20:50

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	MEWI-S-EB3-0	Total Amount Extracted	235mL
Lab Sample ID	10635405027	Ical ID	230103A02
Lab File ID	B230103C_009	CCal File	B230103C_002
Matrix	Water	Ending CCal File	B230103C_014
Collected	11/30/2022 10:00	Blank File	B230103C_004
Received	12/01/2022 08:50		
Extraction Date	12/29/2022 15:15		

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.17	4.14	25		01/03/2023 20:50
13C5 PFPeA	N/A	N/A	5.04	5.06	27		01/03/2023 20:50
13C3 PFBS	N/A	N/A	6.01	6.02	21		01/03/2023 20:50
13C2 4:2FTS	N/A	N/A	5.45	5.47	11		01/03/2023 20:50
13C5 PFHxA	N/A	N/A	5.74	5.76	19		01/03/2023 20:50
13C4 PFHpA	N/A	N/A	6.43	6.45	22		01/03/2023 20:50
13C3 PFHxS	N/A	N/A	7.52	7.54	29		01/03/2023 20:50
13C2 6:2FTS	N/A	N/A	6.75	6.77	17		01/03/2023 20:50
13C8 PFOA	N/A	N/A	7.09	7.11	30		01/03/2023 20:50
13C9 PFNA	N/A	N/A	7.75	7.78	20		01/03/2023 20:50
13C8 PFOS	N/A	N/A	8.90	8.96	23		01/03/2023 20:50
13C2 8:2FTS	N/A	N/A	8.03	8.07	32		01/03/2023 20:50
13C6 PFDA	N/A	N/A	8.41	8.46	20		01/03/2023 20:50
d3-MeFOSAA	N/A	N/A	8.27	8.31	16		01/03/2023 20:50
13C8 PFOSA	N/A	N/A	10.47	10.54	12		01/03/2023 20:50
d5-EtFOSAA	N/A	N/A	8.55	8.61	11		01/03/2023 20:50
13C7 PFUdA	N/A	N/A	9.08	9.16	23		01/03/2023 20:50
13C2 PFDaA	N/A	N/A	9.75	9.85	16		01/03/2023 20:50
13C2 PFTeDA	N/A	N/A	11.05	11.19	13		01/03/2023 20:50
13C3 HFPO-DA	N/A	N/A	6.02	6.04	19		01/03/2023 20:50
d7-N-MeFOSE	N/A	N/A	12.40	12.51	44		01/03/2023 20:50
d9-N-EtFOSE	N/A	N/A	12.87	12.97	49		01/03/2023 20:50
d3-N-MeFOSA	N/A	N/A	12.59	12.70	56		01/03/2023 20:50
d5-N-EtFOSA	N/A	N/A	13.02	13.11	75		01/03/2023 20:50

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-EB3-0
 Lab Sample ID 10635405027
 Lab File ID B230103C_009
 Matrix Water
 Collected 11/30/2022 10:00
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 235mL
 Ical ID 230103A02
 CCal File B230103C_002
 Ending CCal File B230103C_014
 Blank File B230103C_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.17	4.14	ND		01/03/2023 20:50
PFPeA	N/A	N/A	5.05	5.05	ND		01/03/2023 20:50
HFPO-DA	0.22	0.28	6.04	6.05	ND		01/03/2023 20:50
PFBS	0.43	0.45	6.01	6.03	ND		01/03/2023 20:50
PFHxA	0.00	0.07	0.00	5.76	ND		01/03/2023 20:50
4:2 FTS	0.00	0.80	0.00	5.48	ND		01/03/2023 20:50
PFPeS	0.50	0.45	6.80	6.82	ND		01/03/2023 20:50
PFHpA	0.16	0.29	6.43	6.45	ND		01/03/2023 20:50
DONA	0.00	0.62	0.00	6.70	ND		01/03/2023 20:50
PFHxS	0.32	0.37	7.52	7.55	ND		01/03/2023 20:50
PFOA	0.61	0.41	7.10	7.11	ND		01/03/2023 20:50
6:2 FTS	1.10	0.83	6.75	6.76	ND		01/03/2023 20:50
PFHpS	0.00	0.29	0.00	8.27	ND		01/03/2023 20:50
PFNA	0.29	0.16	7.75	7.79	ND		01/03/2023 20:50
PFOSAm	N/A	N/A	10.48	10.55	ND		01/03/2023 20:50
PFOS	0.36	0.37	8.91	8.99	ND		01/03/2023 20:50
MeFOSA	0.00	0.66	0.00	12.74	ND		01/03/2023 20:50
PFDA	0.13	0.16	8.42	8.47	ND		01/03/2023 20:50
EtFOSAm	0.00	0.45	0.00	13.16	ND		01/03/2023 20:50
8:2 FTS	0.00	0.95	0.00	8.08	ND		01/03/2023 20:50
9-CI-PF3ON	0.00	0.05	0.00	9.49	ND		01/03/2023 20:50
PFNS	0.00	0.48	0.00	9.68	ND		01/03/2023 20:50
PFUnDA	0.00	0.14	0.00	9.17	ND		01/03/2023 20:50
NMeFOSAA	0.00	0.72	0.00	8.32	ND		01/03/2023 20:50
NEtFOSAA	0.00	0.60	0.00	8.62	ND		01/03/2023 20:50
PFDS	0.00	0.36	0.00	10.35	ND		01/03/2023 20:50
PFDOA	0.00	0.18	0.00	9.86	ND		01/03/2023 20:50
MeFOSE	N/A	N/A	0.00	12.55	ND		01/03/2023 20:50
EtFOSE	0.00	0.00	0.00	13.04	ND		01/03/2023 20:50
11-CI-PF3OUdS	0.00	0.02	0.00	10.84	ND		01/03/2023 20:50
PFTTrDA	0.23	0.17	10.41	10.54	ND		01/03/2023 20:50
PFDoS	0.00	0.45	0.00	11.61	ND		01/03/2023 20:50
PFTDA	0.24	0.21	11.05	11.21	ND		01/03/2023 20:50

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-FB1-0
 Lab Sample ID 10635405028
 Lab File ID B230103C_010
 Matrix Water
 Collected 11/28/2022 09:15
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 250mL
 Ical ID 230103A02
 CCal File B230103C_002
 Ending CCal File B230103C_014
 Blank File B230103C_004

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	2.0	0.50	0.50	1	375-22-4		01/03/2023 21:10
PFPeA	ND	2.0	0.82	0.82	1	2706-90-3		01/03/2023 21:10
HFPO-DA	ND	2.0	0.49	0.49	1	13252-13-6		01/03/2023 21:10
PFBS	ND	1.8	0.49	0.49	1	375-73-5		01/03/2023 21:10
PFHxA	ND	2.0	0.91	0.91	1	307-24-4		01/03/2023 21:10
4:2 FTS	ND	1.9	0.47	0.47	1	757124-72-4		01/03/2023 21:10
PFPeS	ND	1.9	0.60	0.60	1	2706-91-4		01/03/2023 21:10
PFHpA	ND	2.0	0.69	0.69	1	375-85-9		01/03/2023 21:10
DONA	ND	1.9	0.92	0.92	1	919005-14-4		01/03/2023 21:10
PFHxS	ND	1.8	0.53	0.53	1	355-46-4		01/03/2023 21:10
PFOA	ND	2.0	0.86	0.86	1	335-67-1		01/03/2023 21:10
6:2 FTS	ND	1.9	0.68	0.68	1	27619-97-2		01/03/2023 21:10
PFHpS	ND	1.9	0.67	0.67	1	375-92-8		01/03/2023 21:10
PFNA	ND	2.0	0.80	0.80	1	375-95-1		01/03/2023 21:10
PFOSAm	ND	2.0	0.72	0.72	1	754-91-6		01/03/2023 21:10
PFOS	ND	1.9	0.67	0.67	1	1763-23-1		01/03/2023 21:10
MeFOSA	ND	2.0	0.55	0.55	1	31506-32-8		01/03/2023 21:10
PFDA	ND	2.0	0.61	0.61	1	335-76-2		01/03/2023 21:10
EtFOSAm	ND	2.0	0.57	0.57	1	4151-50-2		01/03/2023 21:10
8:2 FTS	ND	1.9	0.50	0.50	1	39108-34-4		01/03/2023 21:10
9-CI-PF3ON	ND	1.9	0.47	0.47	1	756426-58-1		01/03/2023 21:10
PFNS	ND	1.9	0.59	0.59	1	68259-12-1		01/03/2023 21:10
PFUnDA	ND	2.0	0.49	0.49	1	2058-94-8		01/03/2023 21:10
NMeFOSAA	ND	2.0	0.70	0.70	1	2355-31-9		01/03/2023 21:10
NEtFOSAA	ND	2.0	0.82	0.82	1	2991-50-6		01/03/2023 21:10
PFDS	ND	1.9	0.64	0.64	1	335-77-3		01/03/2023 21:10
PFDOA	ND	2.0	0.48	0.48	1	307-55-1		01/03/2023 21:10
MeFOSE	ND	2.0	0.52	0.52	1	24448-09-7		01/03/2023 21:10
EtFOSE	ND	2.0	0.89	0.89	1	1691-99-2		01/03/2023 21:10
11-CI-PF3OUdS	ND	1.9	0.56	0.56	1	763051-92-9		01/03/2023 21:10
PFTTrDA	ND	2.0	0.62	0.62	1	72629-94-8		01/03/2023 21:10
PFDoS	ND	1.9	0.59	0.59	1	79780-39-5		01/03/2023 21:10
PFTDA	ND	2.0	0.60	0.60	1	376-06-7		01/03/2023 21:10

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-FB1-0
 Lab Sample ID 10635405028
 Lab File ID B230103C_010
 Matrix Water
 Collected 11/28/2022 09:15
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 250mL
 Ical ID 230103A02
 CCal File B230103C_002
 Ending CCal File B230103C_014
 Blank File B230103C_004

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	20	22	111	25-150		01/03/2023 21:10
13C5 PFPeA	20	22	111	25-150		01/03/2023 21:10
13C3 PFBS	19	20	109	25-150		01/03/2023 21:10
13C2 4:2FTS	19	21	112	25-150		01/03/2023 21:10
13C5 PFHxA	20	22	111	25-150		01/03/2023 21:10
13C4 PFHpA	20	23	115	25-150		01/03/2023 21:10
13C3 PFHxS	19	22	118	25-150		01/03/2023 21:10
13C2 6:2FTS	19	21	110	25-150		01/03/2023 21:10
13C8 PFOA	20	23	115	25-150		01/03/2023 21:10
13C9 PFNA	20	23	116	25-150		01/03/2023 21:10
13C8 PFOS	19	19	100	25-150		01/03/2023 21:10
13C2 8:2FTS	19	20	105	25-150		01/03/2023 21:10
13C6 PFDA	20	19	93	25-150		01/03/2023 21:10
d3-MeFOSAA	20	20	100	25-150		01/03/2023 21:10
13C8 PFOSA	20	18	89	25-150		01/03/2023 21:10
d5-EtFOSAA	20	21	107	25-150		01/03/2023 21:10
13C7 PFUdA	20	21	107	25-150		01/03/2023 21:10
13C2 PFDoA	20	20	99	25-150		01/03/2023 21:10
13C2 PFTeDA	20	18	90	25-150		01/03/2023 21:10
13C3 HFPO-DA	20	22	109	25-150		01/03/2023 21:10
d7-N-MeFOSE	20	17	84	10-150		01/03/2023 21:10
d9-N-EtFOSE	20	18	89	10-150		01/03/2023 21:10
d3-N-MeFOSA	20	13	63	10-150		01/03/2023 21:10
d5-N-EtFOSA	20	12	60	10-150		01/03/2023 21:10

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-FB1-0
 Lab Sample ID 10635405028
 Lab File ID B230103C_010
 Matrix Water
 Collected 11/28/2022 09:15
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 250mL
 Ical ID 230103A02
 CCal File B230103C_002
 Ending CCal File B230103C_014
 Blank File B230103C_004

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.16	4.14	31		01/03/2023 21:10
13C5 PFPeA	N/A	N/A	5.04	5.06	31		01/03/2023 21:10
13C3 PFBS	N/A	N/A	6.03	6.02	26		01/03/2023 21:10
13C2 4:2FTS	N/A	N/A	5.46	5.47	11		01/03/2023 21:10
13C5 PFHxA	N/A	N/A	5.76	5.76	18		01/03/2023 21:10
13C4 PFHpA	N/A	N/A	6.44	6.45	22		01/03/2023 21:10
13C3 PFHxS	N/A	N/A	7.52	7.54	28		01/03/2023 21:10
13C2 6:2FTS	N/A	N/A	6.76	6.77	28		01/03/2023 21:10
13C8 PFOA	N/A	N/A	7.10	7.11	28		01/03/2023 21:10
13C9 PFNA	N/A	N/A	7.75	7.78	24		01/03/2023 21:10
13C8 PFOS	N/A	N/A	8.89	8.96	29		01/03/2023 21:10
13C2 8:2FTS	N/A	N/A	8.02	8.07	39		01/03/2023 21:10
13C6 PFDA	N/A	N/A	8.40	8.46	11		01/03/2023 21:10
d3-MeFOSAA	N/A	N/A	8.26	8.31	23		01/03/2023 21:10
13C8 PFOSA	N/A	N/A	10.47	10.54	12		01/03/2023 21:10
d5-EtFOSAA	N/A	N/A	8.55	8.61	13		01/03/2023 21:10
13C7 PFUdA	N/A	N/A	9.07	9.16	30		01/03/2023 21:10
13C2 PFDoA	N/A	N/A	9.74	9.85	12		01/03/2023 21:10
13C2 PFTeDA	N/A	N/A	11.04	11.19	16		01/03/2023 21:10
13C3 HFPO-DA	N/A	N/A	6.04	6.04	23		01/03/2023 21:10
d7-N-MeFOSE	N/A	N/A	12.39	12.51	42		01/03/2023 21:10
d9-N-EtFOSE	N/A	N/A	12.87	12.97	53		01/03/2023 21:10
d3-N-MeFOSA	N/A	N/A	12.59	12.70	67		01/03/2023 21:10
d5-N-EtFOSA	N/A	N/A	13.03	13.11	74		01/03/2023 21:10

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-FB1-0
 Lab Sample ID 10635405028
 Lab File ID B230103C_010
 Matrix Water
 Collected 11/28/2022 09:15
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 250mL
 Ical ID 230103A02
 CCal File B230103C_002
 Ending CCal File B230103C_014
 Blank File B230103C_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.17	4.14	ND		01/03/2023 21:10
PFPeA	N/A	N/A	5.05	5.05	ND		01/03/2023 21:10
HFPO-DA	0.28	0.28	6.05	6.05	ND		01/03/2023 21:10
PFBS	0.42	0.45	6.03	6.03	ND		01/03/2023 21:10
PFHxA	0.17	0.07	5.77	5.76	ND		01/03/2023 21:10
4:2 FTS	0.00	0.80	0.00	5.48	ND		01/03/2023 21:10
PFPeS	0.00	0.45	0.00	6.82	ND		01/03/2023 21:10
PFHpA	0.20	0.29	6.44	6.45	ND		01/03/2023 21:10
DONA	0.00	0.62	0.00	6.70	ND		01/03/2023 21:10
PFHxS	0.47	0.37	7.54	7.55	ND		01/03/2023 21:10
PFOA	0.54	0.41	7.11	7.11	ND		01/03/2023 21:10
6:2 FTS	1.60	0.83	6.76	6.76	ND		01/03/2023 21:10
PFHpS	0.00	0.29	0.00	8.27	ND		01/03/2023 21:10
PFNA	0.13	0.16	7.76	7.79	ND		01/03/2023 21:10
PFOSAm	N/A	N/A	10.48	10.55	ND		01/03/2023 21:10
PFOS	0.22	0.37	8.90	8.99	ND		01/03/2023 21:10
MeFOSA	0.00	0.66	0.00	12.74	ND		01/03/2023 21:10
PFDA	0.00	0.16	0.00	8.47	ND		01/03/2023 21:10
EtFOSAm	0.00	0.45	0.00	13.16	ND		01/03/2023 21:10
8:2 FTS	0.00	0.95	0.00	8.08	ND		01/03/2023 21:10
9-CI-PF3ON	0.00	0.05	0.00	9.49	ND		01/03/2023 21:10
PFNS	0.00	0.48	0.00	9.68	ND		01/03/2023 21:10
PFUnDA	0.00	0.14	0.00	9.17	ND		01/03/2023 21:10
NMeFOSAA	0.00	0.72	0.00	8.32	ND		01/03/2023 21:10
NEtFOSAA	0.00	0.60	0.00	8.62	ND		01/03/2023 21:10
PFDS	0.00	0.36	0.00	10.35	ND		01/03/2023 21:10
PFDOA	0.00	0.18	0.00	9.86	ND		01/03/2023 21:10
MeFOSE	N/A	N/A	0.00	12.55	ND		01/03/2023 21:10
EtFOSE	0.00	0.00	0.00	13.04	ND		01/03/2023 21:10
11-CI-PF3OUdS	0.00	0.02	0.00	10.84	ND		01/03/2023 21:10
PFTTrDA	0.00	0.17	0.00	10.54	ND		01/03/2023 21:10
PFDoS	0.00	0.45	0.00	11.61	ND		01/03/2023 21:10
PFTDA	0.19	0.21	11.04	11.21	ND		01/03/2023 21:10

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-FB2-0
 Lab Sample ID 10635405029
 Lab File ID B230103C_011
 Matrix Water
 Collected 11/28/2022 11:50
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 252mL
 Ical ID 230103A02
 CCal File B230103C_002
 Ending CCal File B230103C_014
 Blank File B230103C_004

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	2.0	0.50	0.50	1	375-22-4		01/03/2023 21:30
PFPeA	ND	2.0	0.82	0.82	1	2706-90-3		01/03/2023 21:30
HFPO-DA	ND	2.0	0.49	0.49	1	13252-13-6		01/03/2023 21:30
PFBS	ND	1.8	0.48	0.48	1	375-73-5		01/03/2023 21:30
PFHxA	ND	2.0	0.90	0.90	1	307-24-4		01/03/2023 21:30
4:2 FTS	ND	1.9	0.46	0.46	1	757124-72-4		01/03/2023 21:30
PFPeS	ND	1.9	0.60	0.60	1	2706-91-4		01/03/2023 21:30
PFHpA	ND	2.0	0.68	0.68	1	375-85-9		01/03/2023 21:30
DONA	ND	1.9	0.91	0.91	1	919005-14-4		01/03/2023 21:30
PFHxS	ND	1.8	0.53	0.53	1	355-46-4		01/03/2023 21:30
PFOA	ND	2.0	0.85	0.85	1	335-67-1		01/03/2023 21:30
6:2 FTS	ND	1.9	0.67	0.67	1	27619-97-2		01/03/2023 21:30
PFHpS	ND	1.9	0.66	0.66	1	375-92-8		01/03/2023 21:30
PFNA	ND	2.0	0.79	0.79	1	375-95-1		01/03/2023 21:30
PFOSAm	ND	2.0	0.71	0.71	1	754-91-6		01/03/2023 21:30
PFOS	ND	1.8	0.66	0.66	1	1763-23-1		01/03/2023 21:30
MeFOSA	ND	2.0	0.55	0.55	1	31506-32-8		01/03/2023 21:30
PFDA	ND	2.0	0.60	0.60	1	335-76-2		01/03/2023 21:30
EtFOSAm	ND	2.0	0.57	0.57	1	4151-50-2		01/03/2023 21:30
8:2 FTS	ND	1.9	0.50	0.50	1	39108-34-4		01/03/2023 21:30
9-CI-PF3ON	ND	1.9	0.47	0.47	1	756426-58-1		01/03/2023 21:30
PFNS	ND	1.9	0.58	0.58	1	68259-12-1		01/03/2023 21:30
PFUnDA	ND	2.0	0.48	0.48	1	2058-94-8		01/03/2023 21:30
NMeFOSAA	ND	2.0	0.69	0.69	1	2355-31-9		01/03/2023 21:30
NEtFOSAA	ND	2.0	0.81	0.81	1	2991-50-6		01/03/2023 21:30
PFDS	ND	1.9	0.64	0.64	1	335-77-3		01/03/2023 21:30
PFDOA	ND	2.0	0.48	0.48	1	307-55-1		01/03/2023 21:30
MeFOSE	ND	2.0	0.52	0.52	1	24448-09-7		01/03/2023 21:30
EtFOSE	ND	2.0	0.88	0.88	1	1691-99-2		01/03/2023 21:30
11-CI-PF3OUdS	ND	1.9	0.55	0.55	1	763051-92-9		01/03/2023 21:30
PFTTrDA	ND	2.0	0.62	0.62	1	72629-94-8		01/03/2023 21:30
PFDoS	ND	1.9	0.59	0.59	1	79780-39-5		01/03/2023 21:30
PFTDA	ND	2.0	0.60	0.60	1	376-06-7		01/03/2023 21:30

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-FB2-0
 Lab Sample ID 10635405029
 Lab File ID B230103C_011
 Matrix Water
 Collected 11/28/2022 11:50
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 252mL
 Ical ID 230103A02
 CCal File B230103C_002
 Ending CCal File B230103C_014
 Blank File B230103C_004

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	20	20	102	25-150		01/03/2023 21:30
13C5 PFPeA	20	20	100	25-150		01/03/2023 21:30
13C3 PFBS	18	20	111	25-150		01/03/2023 21:30
13C2 4:2FTS	19	21	111	25-150		01/03/2023 21:30
13C5 PFHxA	20	20	103	25-150		01/03/2023 21:30
13C4 PFHpA	20	21	104	25-150		01/03/2023 21:30
13C3 PFHxS	19	21	113	25-150		01/03/2023 21:30
13C2 6:2FTS	19	18	94	25-150		01/03/2023 21:30
13C8 PFOA	20	21	106	25-150		01/03/2023 21:30
13C9 PFNA	20	20	103	25-150		01/03/2023 21:30
13C8 PFOS	19	16	82	25-150		01/03/2023 21:30
13C2 8:2FTS	19	17	91	25-150		01/03/2023 21:30
13C6 PFDA	20	18	90	25-150		01/03/2023 21:30
d3-MeFOSAA	20	21	106	25-150		01/03/2023 21:30
13C8 PFOSA	20	17	85	25-150		01/03/2023 21:30
d5-EtFOSAA	20	18	93	25-150		01/03/2023 21:30
13C7 PFUdA	20	19	95	25-150		01/03/2023 21:30
13C2 PFDoA	20	18	93	25-150		01/03/2023 21:30
13C2 PFTeDA	20	17	83	25-150		01/03/2023 21:30
13C3 HFPO-DA	20	20	103	25-150		01/03/2023 21:30
d7-N-MeFOSE	20	16	81	10-150		01/03/2023 21:30
d9-N-EtFOSE	20	17	85	10-150		01/03/2023 21:30
d3-N-MeFOSA	20	13	67	10-150		01/03/2023 21:30
d5-N-EtFOSA	20	13	67	10-150		01/03/2023 21:30

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-FB2-0
 Lab Sample ID 10635405029
 Lab File ID B230103C_011
 Matrix Water
 Collected 11/28/2022 11:50
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 252mL
 Ical ID 230103A02
 CCal File B230103C_002
 Ending CCal File B230103C_014
 Blank File B230103C_004

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.16	4.14	25		01/03/2023 21:30
13C5 PFPeA	N/A	N/A	5.04	5.06	25		01/03/2023 21:30
13C3 PFBS	N/A	N/A	6.03	6.02	23		01/03/2023 21:30
13C2 4:2FTS	N/A	N/A	5.46	5.47	86		01/03/2023 21:30
13C5 PFHxA	N/A	N/A	5.76	5.76	22		01/03/2023 21:30
13C4 PFHpA	N/A	N/A	6.44	6.45	21		01/03/2023 21:30
13C3 PFHxS	N/A	N/A	7.53	7.54	26		01/03/2023 21:30
13C2 6:2FTS	N/A	N/A	6.76	6.77	25		01/03/2023 21:30
13C8 PFOA	N/A	N/A	7.11	7.11	23		01/03/2023 21:30
13C9 PFNA	N/A	N/A	7.76	7.78	20		01/03/2023 21:30
13C8 PFOS	N/A	N/A	8.90	8.96	21		01/03/2023 21:30
13C2 8:2FTS	N/A	N/A	8.04	8.07	69		01/03/2023 21:30
13C6 PFDA	N/A	N/A	8.42	8.46	27		01/03/2023 21:30
d3-MeFOSAA	N/A	N/A	8.28	8.31	16		01/03/2023 21:30
13C8 PFOSA	N/A	N/A	10.48	10.54	11		01/03/2023 21:30
d5-EtFOSAA	N/A	N/A	8.56	8.61	15		01/03/2023 21:30
13C7 PFUdA	N/A	N/A	9.08	9.16	20		01/03/2023 21:30
13C2 PFDaA	N/A	N/A	9.75	9.85	17		01/03/2023 21:30
13C2 PFTeDA	N/A	N/A	11.05	11.19	13		01/03/2023 21:30
13C3 HFPO-DA	N/A	N/A	6.04	6.04	19		01/03/2023 21:30
d7-N-MeFOSE	N/A	N/A	12.39	12.51	42		01/03/2023 21:30
d9-N-EtFOSE	N/A	N/A	12.85	12.97	51		01/03/2023 21:30
d3-N-MeFOSA	N/A	N/A	12.58	12.70	58		01/03/2023 21:30
d5-N-EtFOSA	N/A	N/A	13.01	13.01	76		01/03/2023 21:30

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-FB2-0
 Lab Sample ID 10635405029
 Lab File ID B230103C_011
 Matrix Water
 Collected 11/28/2022 11:50
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 252mL
 Ical ID 230103A02
 CCal File B230103C_002
 Ending CCal File B230103C_014
 Blank File B230103C_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.16	4.14	ND		01/03/2023 21:30
PFPeA	N/A	N/A	5.05	5.05	ND		01/03/2023 21:30
HFPO-DA	0.36	0.28	6.05	6.05	ND		01/03/2023 21:30
PFBS	0.51	0.45	6.03	6.03	ND		01/03/2023 21:30
PFHxA	0.15	0.07	5.76	5.76	ND		01/03/2023 21:30
4:2 FTS	0.00	0.80	0.00	5.48	ND		01/03/2023 21:30
PFPeS	0.00	0.45	0.00	6.82	ND		01/03/2023 21:30
PFHpA	0.40	0.29	6.45	6.45	ND		01/03/2023 21:30
DONA	0.00	0.62	0.00	6.70	ND		01/03/2023 21:30
PFHxS	0.00	0.37	0.00	7.55	ND		01/03/2023 21:30
PFOA	0.37	0.41	7.12	7.11	ND		01/03/2023 21:30
6:2 FTS	1.50	0.83	6.77	6.76	ND		01/03/2023 21:30
PFHpS	0.00	0.29	0.00	8.27	ND		01/03/2023 21:30
PFNA	0.00	0.16	0.00	7.79	ND		01/03/2023 21:30
PFOSAm	N/A	N/A	10.49	10.55	ND		01/03/2023 21:30
PFOS	0.30	0.37	8.91	8.99	ND		01/03/2023 21:30
MeFOSA	0.00	0.66	0.00	12.74	ND		01/03/2023 21:30
PFDA	0.15	0.16	8.44	8.47	ND		01/03/2023 21:30
EtFOSAm	0.00	0.45	0.00	13.16	ND		01/03/2023 21:30
8:2 FTS	0.00	0.95	0.00	8.08	ND		01/03/2023 21:30
9-CI-PF3ON	0.00	0.05	0.00	9.49	ND		01/03/2023 21:30
PFNS	0.00	0.48	0.00	9.68	ND		01/03/2023 21:30
PFUnDA	0.00	0.14	0.00	9.17	ND		01/03/2023 21:30
NMeFOSAA	0.00	0.72	0.00	8.32	ND		01/03/2023 21:30
NEtFOSAA	0.00	0.60	0.00	8.62	ND		01/03/2023 21:30
PFDS	0.00	0.36	0.00	10.35	ND		01/03/2023 21:30
PFDOA	0.23	0.18	9.76	9.86	ND		01/03/2023 21:30
MeFOSE	N/A	N/A	0.00	12.55	ND		01/03/2023 21:30
EtFOSE	0.00	0.00	0.00	13.04	ND		01/03/2023 21:30
11-CI-PF3OUdS	0.00	0.02	0.00	10.84	ND		01/03/2023 21:30
PFTTrDA	0.00	0.17	0.00	10.54	ND		01/03/2023 21:30
PFDoS	0.00	0.45	0.00	11.61	ND		01/03/2023 21:30
PFTDA	0.23	0.21	11.05	11.21	ND		01/03/2023 21:30

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-FB3-0
 Lab Sample ID 10635405030
 Lab File ID B230103C_012
 Matrix Water
 Collected 11/29/2022 14:25
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 256mL
 Ical ID 230103A02
 CCal File B230103C_002
 Ending CCal File B230103C_014
 Blank File B230103C_004

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	2.0	0.49	0.49	1	375-22-4		01/03/2023 21:50
PFPeA	ND	2.0	0.80	0.80	1	2706-90-3		01/03/2023 21:50
HFPO-DA	ND	2.0	0.48	0.48	1	13252-13-6		01/03/2023 21:50
PFBS	ND	1.7	0.47	0.47	1	375-73-5		01/03/2023 21:50
PFHxA	ND	2.0	0.89	0.89	1	307-24-4		01/03/2023 21:50
4:2 FTS	ND	1.8	0.45	0.45	1	757124-72-4		01/03/2023 21:50
PFPeS	ND	1.8	0.59	0.59	1	2706-91-4		01/03/2023 21:50
PFHpA	ND	2.0	0.67	0.67	1	375-85-9		01/03/2023 21:50
DONA	ND	1.8	0.90	0.90	1	919005-14-4		01/03/2023 21:50
PFHxS	ND	1.8	0.52	0.52	1	355-46-4		01/03/2023 21:50
PFOA	ND	2.0	0.84	0.84	1	335-67-1		01/03/2023 21:50
6:2 FTS	ND	1.9	0.66	0.66	1	27619-97-2		01/03/2023 21:50
PFHpS	ND	1.9	0.65	0.65	1	375-92-8		01/03/2023 21:50
PFNA	ND	2.0	0.77	0.77	1	375-95-1		01/03/2023 21:50
PFOSAm	ND	2.0	0.70	0.70	1	754-91-6		01/03/2023 21:50
PFOS	ND	1.8	0.65	0.65	1	1763-23-1		01/03/2023 21:50
MeFOSA	ND	2.0	0.54	0.54	1	31506-32-8		01/03/2023 21:50
PFDA	ND	2.0	0.59	0.59	1	335-76-2		01/03/2023 21:50
EtFOSAm	ND	2.0	0.56	0.56	1	4151-50-2		01/03/2023 21:50
8:2 FTS	ND	1.9	0.49	0.49	1	39108-34-4		01/03/2023 21:50
9-CI-PF3ON	ND	1.8	0.46	0.46	1	756426-58-1		01/03/2023 21:50
PFNS	ND	1.9	0.57	0.57	1	68259-12-1		01/03/2023 21:50
PFUnDA	ND	2.0	0.47	0.47	1	2058-94-8		01/03/2023 21:50
NMeFOSAA	ND	2.0	0.68	0.68	1	2355-31-9		01/03/2023 21:50
NEtFOSAA	ND	2.0	0.79	0.79	1	2991-50-6		01/03/2023 21:50
PFDS	ND	1.9	0.63	0.63	1	335-77-3		01/03/2023 21:50
PFDOA	ND	2.0	0.47	0.47	1	307-55-1		01/03/2023 21:50
MeFOSE	ND	2.0	0.51	0.51	1	24448-09-7		01/03/2023 21:50
EtFOSE	ND	2.0	0.87	0.87	1	1691-99-2		01/03/2023 21:50
11-CI-PF3OUdS	ND	1.8	0.54	0.54	1	763051-92-9		01/03/2023 21:50
PFTTrDA	ND	2.0	0.61	0.61	1	72629-94-8		01/03/2023 21:50
PFDoS	ND	1.9	0.58	0.58	1	79780-39-5		01/03/2023 21:50
PFTDA	ND	2.0	0.59	0.59	1	376-06-7		01/03/2023 21:50

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-FB3-0
 Lab Sample ID 10635405030
 Lab File ID B230103C_012
 Matrix Water
 Collected 11/29/2022 14:25
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 256mL
 Ical ID 230103A02
 CCal File B230103C_002
 Ending CCal File B230103C_014
 Blank File B230103C_004

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	20	21	109	25-150		01/03/2023 21:50
13C5 PFPeA	20	21	106	25-150		01/03/2023 21:50
13C3 PFBS	18	19	104	25-150		01/03/2023 21:50
13C2 4:2FTS	18	21	113	25-150		01/03/2023 21:50
13C5 PFHxA	20	20	104	25-150		01/03/2023 21:50
13C4 PFHpA	20	20	104	25-150		01/03/2023 21:50
13C3 PFHxS	18	21	115	25-150		01/03/2023 21:50
13C2 6:2FTS	19	17	92	25-150		01/03/2023 21:50
13C8 PFOA	20	22	113	25-150		01/03/2023 21:50
13C9 PFNA	20	20	101	25-150		01/03/2023 21:50
13C8 PFOS	19	18	95	25-150		01/03/2023 21:50
13C2 8:2FTS	19	17	93	25-150		01/03/2023 21:50
13C6 PFDA	20	17	89	25-150		01/03/2023 21:50
d3-MeFOSAA	20	20	104	25-150		01/03/2023 21:50
13C8 PFOSA	20	18	92	25-150		01/03/2023 21:50
d5-EtFOSAA	20	18	92	25-150		01/03/2023 21:50
13C7 PFUdA	20	20	100	25-150		01/03/2023 21:50
13C2 PFDoA	20	19	100	25-150		01/03/2023 21:50
13C2 PFTeDA	20	19	98	25-150		01/03/2023 21:50
13C3 HFPO-DA	20	22	115	25-150		01/03/2023 21:50
d7-N-MeFOSE	20	16	84	10-150		01/03/2023 21:50
d9-N-EtFOSE	20	18	93	10-150		01/03/2023 21:50
d3-N-MeFOSA	20	12	60	10-150		01/03/2023 21:50
d5-N-EtFOSA	20	13	68	10-150		01/03/2023 21:50

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	MEWI-S-FB3-0	Total Amount Extracted	256mL
Lab Sample ID	10635405030	Ical ID	230103A02
Lab File ID	B230103C_012	CCal File	B230103C_002
Matrix	Water	Ending CCal File	B230103C_014
Collected	11/29/2022 14:25	Blank File	B230103C_004
Received	12/01/2022 08:50		
Extraction Date	12/29/2022 15:15		

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.17	4.14	29		01/03/2023 21:50
13C5 PFPeA	N/A	N/A	5.05	5.06	30		01/03/2023 21:50
13C3 PFBS	N/A	N/A	6.03	6.02	27		01/03/2023 21:50
13C2 4:2FTS	N/A	N/A	5.46	5.47	84		01/03/2023 21:50
13C5 PFHxA	N/A	N/A	5.75	5.76	19		01/03/2023 21:50
13C4 PFHpA	N/A	N/A	6.43	6.45	22		01/03/2023 21:50
13C3 PFHxS	N/A	N/A	7.52	7.54	30		01/03/2023 21:50
13C2 6:2FTS	N/A	N/A	6.75	6.77	25		01/03/2023 21:50
13C8 PFOA	N/A	N/A	7.09	7.11	27		01/03/2023 21:50
13C9 PFNA	N/A	N/A	7.74	7.78	18		01/03/2023 21:50
13C8 PFOS	N/A	N/A	8.91	8.96	23		01/03/2023 21:50
13C2 8:2FTS	N/A	N/A	8.03	8.07	18		01/03/2023 21:50
13C6 PFDA	N/A	N/A	8.41	8.46	12		01/03/2023 21:50
d3-MeFOSAA	N/A	N/A	8.27	8.31	20		01/03/2023 21:50
13C8 PFOSA	N/A	N/A	10.49	10.54	12		01/03/2023 21:50
d5-EtFOSAA	N/A	N/A	8.56	8.61	15		01/03/2023 21:50
13C7 PFUdA	N/A	N/A	9.09	9.16	23		01/03/2023 21:50
13C2 PFDaA	N/A	N/A	9.76	9.85	17		01/03/2023 21:50
13C2 PFTeDA	N/A	N/A	11.06	11.19	11		01/03/2023 21:50
13C3 HFPO-DA	N/A	N/A	6.03	6.04	24		01/03/2023 21:50
d7-N-MeFOSE	N/A	N/A	12.37	12.51	34		01/03/2023 21:50
d9-N-EtFOSE	N/A	N/A	12.85	12.97	52		01/03/2023 21:50
d3-N-MeFOSA	N/A	N/A	12.57	12.70	57		01/03/2023 21:50
d5-N-EtFOSA	N/A	N/A	13.00	13.00	80		01/03/2023 21:50

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-FB3-0
 Lab Sample ID 10635405030
 Lab File ID B230103C_012
 Matrix Water
 Collected 11/29/2022 14:25
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 256mL
 Ical ID 230103A02
 CCal File B230103C_002
 Ending CCal File B230103C_014
 Blank File B230103C_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.17	4.14	ND		01/03/2023 21:50
PFPeA	N/A	N/A	5.05	5.05	ND		01/03/2023 21:50
HFPO-DA	0.43	0.28	6.05	6.05	ND		01/03/2023 21:50
PFBS	0.37	0.45	6.03	6.03	ND		01/03/2023 21:50
PFHxA	0.17	0.07	5.76	5.76	ND		01/03/2023 21:50
4:2 FTS	0.00	0.80	0.00	5.48	ND		01/03/2023 21:50
PFPeS	0.00	0.45	0.00	6.82	ND		01/03/2023 21:50
PFHpA	0.37	0.29	6.44	6.45	ND		01/03/2023 21:50
DONA	0.00	0.62	0.00	6.70	ND		01/03/2023 21:50
PFHxS	0.32	0.37	7.53	7.55	ND		01/03/2023 21:50
PFOA	0.29	0.41	7.10	7.11	ND		01/03/2023 21:50
6:2 FTS	1.00	0.83	6.75	6.76	ND		01/03/2023 21:50
PFHpS	0.00	0.29	0.00	8.27	ND		01/03/2023 21:50
PFNA	0.22	0.16	7.76	7.79	ND		01/03/2023 21:50
PFOSAm	N/A	N/A	10.50	10.55	ND		01/03/2023 21:50
PFOS	0.45	0.37	8.92	8.99	ND		01/03/2023 21:50
MeFOSA	0.00	0.66	0.00	12.74	ND		01/03/2023 21:50
PFDA	0.07	0.16	8.43	8.47	ND		01/03/2023 21:50
EtFOSAm	0.00	0.45	0.00	13.16	ND		01/03/2023 21:50
8:2 FTS	0.00	0.95	0.00	8.08	ND		01/03/2023 21:50
9-CI-PF3ON	0.00	0.05	0.00	9.49	ND		01/03/2023 21:50
PFNS	0.00	0.48	0.00	9.68	ND		01/03/2023 21:50
PFUnDA	0.00	0.14	0.00	9.17	ND		01/03/2023 21:50
NMeFOSAA	0.00	0.72	0.00	8.32	ND		01/03/2023 21:50
NEtFOSAA	0.00	0.60	0.00	8.62	ND		01/03/2023 21:50
PFDS	0.00	0.36	0.00	10.35	ND		01/03/2023 21:50
PFDOA	0.00	0.18	0.00	9.86	ND		01/03/2023 21:50
MeFOSE	N/A	N/A	0.00	12.55	ND		01/03/2023 21:50
EtFOSE	0.00	0.00	0.00	13.04	ND		01/03/2023 21:50
11-CI-PF3OUdS	0.00	0.02	0.00	10.84	ND		01/03/2023 21:50
PFTTrDA	0.00	0.17	0.00	10.54	ND		01/03/2023 21:50
PFDoS	0.00	0.45	0.00	11.61	ND		01/03/2023 21:50
PFTDA	0.33	0.21	11.06	11.21	ND		01/03/2023 21:50

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-TB1-0
 Lab Sample ID 10635405031
 Lab File ID B230103C_013
 Matrix Water
 Collected 11/28/2022 08:00
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 261mL
 Ical ID 230103A02
 CCal File B230103C_002
 Ending CCal File B230103C_014
 Blank File B230103C_004

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	1.9	0.48	0.48	1	375-22-4		01/03/2023 22:10
PFPeA	ND	1.9	0.79	0.79	1	2706-90-3		01/03/2023 22:10
HFPO-DA	ND	1.9	0.47	0.47	1	13252-13-6		01/03/2023 22:10
PFBS	ND	1.7	0.47	0.47	1	375-73-5		01/03/2023 22:10
PFHxA	ND	1.9	0.87	0.87	1	307-24-4		01/03/2023 22:10
4:2 FTS	ND	1.8	0.45	0.45	1	757124-72-4		01/03/2023 22:10
PFPeS	ND	1.8	0.58	0.58	1	2706-91-4		01/03/2023 22:10
PFHpA	ND	1.9	0.66	0.66	1	375-85-9		01/03/2023 22:10
DONA	ND	1.8	0.88	0.88	1	919005-14-4		01/03/2023 22:10
PFHxS	ND	1.7	0.51	0.51	1	355-46-4		01/03/2023 22:10
PFOA	ND	1.9	0.83	0.83	1	335-67-1		01/03/2023 22:10
6:2 FTS	ND	1.8	0.65	0.65	1	27619-97-2		01/03/2023 22:10
PFHpS	ND	1.8	0.64	0.64	1	375-92-8		01/03/2023 22:10
PFNA	ND	1.9	0.76	0.76	1	375-95-1		01/03/2023 22:10
PFOSAm	ND	1.9	0.69	0.69	1	754-91-6		01/03/2023 22:10
PFOS	ND	1.8	0.64	0.64	1	1763-23-1		01/03/2023 22:10
MeFOSA	ND	1.9	0.53	0.53	1	31506-32-8		01/03/2023 22:10
PFDA	ND	1.9	0.58	0.58	1	335-76-2		01/03/2023 22:10
EtFOSAm	ND	1.9	0.55	0.55	1	4151-50-2		01/03/2023 22:10
8:2 FTS	ND	1.8	0.48	0.48	1	39108-34-4		01/03/2023 22:10
9-CI-PF3ON	ND	1.8	0.45	0.45	1	756426-58-1		01/03/2023 22:10
PFNS	ND	1.8	0.56	0.56	1	68259-12-1		01/03/2023 22:10
PFUnDA	ND	1.9	0.47	0.47	1	2058-94-8		01/03/2023 22:10
NMeFOSAA	ND	1.9	0.67	0.67	1	2355-31-9		01/03/2023 22:10
NEtFOSAA	ND	1.9	0.78	0.78	1	2991-50-6		01/03/2023 22:10
PFDS	ND	1.9	0.62	0.62	1	335-77-3		01/03/2023 22:10
PFDOA	ND	1.9	0.46	0.46	1	307-55-1		01/03/2023 22:10
MeFOSE	ND	1.9	0.50	0.50	1	24448-09-7		01/03/2023 22:10
EtFOSE	ND	1.9	0.85	0.85	1	1691-99-2		01/03/2023 22:10
11-CI-PF3OUdS	ND	1.8	0.53	0.53	1	763051-92-9		01/03/2023 22:10
PFTTrDA	ND	1.9	0.60	0.60	1	72629-94-8		01/03/2023 22:10
PFDoS	ND	1.9	0.57	0.57	1	79780-39-5		01/03/2023 22:10
PFTDA	ND	1.9	0.58	0.58	1	376-06-7		01/03/2023 22:10

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-TB1-0
 Lab Sample ID 10635405031
 Lab File ID B230103C_013
 Matrix Water
 Collected 11/28/2022 08:00
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 261mL
 Ical ID 230103A02
 CCal File B230103C_002
 Ending CCal File B230103C_014
 Blank File B230103C_004

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	19	21	111	25-150		01/03/2023 22:10
13C5 PFPeA	19	21	109	25-150		01/03/2023 22:10
13C3 PFBS	18	19	107	25-150		01/03/2023 22:10
13C2 4:2FTS	18	20	114	25-150		01/03/2023 22:10
13C5 PFHxA	19	21	110	25-150		01/03/2023 22:10
13C4 PFHpA	19	22	114	25-150		01/03/2023 22:10
13C3 PFHxS	18	21	113	25-150		01/03/2023 22:10
13C2 6:2FTS	18	19	102	25-150		01/03/2023 22:10
13C8 PFOA	19	23	118	25-150		01/03/2023 22:10
13C9 PFNA	19	19	98	25-150		01/03/2023 22:10
13C8 PFOS	18	15	84	25-150		01/03/2023 22:10
13C2 8:2FTS	18	17	91	25-150		01/03/2023 22:10
13C6 PFDA	19	16	84	25-150		01/03/2023 22:10
d3-MeFOSAA	19	18	95	25-150		01/03/2023 22:10
13C8 PFOSA	19	16	82	25-150		01/03/2023 22:10
d5-EtFOSAA	19	16	85	25-150		01/03/2023 22:10
13C7 PFUdA	19	17	89	25-150		01/03/2023 22:10
13C2 PFDoA	19	17	90	25-150		01/03/2023 22:10
13C2 PFTeDA	19	16	83	25-150		01/03/2023 22:10
13C3 HFPO-DA	19	21	111	25-150		01/03/2023 22:10
d7-N-MeFOSE	19	14	70	10-150		01/03/2023 22:10
d9-N-EtFOSE	19	17	89	10-150		01/03/2023 22:10
d3-N-MeFOSA	19	13	65	10-150		01/03/2023 22:10
d5-N-EtFOSA	19	13	69	10-150		01/03/2023 22:10

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	MEWI-S-TB1-0	Total Amount Extracted	261mL
Lab Sample ID	10635405031	Ical ID	230103A02
Lab File ID	B230103C_013	CCal File	B230103C_002
Matrix	Water	Ending CCal File	B230103C_014
Collected	11/28/2022 08:00	Blank File	B230103C_004
Received	12/01/2022 08:50		
Extraction Date	12/29/2022 15:15		

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.16	4.14	24		01/03/2023 22:10
13C5 PFPeA	N/A	N/A	5.05	5.06	29		01/03/2023 22:10
13C3 PFBS	N/A	N/A	6.03	6.02	23		01/03/2023 22:10
13C2 4:2FTS	N/A	N/A	5.47	5.47	12		01/03/2023 22:10
13C5 PFHxA	N/A	N/A	5.76	5.76	19		01/03/2023 22:10
13C4 PFHpA	N/A	N/A	6.44	6.45	25		01/03/2023 22:10
13C3 PFHxS	N/A	N/A	7.53	7.54	29		01/03/2023 22:10
13C2 6:2FTS	N/A	N/A	6.76	6.77	42		01/03/2023 22:10
13C8 PFOA	N/A	N/A	7.10	7.11	28		01/03/2023 22:10
13C9 PFNA	N/A	N/A	7.76	7.78	20		01/03/2023 22:10
13C8 PFOS	N/A	N/A	8.91	8.96	26		01/03/2023 22:10
13C2 8:2FTS	N/A	N/A	8.05	8.07	15		01/03/2023 22:10
13C6 PFDA	N/A	N/A	8.42	8.46	15		01/03/2023 22:10
d3-MeFOSAA	N/A	N/A	8.28	8.31	21		01/03/2023 22:10
13C8 PFOSA	N/A	N/A	10.49	10.54	10		01/03/2023 22:10
d5-EtFOSAA	N/A	N/A	8.57	8.61	18		01/03/2023 22:10
13C7 PFUdA	N/A	N/A	9.09	9.16	27		01/03/2023 22:10
13C2 PFDoA	N/A	N/A	9.76	9.85	15		01/03/2023 22:10
13C2 PFTeDA	N/A	N/A	11.07	11.19	12		01/03/2023 22:10
13C3 HFPO-DA	N/A	N/A	6.04	6.04	23		01/03/2023 22:10
d7-N-MeFOSE	N/A	N/A	12.40	12.51	38		01/03/2023 22:10
d9-N-EtFOSE	N/A	N/A	12.88	12.88	45		01/03/2023 22:10
d3-N-MeFOSA	N/A	N/A	12.60	12.70	56		01/03/2023 22:10
d5-N-EtFOSA	N/A	N/A	13.03	13.11	68		01/03/2023 22:10

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-TB1-0
 Lab Sample ID 10635405031
 Lab File ID B230103C_013
 Matrix Water
 Collected 11/28/2022 08:00
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 261mL
 Ical ID 230103A02
 CCal File B230103C_002
 Ending CCal File B230103C_014
 Blank File B230103C_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.17	4.14	ND		01/03/2023 22:10
PFPeA	N/A	N/A	5.06	5.05	ND		01/03/2023 22:10
HFPO-DA	0.34	0.28	6.05	6.05	ND		01/03/2023 22:10
PFBS	0.46	0.45	6.04	6.03	ND		01/03/2023 22:10
PFHxA	0.12	0.07	5.76	5.76	ND		01/03/2023 22:10
4:2 FTS	0.00	0.80	0.00	5.48	ND		01/03/2023 22:10
PFPeS	0.00	0.45	0.00	6.82	ND		01/03/2023 22:10
PFHpA	0.33	0.29	6.45	6.45	ND		01/03/2023 22:10
DONA	0.00	0.62	0.00	6.70	ND		01/03/2023 22:10
PFHxS	0.48	0.37	7.53	7.55	ND		01/03/2023 22:10
PFOA	0.38	0.41	7.11	7.11	ND		01/03/2023 22:10
6:2 FTS	1.20	0.83	6.76	6.76	ND		01/03/2023 22:10
PFHpS	0.00	0.29	0.00	8.27	ND		01/03/2023 22:10
PFNA	0.19	0.16	7.77	7.79	ND		01/03/2023 22:10
PFOSAm	N/A	N/A	10.49	10.55	ND		01/03/2023 22:10
PFOS	0.42	0.37	8.93	8.99	ND		01/03/2023 22:10
MeFOSA	0.00	0.66	0.00	12.74	ND		01/03/2023 22:10
PFDA	0.00	0.16	0.00	8.47	ND		01/03/2023 22:10
EtFOSAm	0.00	0.45	0.00	13.16	ND		01/03/2023 22:10
8:2 FTS	0.00	0.95	0.00	8.08	ND		01/03/2023 22:10
9-CI-PF3ON	0.00	0.05	0.00	9.49	ND		01/03/2023 22:10
PFNS	0.00	0.48	0.00	9.68	ND		01/03/2023 22:10
PFUnDA	0.00	0.14	0.00	9.17	ND		01/03/2023 22:10
NMeFOSAA	0.00	0.72	0.00	8.32	ND		01/03/2023 22:10
NEtFOSAA	0.00	0.60	0.00	8.62	ND		01/03/2023 22:10
PFDS	0.00	0.36	0.00	10.35	ND		01/03/2023 22:10
PFDOA	0.00	0.18	0.00	9.86	ND		01/03/2023 22:10
MeFOSE	N/A	N/A	0.00	12.55	ND		01/03/2023 22:10
EtFOSE	0.00	0.00	0.00	13.04	ND		01/03/2023 22:10
11-CI-PF3OUdS	0.00	0.02	0.00	10.84	ND		01/03/2023 22:10
PFTTrDA	0.00	0.17	0.00	10.54	ND		01/03/2023 22:10
PFDoS	0.00	0.45	0.00	11.61	ND		01/03/2023 22:10
PFTDA	0.40	0.21	11.10	11.21	ND		01/03/2023 22:10

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-TB2-0
 Lab Sample ID 10635405032
 Lab File ID B230103C_015
 Matrix Water
 Collected 11/28/2022 08:00
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 257mL
 Ical ID 230103A02
 CCal File B230103C_014
 Ending CCal File B230103C_025
 Blank File B230103C_004

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	1.9	0.48	0.48	1	375-22-4		01/03/2023 22:50
PFPeA	ND	1.9	0.80	0.80	1	2706-90-3		01/03/2023 22:50
HFPO-DA	ND	1.9	0.48	0.48	1	13252-13-6		01/03/2023 22:50
PFBS	ND	1.7	0.47	0.47	1	375-73-5		01/03/2023 22:50
PFHxA	ND	1.9	0.88	0.88	1	307-24-4		01/03/2023 22:50
4:2 FTS	ND	1.8	0.45	0.45	1	757124-72-4		01/03/2023 22:50
PFPeS	ND	1.8	0.58	0.58	1	2706-91-4		01/03/2023 22:50
PFHpA	ND	1.9	0.67	0.67	1	375-85-9		01/03/2023 22:50
DONA	ND	1.8	0.89	0.89	1	919005-14-4		01/03/2023 22:50
PFHxS	ND	1.8	0.52	0.52	1	355-46-4		01/03/2023 22:50
PFOA	ND	1.9	0.84	0.84	1	335-67-1		01/03/2023 22:50
6:2 FTS	ND	1.8	0.66	0.66	1	27619-97-2		01/03/2023 22:50
PFHpS	ND	1.8	0.65	0.65	1	375-92-8		01/03/2023 22:50
PFNA	ND	1.9	0.77	0.77	1	375-95-1		01/03/2023 22:50
PFOSAm	ND	1.9	0.70	0.70	1	754-91-6		01/03/2023 22:50
PFOS	ND	1.8	0.65	0.65	1	1763-23-1		01/03/2023 22:50
MeFOSA	ND	1.9	0.54	0.54	1	31506-32-8		01/03/2023 22:50
PFDA	ND	1.9	0.59	0.59	1	335-76-2		01/03/2023 22:50
EtFOSAm	ND	1.9	0.56	0.56	1	4151-50-2		01/03/2023 22:50
8:2 FTS	ND	1.9	0.49	0.49	1	39108-34-4		01/03/2023 22:50
9-CI-PF3ON	ND	1.8	0.46	0.46	1	756426-58-1		01/03/2023 22:50
PFNS	ND	1.9	0.57	0.57	1	68259-12-1		01/03/2023 22:50
PFUnDA	ND	1.9	0.47	0.47	1	2058-94-8		01/03/2023 22:50
NMeFOSAA	ND	1.9	0.67	0.67	1	2355-31-9		01/03/2023 22:50
NEtFOSAA	ND	1.9	0.79	0.79	1	2991-50-6		01/03/2023 22:50
PFDS	ND	1.9	0.62	0.62	1	335-77-3		01/03/2023 22:50
PFDOA	ND	1.9	0.47	0.47	1	307-55-1		01/03/2023 22:50
MeFOSE	ND	1.9	0.51	0.51	1	24448-09-7		01/03/2023 22:50
EtFOSE	ND	1.9	0.86	0.86	1	1691-99-2		01/03/2023 22:50
11-CI-PF3OUdS	ND	1.8	0.54	0.54	1	763051-92-9		01/03/2023 22:50
PFTTrDA	ND	1.9	0.60	0.60	1	72629-94-8		01/03/2023 22:50
PFDoS	ND	1.9	0.57	0.57	1	79780-39-5		01/03/2023 22:50
PFTDA	ND	1.9	0.58	0.58	1	376-06-7		01/03/2023 22:50

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-TB2-0
 Lab Sample ID 10635405032
 Lab File ID B230103C_015
 Matrix Water
 Collected 11/28/2022 08:00
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 257mL
 Ical ID 230103A02
 CCal File B230103C_014
 Ending CCal File B230103C_025
 Blank File B230103C_004

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	19	16	81	25-150		01/03/2023 22:50
13C5 PFPeA	19	15	76	25-150		01/03/2023 22:50
13C3 PFBS	18	14	75	25-150		01/03/2023 22:50
13C2 4:2FTS	18	14	79	25-150		01/03/2023 22:50
13C5 PFHxA	19	16	81	25-150		01/03/2023 22:50
13C4 PFHpA	19	15	75	25-150		01/03/2023 22:50
13C3 PFHxS	18	14	77	25-150		01/03/2023 22:50
13C2 6:2FTS	18	13	69	25-150		01/03/2023 22:50
13C8 PFOA	19	15	75	25-150		01/03/2023 22:50
13C9 PFNA	19	14	70	25-150		01/03/2023 22:50
13C8 PFOS	19	13	67	25-150		01/03/2023 22:50
13C2 8:2FTS	19	12	63	25-150		01/03/2023 22:50
13C6 PFDA	19	12	60	25-150		01/03/2023 22:50
d3-MeFOSAA	19	10	53	25-150		01/03/2023 22:50
13C8 PFOSA	19	11	58	25-150		01/03/2023 22:50
d5-EtFOSAA	19	11	55	25-150		01/03/2023 22:50
13C7 PFUdA	19	11	55	25-150		01/03/2023 22:50
13C2 PFDoA	19	11	59	25-150		01/03/2023 22:50
13C2 PFTeDA	19	10	53	25-150		01/03/2023 22:50
13C3 HFPO-DA	19	15	79	25-150		01/03/2023 22:50
d7-N-MeFOSE	19	11	55	10-150		01/03/2023 22:50
d9-N-EtFOSE	19	11	56	10-150		01/03/2023 22:50
d3-N-MeFOSA	19	7.5	38	10-150		01/03/2023 22:50
d5-N-EtFOSA	19	7.8	40	10-150		01/03/2023 22:50

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-TB2-0
 Lab Sample ID 10635405032
 Lab File ID B230103C_015
 Matrix Water
 Collected 11/28/2022 08:00
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 257mL
 Ical ID 230103A02
 CCal File B230103C_014
 Ending CCal File B230103C_025
 Blank File B230103C_004

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.16	4.14	22		01/03/2023 22:50
13C5 PFPeA	N/A	N/A	5.05	5.06	23		01/03/2023 22:50
13C3 PFBS	N/A	N/A	6.04	6.02	20		01/03/2023 22:50
13C2 4:2FTS	N/A	N/A	5.47	5.47	10		01/03/2023 22:50
13C5 PFHxA	N/A	N/A	5.77	5.76	16		01/03/2023 22:50
13C4 PFHpA	N/A	N/A	6.47	6.45	24		01/03/2023 22:50
13C3 PFHxS	N/A	N/A	7.55	7.54	26		01/03/2023 22:50
13C2 6:2FTS	N/A	N/A	6.79	6.77	21		01/03/2023 22:50
13C8 PFOA	N/A	N/A	7.13	7.11	27		01/03/2023 22:50
13C9 PFNA	N/A	N/A	7.78	7.78	21		01/03/2023 22:50
13C8 PFOS	N/A	N/A	8.93	8.96	21		01/03/2023 22:50
13C2 8:2FTS	N/A	N/A	8.06	8.07	18		01/03/2023 22:50
13C6 PFDA	N/A	N/A	8.44	8.46	16		01/03/2023 22:50
d3-MeFOSAA	N/A	N/A	8.30	8.31	14		01/03/2023 22:50
13C8 PFOSA	N/A	N/A	10.55	10.54	13		01/03/2023 22:50
d5-EtFOSAA	N/A	N/A	8.59	8.61	11		01/03/2023 22:50
13C7 PFUdA	N/A	N/A	9.11	9.16	18		01/03/2023 22:50
13C2 PFDoA	N/A	N/A	9.80	9.85	12		01/03/2023 22:50
13C2 PFTeDA	N/A	N/A	11.13	11.19	10		01/03/2023 22:50
13C3 HFPO-DA	N/A	N/A	6.06	6.04	17		01/03/2023 22:50
d7-N-MeFOSE	N/A	N/A	12.45	12.51	42		01/03/2023 22:50
d9-N-EtFOSE	N/A	N/A	12.92	12.97	43		01/03/2023 22:50
d3-N-MeFOSA	N/A	N/A	12.65	12.70	64		01/03/2023 22:50
d5-N-EtFOSA	N/A	N/A	13.08	13.11	64		01/03/2023 22:50

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-TB2-0
 Lab Sample ID 10635405032
 Lab File ID B230103C_015
 Matrix Water
 Collected 11/28/2022 08:00
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 257mL
 Ical ID 230103A02
 CCal File B230103C_014
 Ending CCal File B230103C_025
 Blank File B230103C_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.17	4.14	ND		01/03/2023 22:50
PFPeA	N/A	N/A	5.05	5.05	ND		01/03/2023 22:50
HFPO-DA	0.00	0.32	0.00	6.05	ND		01/03/2023 22:50
PFBS	0.58	0.42	6.05	6.03	ND		01/03/2023 22:50
PFHxA	0.13	0.07	5.78	5.76	ND		01/03/2023 22:50
4:2 FTS	0.00	0.86	0.00	5.48	ND		01/03/2023 22:50
PFPeS	0.00	0.47	0.00	6.82	ND		01/03/2023 22:50
PFHpA	0.51	0.30	6.46	6.45	ND		01/03/2023 22:50
DONA	0.00	0.61	0.00	6.70	ND		01/03/2023 22:50
PFHxS	0.00	0.37	0.00	7.55	ND		01/03/2023 22:50
PFOA	0.85	0.41	7.13	7.11	ND		01/03/2023 22:50
6:2 FTS	1.30	0.91	6.80	6.76	ND		01/03/2023 22:50
PFHpS	0.00	0.31	0.00	8.27	ND		01/03/2023 22:50
PFNA	0.19	0.15	7.79	7.79	ND		01/03/2023 22:50
PFOSAm	N/A	N/A	10.55	10.55	ND		01/03/2023 22:50
PFOS	0.24	0.34	8.94	8.99	ND		01/03/2023 22:50
MeFOSA	0.00	0.51	0.00	12.74	ND		01/03/2023 22:50
PFDA	0.32	0.17	8.47	8.47	ND		01/03/2023 22:50
EtFOSAm	0.00	0.54	0.00	13.16	ND		01/03/2023 22:50
8:2 FTS	0.00	0.98	0.00	8.08	ND		01/03/2023 22:50
9-CI-PF3ON	0.00	0.05	0.00	9.49	ND		01/03/2023 22:50
PFNS	0.00	0.48	0.00	9.68	ND		01/03/2023 22:50
PFUnDA	0.00	0.12	0.00	9.17	ND		01/03/2023 22:50
NMeFOSAA	0.00	0.75	0.00	8.32	ND		01/03/2023 22:50
NEtFOSAA	0.00	0.62	0.00	8.62	ND		01/03/2023 22:50
PFDS	0.00	0.36	0.00	10.35	ND		01/03/2023 22:50
PFDOA	0.00	0.20	0.00	9.86	ND		01/03/2023 22:50
MeFOSE	N/A	N/A	0.00	12.55	ND		01/03/2023 22:50
EtFOSE	0.00	0.00	0.00	13.04	ND		01/03/2023 22:50
11-CI-PF3OUdS	0.00	0.02	0.00	10.84	ND		01/03/2023 22:50
PFTTrDA	0.00	0.18	0.00	10.54	ND		01/03/2023 22:50
PFDoS	0.00	0.46	0.00	11.61	ND		01/03/2023 22:50
PFTDA	0.00	0.21	0.00	11.21	ND		01/03/2023 22:50

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-TB3-0
 Lab Sample ID 10635405033
 Lab File ID B230103C_016
 Matrix Water
 Collected 11/28/2022 08:00
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 251mL
 Ical ID 230103A02
 CCal File B230103C_014
 Ending CCal File B230103C_025
 Blank File B230103C_004

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	2.0	0.50	0.50	1	375-22-4		01/03/2023 23:11
PFPeA	ND	2.0	0.82	0.82	1	2706-90-3		01/03/2023 23:11
HFPO-DA	ND	2.0	0.49	0.49	1	13252-13-6		01/03/2023 23:11
PFBS	ND	1.8	0.48	0.48	1	375-73-5		01/03/2023 23:11
PFHxA	ND	2.0	0.91	0.91	1	307-24-4		01/03/2023 23:11
4:2 FTS	ND	1.9	0.46	0.46	1	757124-72-4		01/03/2023 23:11
PFPeS	ND	1.9	0.60	0.60	1	2706-91-4		01/03/2023 23:11
PFHpA	ND	2.0	0.69	0.69	1	375-85-9		01/03/2023 23:11
DONA	ND	1.9	0.91	0.91	1	919005-14-4		01/03/2023 23:11
PFHxS	ND	1.8	0.53	0.53	1	355-46-4		01/03/2023 23:11
PFOA	ND	2.0	0.86	0.86	1	335-67-1		01/03/2023 23:11
6:2 FTS	ND	1.9	0.67	0.67	1	27619-97-2		01/03/2023 23:11
PFHpS	ND	1.9	0.67	0.67	1	375-92-8		01/03/2023 23:11
PFNA	ND	2.0	0.79	0.79	1	375-95-1		01/03/2023 23:11
PFOSAm	ND	2.0	0.71	0.71	1	754-91-6		01/03/2023 23:11
PFOS	ND	1.8	0.66	0.66	1	1763-23-1		01/03/2023 23:11
MeFOSA	ND	2.0	0.55	0.55	1	31506-32-8		01/03/2023 23:11
PFDA	ND	2.0	0.61	0.61	1	335-76-2		01/03/2023 23:11
EtFOSAm	ND	2.0	0.57	0.57	1	4151-50-2		01/03/2023 23:11
8:2 FTS	ND	1.9	0.50	0.50	1	39108-34-4		01/03/2023 23:11
9-CI-PF3ON	ND	1.9	0.47	0.47	1	756426-58-1		01/03/2023 23:11
PFNS	ND	1.9	0.58	0.58	1	68259-12-1		01/03/2023 23:11
PFUnDA	ND	2.0	0.48	0.48	1	2058-94-8		01/03/2023 23:11
NMeFOSAA	ND	2.0	0.69	0.69	1	2355-31-9		01/03/2023 23:11
NEtFOSAA	ND	2.0	0.81	0.81	1	2991-50-6		01/03/2023 23:11
PFDS	ND	1.9	0.64	0.64	1	335-77-3		01/03/2023 23:11
PFDOA	ND	2.0	0.48	0.48	1	307-55-1		01/03/2023 23:11
MeFOSE	ND	2.0	0.52	0.52	1	24448-09-7		01/03/2023 23:11
EtFOSE	ND	2.0	0.89	0.89	1	1691-99-2		01/03/2023 23:11
11-CI-PF3OUdS	ND	1.9	0.55	0.55	1	763051-92-9		01/03/2023 23:11
PFTTrDA	ND	2.0	0.62	0.62	1	72629-94-8		01/03/2023 23:11
PFDoS	ND	1.9	0.59	0.59	1	79780-39-5		01/03/2023 23:11
PFTDA	ND	2.0	0.60	0.60	1	376-06-7		01/03/2023 23:11

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-TB3-0
 Lab Sample ID 10635405033
 Lab File ID B230103C_016
 Matrix Water
 Collected 11/28/2022 08:00
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 251mL
 Ical ID 230103A02
 CCal File B230103C_014
 Ending CCal File B230103C_025
 Blank File B230103C_004

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	20	19	96	50-150		01/03/2023 23:11
13C5 PFPeA	20	19	93	50-150		01/03/2023 23:11
13C3 PFBS	19	16	88	50-150		01/03/2023 23:11
13C2 4:2FTS	19	16	88	50-150		01/03/2023 23:11
13C5 PFHxA	20	19	95	50-150		01/03/2023 23:11
13C4 PFHpA	20	19	93	50-150		01/03/2023 23:11
13C3 PFHxS	19	16	86	50-150		01/03/2023 23:11
13C2 6:2FTS	19	16	84	50-150		01/03/2023 23:11
13C8 PFOA	20	18	92	50-150		01/03/2023 23:11
13C9 PFNA	20	16	79	50-150		01/03/2023 23:11
13C8 PFOS	19	14	75	50-150		01/03/2023 23:11
13C2 8:2FTS	19	14	73	50-150		01/03/2023 23:11
13C6 PFDA	20	13	64	50-150		01/03/2023 23:11
d3-MeFOSAA	20	13	66	50-150		01/03/2023 23:11
13C8 PFOSA	20	14	70	50-150		01/03/2023 23:11
d5-EtFOSAA	20	13	67	50-150		01/03/2023 23:11
13C7 PFUdA	20	14	69	50-150		01/03/2023 23:11
13C2 PFDaA	20	14	69	50-150		01/03/2023 23:11
13C2 PFTeDA	20	13	63	50-150		01/03/2023 23:11
13C3 HFPO-DA	20	19	95	50-150		01/03/2023 23:11
d7-N-MeFOSE	20	13	64	10-150		01/03/2023 23:11
d9-N-EtFOSE	20	12	61	10-150		01/03/2023 23:11
d3-N-MeFOSA	20	11	54	10-150		01/03/2023 23:11
d5-N-EtFOSA	20	10	51	10-150		01/03/2023 23:11

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-TB3-0
 Lab Sample ID 10635405033
 Lab File ID B230103C_016
 Matrix Water
 Collected 11/28/2022 08:00
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 251mL
 Ical ID 230103A02
 CCal File B230103C_014
 Ending CCal File B230103C_025
 Blank File B230103C_004

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.16	4.14	28		01/03/2023 23:11
13C5 PFPeA	N/A	N/A	5.06	5.06	26		01/03/2023 23:11
13C3 PFBS	N/A	N/A	6.05	6.02	31		01/03/2023 23:11
13C2 4:2FTS	N/A	N/A	5.49	5.47	10		01/03/2023 23:11
13C5 PFHxA	N/A	N/A	5.78	5.76	16		01/03/2023 23:11
13C4 PFHpA	N/A	N/A	6.47	6.45	21		01/03/2023 23:11
13C3 PFHxS	N/A	N/A	7.56	7.54	22		01/03/2023 23:11
13C2 6:2FTS	N/A	N/A	6.79	6.77	14		01/03/2023 23:11
13C8 PFOA	N/A	N/A	7.13	7.11	29		01/03/2023 23:11
13C9 PFNA	N/A	N/A	7.79	7.78	18		01/03/2023 23:11
13C8 PFOS	N/A	N/A	8.93	8.96	20		01/03/2023 23:11
13C2 8:2FTS	N/A	N/A	8.07	8.07	28		01/03/2023 23:11
13C6 PFDA	N/A	N/A	8.45	8.46	15		01/03/2023 23:11
d3-MeFOSAA	N/A	N/A	8.31	8.31	17		01/03/2023 23:11
13C8 PFOSA	N/A	N/A	10.53	10.54	12		01/03/2023 23:11
d5-EtFOSAA	N/A	N/A	8.60	8.61	97		01/03/2023 23:11
13C7 PFUdA	N/A	N/A	9.12	9.16	22		01/03/2023 23:11
13C2 PFDoA	N/A	N/A	9.79	9.85	13		01/03/2023 23:11
13C2 PFTeDA	N/A	N/A	11.11	11.19	12		01/03/2023 23:11
13C3 HFPO-DA	N/A	N/A	6.06	6.04	19		01/03/2023 23:11
d7-N-MeFOSE	N/A	N/A	12.44	12.51	40		01/03/2023 23:11
d9-N-EtFOSE	N/A	N/A	12.91	12.97	46		01/03/2023 23:11
d3-N-MeFOSA	N/A	N/A	12.63	12.70	63		01/03/2023 23:11
d5-N-EtFOSA	N/A	N/A	13.07	13.11	71		01/03/2023 23:11

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MEWI-S-TB3-0
 Lab Sample ID 10635405033
 Lab File ID B230103C_016
 Matrix Water
 Collected 11/28/2022 08:00
 Received 12/01/2022 08:50
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 251mL
 Ical ID 230103A02
 CCal File B230103C_014
 Ending CCal File B230103C_025
 Blank File B230103C_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.16	4.14	ND		01/03/2023 23:11
PFPeA	N/A	N/A	5.07	5.05	ND		01/03/2023 23:11
HFPO-DA	0.00	0.32	0.00	6.05	ND		01/03/2023 23:11
PFBS	0.78	0.42	6.05	6.03	ND		01/03/2023 23:11
PFHxA	0.00	0.07	0.00	5.76	ND		01/03/2023 23:11
4:2 FTS	0.00	0.86	0.00	5.48	ND		01/03/2023 23:11
PFPeS	0.00	0.47	0.00	6.82	ND		01/03/2023 23:11
PFHpA	0.23	0.30	6.48	6.45	ND		01/03/2023 23:11
DONA	0.00	0.61	0.00	6.70	ND		01/03/2023 23:11
PFHxS	0.00	0.37	0.00	7.55	ND		01/03/2023 23:11
PFOA	0.36	0.41	7.13	7.11	ND		01/03/2023 23:11
6:2 FTS	0.84	0.91	6.80	6.76	ND		01/03/2023 23:11
PFHpS	0.00	0.31	0.00	8.27	ND		01/03/2023 23:11
PFNA	0.00	0.15	0.00	7.79	ND		01/03/2023 23:11
PFOSAm	N/A	N/A	10.53	10.55	ND		01/03/2023 23:11
PFOS	0.26	0.34	8.95	8.99	ND		01/03/2023 23:11
MeFOSA	0.00	0.51	0.00	12.74	ND		01/03/2023 23:11
PFDA	0.09	0.17	8.46	8.47	ND		01/03/2023 23:11
EtFOSAm	0.00	0.54	0.00	13.16	ND		01/03/2023 23:11
8:2 FTS	0.00	0.98	0.00	8.08	ND		01/03/2023 23:11
9-Cl-PF3ON	0.00	0.05	0.00	9.49	ND		01/03/2023 23:11
PFNS	0.00	0.48	0.00	9.68	ND		01/03/2023 23:11
PFUnDA	0.00	0.12	0.00	9.17	ND		01/03/2023 23:11
NMeFOSAA	0.00	0.75	0.00	8.32	ND		01/03/2023 23:11
NEtFOSAA	0.00	0.62	0.00	8.62	ND		01/03/2023 23:11
PFDS	0.00	0.36	0.00	10.35	ND		01/03/2023 23:11
PFDOA	0.00	0.20	0.00	9.86	ND		01/03/2023 23:11
MeFOSE	N/A	N/A	0.00	12.55	ND		01/03/2023 23:11
EtFOSE	0.00	0.00	0.00	13.04	ND		01/03/2023 23:11
11-Cl-PF3OUdS	0.00	0.02	0.00	10.84	ND		01/03/2023 23:11
PFTrDA	0.00	0.18	0.00	10.54	ND		01/03/2023 23:11
PFDoS	0.00	0.46	0.00	11.61	ND		01/03/2023 23:11
PFTDA	0.34	0.21	11.10	11.21	ND		01/03/2023 23:11

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKDW
 Lab Sample ID BLANK-103023
 Lab File ID B221220C_007
 Matrix Soil
 Collected 12/14/2022 18:10
 Received 12/14/2022 18:10
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.01g
 Ical ID 221219A02
 CCal File B221220C_005
 Ending CCal File B221220C_017
 Blank File

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.100	0.028	0.028	1	375-22-4		12/20/2022 22:39
PFPeA	ND	0.100	0.028	0.028	1	2706-90-3		12/20/2022 22:39
HFPO-DA	ND	0.100	0.028	0.028	1	13252-13-6		12/20/2022 22:39
PFBS	ND	0.088	0.026	0.026	1	375-73-5		12/20/2022 22:39
PFHxA	ND	0.100	0.027	0.027	1	307-24-4		12/20/2022 22:39
4:2 FTS	ND	0.093	0.023	0.023	1	757124-72-4		12/20/2022 22:39
PFPeS	ND	0.094	0.024	0.024	1	2706-91-4		12/20/2022 22:39
PFHpA	ND	0.100	0.035	0.035	1	375-85-9		12/20/2022 22:39
DONA	ND	0.094	0.036	0.036	1	919005-14-4		12/20/2022 22:39
PFHxS	ND	0.091	0.022	0.022	1	355-46-4		12/20/2022 22:39
PFOA	ND	0.100	0.031	0.031	1	335-67-1		12/20/2022 22:39
6:2 FTS	ND	0.095	0.041	0.041	1	27619-97-2		12/20/2022 22:39
PFHpS	ND	0.095	0.028	0.028	1	375-92-8		12/20/2022 22:39
PFNA	ND	0.100	0.031	0.031	1	375-95-1		12/20/2022 22:39
PFOSAm	ND	0.100	0.029	0.029	1	754-91-6		12/20/2022 22:39
PFOS	ND	0.092	0.030	0.030	1	1763-23-1		12/20/2022 22:39
MeFOSA	ND	0.100	0.027	0.027	1	31506-32-8		12/20/2022 22:39
PFDA	ND	0.100	0.023	0.023	1	335-76-2		12/20/2022 22:39
EtFOSAm	ND	0.100	0.026	0.026	1	4151-50-2		12/20/2022 22:39
8:2 FTS	ND	0.096	0.044	0.044	1	39108-34-4		12/20/2022 22:39
9-CI-PF3ON	ND	0.093	0.025	0.025	1	756426-58-1		12/20/2022 22:39
PFNS	ND	0.096	0.035	0.035	1	68259-12-1		12/20/2022 22:39
PFUnDA	ND	0.100	0.030	0.030	1	2058-94-8		12/20/2022 22:39
NMeFOSAA	ND	0.100	0.028	0.028	1	2355-31-9		12/20/2022 22:39
NEtFOSAA	ND	0.100	0.040	0.040	1	2991-50-6		12/20/2022 22:39
PFDS	ND	0.096	0.028	0.028	1	335-77-3		12/20/2022 22:39
PFDOA	ND	0.100	0.033	0.033	1	307-55-1		12/20/2022 22:39
MeFOSE	ND	0.100	0.030	0.030	1	24448-09-7		12/20/2022 22:39
EtFOSE	ND	0.100	0.032	0.032	1	1691-99-2		12/20/2022 22:39
11-CI-PF3OUdS	ND	0.094	0.025	0.025	1	763051-92-9		12/20/2022 22:39
PFTTrDA	ND	0.100	0.032	0.032	1	72629-94-8		12/20/2022 22:39
PFDoS	ND	0.097	0.026	0.026	1	79780-39-5		12/20/2022 22:39
PFTDA	ND	0.100	0.034	0.034	1	376-06-7		12/20/2022 22:39

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKDW
 Lab Sample ID BLANK-103023
 Lab File ID B221220C_007
 Matrix Soil
 Collected 12/14/2022 18:10
 Received 12/14/2022 18:10
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.01g
 Ical ID 221219A02
 CCal File B221220C_005
 Ending CCal File B221220C_017
 Blank File

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.00	0.78	78	50-150		12/20/2022 22:39
13C5 PFPeA	1.00	0.76	76	50-150		12/20/2022 22:39
13C3 PFBS	0.93	0.70	76	50-150		12/20/2022 22:39
13C2 4:2FTS	0.93	0.72	77	50-150		12/20/2022 22:39
13C5 PFHxA	1.00	0.73	73	50-150		12/20/2022 22:39
13C4 PFHpA	1.00	0.75	75	50-150		12/20/2022 22:39
13C3 PFHxS	0.94	0.70	74	50-150		12/20/2022 22:39
13C2 6:2FTS	0.95	0.66	70	50-150		12/20/2022 22:39
13C8 PFOA	1.00	0.71	71	50-150		12/20/2022 22:39
13C9 PFNA	1.00	0.71	71	50-150		12/20/2022 22:39
13C8 PFOS	0.96	0.74	77	50-150		12/20/2022 22:39
13C2 8:2FTS	0.96	0.77	81	50-150		12/20/2022 22:39
13C6 PFDA	1.00	0.81	81	50-150		12/20/2022 22:39
d3-MeFOSAA	1.00	0.72	72	50-150		12/20/2022 22:39
13C8 PFOSA	1.00	0.73	73	50-150		12/20/2022 22:39
d5-EtFOSAA	1.00	0.71	71	50-150		12/20/2022 22:39
13C7 PFUdA	1.00	0.82	82	50-150		12/20/2022 22:39
13C2 PFDoA	1.00	0.76	77	50-150		12/20/2022 22:39
13C2 PFTeDA	1.00	0.72	73	50-150		12/20/2022 22:39
13C3 HFPO-DA	1.00	0.71	71	50-150		12/20/2022 22:39
d7-N-MeFOSE	1.00	0.71	71	20-150		12/20/2022 22:39
d9-N-EtFOSE	1.00	0.75	75	20-150		12/20/2022 22:39
d3-N-MeFOSA	1.00	0.64	64	20-150		12/20/2022 22:39
d5-N-EtFOSA	1.00	0.63	63	20-150		12/20/2022 22:39

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKDW
 Lab Sample ID BLANK-103023
 Lab File ID B221220C_007
 Matrix Soil
 Collected 12/14/2022 18:10
 Received 12/14/2022 18:10
 Extraction Date 12/16/2022 07:59

Total Amount Extracted 5.01g
 Ical ID 221219A02
 CCal File B221220C_005
 Ending CCal File B221220C_017
 Blank File

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.19	4.20	27		12/20/2022 22:39
13C5 PFPeA	N/A	N/A	5.06	5.06	29		12/20/2022 22:39
13C3 PFBS	N/A	N/A	6.02	6.05	21		12/20/2022 22:39
13C2 4:2FTS	N/A	N/A	5.48	5.50	74		12/20/2022 22:39
13C5 PFHxA	N/A	N/A	5.76	5.78	21		12/20/2022 22:39
13C4 PFHpA	N/A	N/A	6.43	6.45	20		12/20/2022 22:39
13C3 PFHxS	N/A	N/A	7.53	7.58	31		12/20/2022 22:39
13C2 6:2FTS	N/A	N/A	6.75	6.77	96		12/20/2022 22:39
13C8 PFOA	N/A	N/A	7.10	7.13	29		12/20/2022 22:39
13C9 PFNA	N/A	N/A	7.76	7.78	20		12/20/2022 22:39
13C8 PFOS	N/A	N/A	8.93	8.98	12		12/20/2022 22:39
13C2 8:2FTS	N/A	N/A	8.05	8.07	97		12/20/2022 22:39
13C6 PFDA	N/A	N/A	8.43	8.46	13		12/20/2022 22:39
d3-MeFOSAA	N/A	N/A	8.29	8.31	14		12/20/2022 22:39
13C8 PFOSA	N/A	N/A	10.57	10.62	13		12/20/2022 22:39
d5-EtFOSAA	N/A	N/A	8.59	8.61	10		12/20/2022 22:39
13C7 PFUdA	N/A	N/A	9.11	9.16	31		12/20/2022 22:39
13C2 PFDaA	N/A	N/A	9.80	9.85	14		12/20/2022 22:39
13C2 PFTeDA	N/A	N/A	11.16	11.21	14		12/20/2022 22:39
13C3 HFPO-DA	N/A	N/A	6.03	6.03	16		12/20/2022 22:39
d7-N-MeFOSE	N/A	N/A	12.51	12.54	45		12/20/2022 22:39
d9-N-EtFOSE	N/A	N/A	12.98	13.00	38		12/20/2022 22:39
d3-N-MeFOSA	N/A	N/A	12.72	12.73	86		12/20/2022 22:39
d5-N-EtFOSA	N/A	N/A	13.14	13.15	65		12/20/2022 22:39

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKDW	Total Amount Extracted	5.01g
Lab Sample ID	BLANK-103023	Ical ID	221219A02
Lab File ID	B221220C_007	CCal File	B221220C_005
Matrix	Soil	Ending CCal File	B221220C_017
Collected	12/14/2022 18:10	Blank File	
Received	12/14/2022 18:10		
Extraction Date	12/16/2022 07:59		

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.19	4.20	ND		12/20/2022 22:39
PFPeA	N/A	N/A	5.07	5.06	ND		12/20/2022 22:39
HFPO-DA	0.36	0.34	6.04	6.04	ND		12/20/2022 22:39
PFBS	0.00	0.44	0.00	6.03	ND		12/20/2022 22:39
PFHxA	0.00	0.07	0.00	5.76	ND		12/20/2022 22:39
4:2 FTS	0.00	0.81	0.00	5.50	ND		12/20/2022 22:39
PFPeS	0.00	0.39	0.00	6.83	ND		12/20/2022 22:39
PFHpA	0.39	0.32	6.44	6.46	ND		12/20/2022 22:39
DONA	0.00	0.63	0.00	6.70	ND		12/20/2022 22:39
PFHxS	0.00	0.37	0.00	7.58	ND		12/20/2022 22:39
PFOA	0.17	0.39	7.11	7.11	ND		12/20/2022 22:39
6:2 FTS	1.10	0.75	6.75	6.76	ND		12/20/2022 22:39
PFHpS	0.00	0.37	0.00	8.27	ND		12/20/2022 22:39
PFNA	0.00	0.17	0.00	7.79	ND		12/20/2022 22:39
PFOSAm	N/A	N/A	0.00	10.71	ND		12/20/2022 22:39
PFOS	0.44	0.45	8.94	9.11	ND		12/20/2022 22:39
MeFOSA	0.00	0.66	0.00	12.78	ND		12/20/2022 22:39
PFDA	0.00	0.18	0.00	8.53	ND		12/20/2022 22:39
EtFOSAm	0.00	0.51	0.00	13.20	ND		12/20/2022 22:39
8:2 FTS	0.00	0.86	0.00	8.13	ND		12/20/2022 22:39
9-CI-PF3ON	0.00	0.07	0.00	9.49	ND		12/20/2022 22:39
PFNS	0.00	0.41	0.00	9.68	ND		12/20/2022 22:39
PFUnDA	0.00	0.13	0.00	9.17	ND		12/20/2022 22:39
NMeFOSAA	0.00	0.84	0.00	8.32	ND		12/20/2022 22:39
NEtFOSAA	0.00	0.59	0.00	8.62	ND		12/20/2022 22:39
PFDS	0.00	0.33	0.00	10.37	ND		12/20/2022 22:39
PFDOA	0.00	0.17	0.00	9.86	ND		12/20/2022 22:39
MeFOSE	N/A	N/A	0.00	12.59	ND		12/20/2022 22:39
EtFOSE	0.00	0.00	0.00	13.04	ND		12/20/2022 22:39
11-CI-PF3OUdS	0.00	0.02	0.00	10.86	ND		12/20/2022 22:39
PFTTrDA	0.00	0.18	0.00	10.54	ND		12/20/2022 22:39
PFDoS	0.00	0.49	0.00	11.64	ND		12/20/2022 22:39
PFTDA	0.00	0.26	0.00	11.21	ND		12/20/2022 22:39

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKHR
 Lab Sample ID BLANK-103266
 Lab File ID B221222A_004
 Matrix Soil
 Collected 12/29/2022 13:00
 Received 12/29/2022 13:00
 Extraction Date 12/16/2022 09:14

Total Amount Extracted 5.00g
 Ical ID 221219A02
 CCal File B221222A_002
 Ending CCal File B221222A_014
 Blank File

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.10	0.028	0.028	1	375-22-4		12/22/2022 05:21
PFPeA	ND	0.10	0.029	0.029	1	2706-90-3		12/22/2022 05:21
HFPO-DA	ND	0.10	0.028	0.028	1	13252-13-6		12/22/2022 05:21
PFBS	ND	0.088	0.026	0.026	1	375-73-5		12/22/2022 05:21
PFHxA	ND	0.10	0.028	0.028	1	307-24-4		12/22/2022 05:21
4:2 FTS	ND	0.094	0.023	0.023	1	757124-72-4		12/22/2022 05:21
PFPeS	ND	0.094	0.024	0.024	1	2706-91-4		12/22/2022 05:21
PFHpA	ND	0.10	0.035	0.035	1	375-85-9		12/22/2022 05:21
DONA	ND	0.095	0.036	0.036	1	919005-14-4		12/22/2022 05:21
PFHxS	ND	0.091	0.022	0.022	1	355-46-4		12/22/2022 05:21
PFOA	ND	0.10	0.031	0.031	1	335-67-1		12/22/2022 05:21
6:2 FTS	ND	0.095	0.041	0.041	1	27619-97-2		12/22/2022 05:21
PFHpS	ND	0.095	0.028	0.028	1	375-92-8		12/22/2022 05:21
PFNA	ND	0.10	0.031	0.031	1	375-95-1		12/22/2022 05:21
PFOSAm	ND	0.10	0.029	0.029	1	754-91-6		12/22/2022 05:21
PFOS	ND	0.092	0.030	0.030	1	1763-23-1		12/22/2022 05:21
MeFOSA	ND	0.10	0.027	0.027	1	31506-32-8		12/22/2022 05:21
PFDA	ND	0.10	0.023	0.023	1	335-76-2		12/22/2022 05:21
EtFOSAm	ND	0.10	0.026	0.026	1	4151-50-2		12/22/2022 05:21
8:2 FTS	ND	0.096	0.044	0.044	1	39108-34-4		12/22/2022 05:21
9-CI-PF3ON	ND	0.093	0.025	0.025	1	756426-58-1		12/22/2022 05:21
PFNS	ND	0.096	0.035	0.035	1	68259-12-1		12/22/2022 05:21
PFUnDA	ND	0.10	0.030	0.030	1	2058-94-8		12/22/2022 05:21
NMeFOSAA	ND	0.10	0.028	0.028	1	2355-31-9		12/22/2022 05:21
NEtFOSAA	ND	0.10	0.040	0.040	1	2991-50-6		12/22/2022 05:21
PFDS	ND	0.096	0.028	0.028	1	335-77-3		12/22/2022 05:21
PFDOA	ND	0.10	0.033	0.033	1	307-55-1		12/22/2022 05:21
MeFOSE	ND	0.10	0.030	0.030	1	24448-09-7		12/22/2022 05:21
EtFOSE	ND	0.10	0.032	0.032	1	1691-99-2		12/22/2022 05:21
11-CI-PF3OUdS	ND	0.094	0.025	0.025	1	763051-92-9		12/22/2022 05:21
PFTTrDA	ND	0.10	0.032	0.032	1	72629-94-8		12/22/2022 05:21
PFDoS	ND	0.097	0.026	0.026	1	79780-39-5		12/22/2022 05:21
PFTDA	ND	0.10	0.034	0.034	1	376-06-7		12/22/2022 05:21

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKHR	Total Amount Extracted	5.00g
Lab Sample ID	BLANK-103266	Ical ID	221219A02
Lab File ID	B221222A_004	CCal File	B221222A_002
Matrix	Soil	Ending CCal File	B221222A_014
Collected	12/29/2022 13:00	Blank File	
Received	12/29/2022 13:00		
Extraction Date	12/16/2022 09:14		

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.0	0.99	99	50-150		12/22/2022 05:21
13C5 PFPeA	1.0	0.97	97	50-150		12/22/2022 05:21
13C3 PFBS	0.93	0.90	97	50-150		12/22/2022 05:21
13C2 4:2FTS	0.94	0.93	99	50-150		12/22/2022 05:21
13C5 PFHxA	1.0	0.99	99	50-150		12/22/2022 05:21
13C4 PFHpA	1.0	0.89	89	50-150		12/22/2022 05:21
13C3 PFHxS	0.95	0.97	103	50-150		12/22/2022 05:21
13C2 6:2FTS	0.95	0.90	95	50-150		12/22/2022 05:21
13C8 PFOA	1.0	0.93	93	50-150		12/22/2022 05:21
13C9 PFNA	1.0	1.0	102	50-150		12/22/2022 05:21
13C8 PFOS	0.96	0.92	96	50-150		12/22/2022 05:21
13C2 8:2FTS	0.96	0.91	95	50-150		12/22/2022 05:21
13C6 PFDA	1.0	0.99	99	50-150		12/22/2022 05:21
d3-MeFOSAA	1.0	0.98	98	50-150		12/22/2022 05:21
13C8 PFOSA	1.0	0.98	98	50-150		12/22/2022 05:21
d5-EtFOSAA	1.0	0.92	92	50-150		12/22/2022 05:21
13C7 PFUdA	1.0	1.1	111	50-150		12/22/2022 05:21
13C2 PFDoA	1.0	1.0	102	50-150		12/22/2022 05:21
13C2 PFTeDA	1.0	0.91	91	50-150		12/22/2022 05:21
13C3 HFPO-DA	1.0	1.0	101	50-150		12/22/2022 05:21
d7-N-MeFOSE	1.0	0.92	92	10-150		12/22/2022 05:21
d9-N-EtFOSE	1.0	0.85	85	10-150		12/22/2022 05:21
d3-N-MeFOSA	1.0	0.96	96	10-150		12/22/2022 05:21
d5-N-EtFOSA	1.0	0.87	87	10-150		12/22/2022 05:21

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKHR
 Lab Sample ID BLANK-103266
 Lab File ID B221222A_004
 Matrix Soil
 Collected 12/29/2022 13:00
 Received 12/29/2022 13:00
 Extraction Date 12/16/2022 09:14

Total Amount Extracted 5.00g
 Ical ID 221219A02
 CCal File B221222A_002
 Ending CCal File B221222A_014
 Blank File

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.17	4.20	23		12/22/2022 05:21
13C5 PFPeA	N/A	N/A	5.04	5.06	32		12/22/2022 05:21
13C3 PFBS	N/A	N/A	6.01	6.05	33		12/22/2022 05:21
13C2 4:2FTS	N/A	N/A	5.46	5.50	96		12/22/2022 05:21
13C5 PFHxA	N/A	N/A	5.74	5.78	24		12/22/2022 05:21
13C4 PFHpA	N/A	N/A	6.42	6.45	23		12/22/2022 05:21
13C3 PFHxS	N/A	N/A	7.52	7.50	30		12/22/2022 05:21
13C2 6:2FTS	N/A	N/A	6.75	6.77	30		12/22/2022 05:21
13C8 PFOA	N/A	N/A	7.09	7.13	22		12/22/2022 05:21
13C9 PFNA	N/A	N/A	7.76	7.78	20		12/22/2022 05:21
13C8 PFOS	N/A	N/A	8.93	8.98	26		12/22/2022 05:21
13C2 8:2FTS	N/A	N/A	8.05	8.07	38		12/22/2022 05:21
13C6 PFDA	N/A	N/A	8.44	8.46	11		12/22/2022 05:21
d3-MeFOSAA	N/A	N/A	8.29	8.31	19		12/22/2022 05:21
13C8 PFOSA	N/A	N/A	10.57	10.62	10		12/22/2022 05:21
d5-EtFOSAA	N/A	N/A	8.58	8.61	12		12/22/2022 05:21
13C7 PFUdA	N/A	N/A	9.12	9.16	34		12/22/2022 05:21
13C2 PFDaA	N/A	N/A	9.80	9.85	16		12/22/2022 05:21
13C2 PFTeDA	N/A	N/A	11.15	11.21	13		12/22/2022 05:21
13C3 HFPO-DA	N/A	N/A	6.02	6.03	19		12/22/2022 05:21
d7-N-MeFOSE	N/A	N/A	12.50	12.54	42		12/22/2022 05:21
d9-N-EtFOSE	N/A	N/A	12.97	13.00	34		12/22/2022 05:21
d3-N-MeFOSA	N/A	N/A	12.71	12.73	68		12/22/2022 05:21
d5-N-EtFOSA	N/A	N/A	13.12	13.15	11		12/22/2022 05:21

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKHR	Total Amount Extracted	5.00g
Lab Sample ID	BLANK-103266	Ical ID	221219A02
Lab File ID	B221222A_004	CCal File	B221222A_002
Matrix	Soil	Ending CCal File	B221222A_014
Collected	12/29/2022 13:00	Blank File	
Received	12/29/2022 13:00		
Extraction Date	12/16/2022 09:14		

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.17	4.20	ND		12/22/2022 05:21
PFPeA	N/A	N/A	5.05	5.06	ND		12/22/2022 05:21
HFPO-DA	0.26	0.29	6.03	6.04	ND		12/22/2022 05:21
PFBS	0.00	0.42	6.01	6.03	ND		12/22/2022 05:21
PFHxA	0.00	0.08	0.00	5.76	ND		12/22/2022 05:21
4:2 FTS	0.00	0.82	0.00	5.50	ND		12/22/2022 05:21
PFPeS	0.00	0.36	0.00	6.83	ND		12/22/2022 05:21
PFHpA	0.27	0.28	6.44	6.46	ND		12/22/2022 05:21
DONA	0.00	0.52	0.00	6.70	ND		12/22/2022 05:21
PFHxS	0.00	0.36	0.00	7.58	ND		12/22/2022 05:21
PFOA	0.54	0.39	7.10	7.11	ND		12/22/2022 05:21
6:2 FTS	0.79	0.82	6.75	6.76	ND		12/22/2022 05:21
PFHpS	0.00	0.38	0.00	8.27	ND		12/22/2022 05:21
PFNA	0.22	0.15	7.76	7.79	ND		12/22/2022 05:21
PFOSAm	N/A	N/A	10.56	10.71	ND		12/22/2022 05:21
PFOS	0.00	0.39	0.00	9.11	ND		12/22/2022 05:21
MeFOSA	0.00	0.58	0.00	12.78	ND		12/22/2022 05:21
PFDA	0.00	0.16	0.00	8.53	ND		12/22/2022 05:21
EtFOSAm	0.00	0.48	0.00	13.20	ND		12/22/2022 05:21
8:2 FTS	0.00	0.86	0.00	8.13	ND		12/22/2022 05:21
9-CI-PF3ON	0.00	0.06	0.00	9.49	ND		12/22/2022 05:21
PFNS	0.00	0.47	0.00	9.68	ND		12/22/2022 05:21
PFUnDA	0.00	0.12	0.00	9.17	ND		12/22/2022 05:21
NMeFOSAA	0.00	0.91	0.00	8.32	ND		12/22/2022 05:21
NEtFOSAA	0.00	0.59	0.00	8.62	ND		12/22/2022 05:21
PFDS	0.00	0.29	0.00	10.37	ND		12/22/2022 05:21
PFDOA	0.00	0.16	0.00	9.86	ND		12/22/2022 05:21
MeFOSE	N/A	N/A	0.00	12.59	ND		12/22/2022 05:21
EtFOSE	0.00	0.00	0.00	13.04	ND		12/22/2022 05:21
11-CI-PF3OUdS	0.00	0.02	0.00	10.86	ND		12/22/2022 05:21
PFTTrDA	0.00	0.15	0.00	10.54	ND		12/22/2022 05:21
PFDoS	0.00	0.45	0.00	11.64	ND		12/22/2022 05:21
PFTDA	0.42	0.24	11.17	11.21	ND		12/22/2022 05:21

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKHF
 Lab Sample ID BLANK-103211
 Lab File ID B230103C_004
 Matrix Water
 Collected 12/27/2022 14:29
 Received 12/27/2022 14:29
 Extraction Date 12/29/2022 15:15

Total Amount Extracted 234mL
 Ical ID 230103A02
 CCal File B230103C_002
 Ending CCal File B230103C_014
 Blank File

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	2.1	0.53	0.53	1	375-22-4		01/03/2023 19:10
PFPeA	ND	2.1	0.88	0.88	1	2706-90-3		01/03/2023 19:10
HFPO-DA	ND	2.1	0.53	0.53	1	13252-13-6		01/03/2023 19:10
PFBS	ND	1.9	0.52	0.52	1	375-73-5		01/03/2023 19:10
PFHxA	ND	2.1	0.97	0.97	1	307-24-4		01/03/2023 19:10
4:2 FTS	ND	2.0	0.50	0.50	1	757124-72-4		01/03/2023 19:10
PFPeS	ND	2.0	0.64	0.64	1	2706-91-4		01/03/2023 19:10
PFHpA	ND	2.1	0.74	0.74	1	375-85-9		01/03/2023 19:10
DONA	ND	2.0	0.98	0.98	1	919005-14-4		01/03/2023 19:10
PFHxS	ND	1.9	0.57	0.57	1	355-46-4		01/03/2023 19:10
PFOA	ND	2.1	0.92	0.92	1	335-67-1		01/03/2023 19:10
6:2 FTS	ND	2.0	0.72	0.72	1	27619-97-2		01/03/2023 19:10
PFHpS	ND	2.0	0.71	0.71	1	375-92-8		01/03/2023 19:10
PFNA	ND	2.1	0.85	0.85	1	375-95-1		01/03/2023 19:10
PFOSAm	ND	2.1	0.77	0.77	1	754-91-6		01/03/2023 19:10
PFOS	ND	2.0	0.71	0.71	1	1763-23-1		01/03/2023 19:10
MeFOSA	ND	2.1	0.59	0.59	1	31506-32-8		01/03/2023 19:10
PFDA	ND	2.1	0.65	0.65	1	335-76-2		01/03/2023 19:10
EtFOSAm	ND	2.1	0.61	0.61	1	4151-50-2		01/03/2023 19:10
8:2 FTS	ND	2.1	0.54	0.54	1	39108-34-4		01/03/2023 19:10
9-CI-PF3ON	ND	2.0	0.50	0.50	1	756426-58-1		01/03/2023 19:10
PFNS	ND	2.1	0.63	0.63	1	68259-12-1		01/03/2023 19:10
PFUnDA	ND	2.1	0.52	0.52	1	2058-94-8		01/03/2023 19:10
NMeFOSAA	ND	2.1	0.74	0.74	1	2355-31-9		01/03/2023 19:10
NEtFOSAA	ND	2.1	0.87	0.87	1	2991-50-6		01/03/2023 19:10
PFDS	ND	2.1	0.69	0.69	1	335-77-3		01/03/2023 19:10
PFDOA	ND	2.1	0.51	0.51	1	307-55-1		01/03/2023 19:10
MeFOSE	ND	2.1	0.56	0.56	1	24448-09-7		01/03/2023 19:10
EtFOSE	ND	2.1	0.95	0.95	1	1691-99-2		01/03/2023 19:10
11-CI-PF3OUdS	ND	2.0	0.59	0.59	1	763051-92-9		01/03/2023 19:10
PFTTrDA	ND	2.1	0.67	0.67	1	72629-94-8		01/03/2023 19:10
PFDoS	ND	2.1	0.63	0.63	1	79780-39-5		01/03/2023 19:10
PFTDA	ND	2.1	0.64	0.64	1	376-06-7		01/03/2023 19:10

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKHF	Total Amount Extracted	234mL
Lab Sample ID	BLANK-103211	Ical ID	230103A02
Lab File ID	B230103C_004	CCal File	B230103C_002
Matrix	Water	Ending CCal File	B230103C_014
Collected	12/27/2022 14:29	Blank File	
Received	12/27/2022 14:29		
Extraction Date	12/29/2022 15:15		

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	21	14	68	50-150		01/03/2023 19:10
13C5 PFPeA	21	14	65	50-150		01/03/2023 19:10
13C3 PFBS	20	14	68	50-150		01/03/2023 19:10
13C2 4:2FTS	20	14	72	50-150		01/03/2023 19:10
13C5 PFHxA	21	15	71	50-150		01/03/2023 19:10
13C4 PFHpA	21	15	68	50-150		01/03/2023 19:10
13C3 PFHxS	20	15	74	50-150		01/03/2023 19:10
13C2 6:2FTS	20	13	64	50-150		01/03/2023 19:10
13C8 PFOA	21	17	78	50-150		01/03/2023 19:10
13C9 PFNA	21	15	70	50-150		01/03/2023 19:10
13C8 PFOS	20	14	67	50-150		01/03/2023 19:10
13C2 8:2FTS	20	14	67	50-150		01/03/2023 19:10
13C6 PFDA	21	14	64	50-150		01/03/2023 19:10
d3-MeFOSAA	21	14	63	50-150		01/03/2023 19:10
13C8 PFOSA	21	13	60	50-150		01/03/2023 19:10
d5-EtFOSAA	21	13	59	50-150		01/03/2023 19:10
13C7 PFUdA	21	14	68	50-150		01/03/2023 19:10
13C2 PFDoA	21	14	65	50-150		01/03/2023 19:10
13C2 PFTeDA	21	14	65	50-150		01/03/2023 19:10
13C3 HFPO-DA	21	14	66	50-150		01/03/2023 19:10
d7-N-MeFOSE	21	12	56	20-150		01/03/2023 19:10
d9-N-EtFOSE	21	13	62	20-150		01/03/2023 19:10
d3-N-MeFOSA	21	11	51	20-150		01/03/2023 19:10
d5-N-EtFOSA	21	10	48	20-150		01/03/2023 19:10

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKHF	Total Amount Extracted	234mL
Lab Sample ID	BLANK-103211	Ical ID	230103A02
Lab File ID	B230103C_004	CCal File	B230103C_002
Matrix	Water	Ending CCal File	B230103C_014
Collected	12/27/2022 14:29	Blank File	
Received	12/27/2022 14:29		
Extraction Date	12/29/2022 15:15		

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.16	4.14	19		01/03/2023 19:10
13C5 PFPeA	N/A	N/A	5.05	5.06	22		01/03/2023 19:10
13C3 PFBS	N/A	N/A	6.03	6.02	20		01/03/2023 19:10
13C2 4:2FTS	N/A	N/A	5.47	5.47	92		01/03/2023 19:10
13C5 PFHxA	N/A	N/A	5.76	5.76	21		01/03/2023 19:10
13C4 PFHpA	N/A	N/A	6.45	6.45	17		01/03/2023 19:10
13C3 PFHxS	N/A	N/A	7.52	7.54	21		01/03/2023 19:10
13C2 6:2FTS	N/A	N/A	6.77	6.77	16		01/03/2023 19:10
13C8 PFOA	N/A	N/A	7.11	7.11	23		01/03/2023 19:10
13C9 PFNA	N/A	N/A	7.74	7.78	21		01/03/2023 19:10
13C8 PFOS	N/A	N/A	8.88	8.96	22		01/03/2023 19:10
13C2 8:2FTS	N/A	N/A	8.02	8.07	12		01/03/2023 19:10
13C6 PFDA	N/A	N/A	8.39	8.46	12		01/03/2023 19:10
d3-MeFOSAA	N/A	N/A	8.25	8.31	26		01/03/2023 19:10
13C8 PFOSA	N/A	N/A	10.48	10.54	11		01/03/2023 19:10
d5-EtFOSAA	N/A	N/A	8.53	8.61	11		01/03/2023 19:10
13C7 PFUdA	N/A	N/A	9.06	9.16	23		01/03/2023 19:10
13C2 PFDoA	N/A	N/A	9.74	9.85	13		01/03/2023 19:10
13C2 PFTeDA	N/A	N/A	11.05	11.19	14		01/03/2023 19:10
13C3 HFPO-DA	N/A	N/A	6.04	6.04	19		01/03/2023 19:10
d7-N-MeFOSE	N/A	N/A	12.41	12.51	40		01/03/2023 19:10
d9-N-EtFOSE	N/A	N/A	12.88	12.97	43		01/03/2023 19:10
d3-N-MeFOSA	N/A	N/A	12.61	12.70	69		01/03/2023 19:10
d5-N-EtFOSA	N/A	N/A	13.04	13.11	68		01/03/2023 19:10

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKHF	Total Amount Extracted	234mL
Lab Sample ID	BLANK-103211	Ical ID	230103A02
Lab File ID	B230103C_004	CCal File	B230103C_002
Matrix	Water	Ending CCal File	B230103C_014
Collected	12/27/2022 14:29	Blank File	
Received	12/27/2022 14:29		
Extraction Date	12/29/2022 15:15		

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.16	4.14	ND		01/03/2023 19:10
PFPeA	N/A	N/A	5.06	5.05	ND		01/03/2023 19:10
HFPO-DA	0.46	0.28	6.06	6.05	ND		01/03/2023 19:10
PFBS	0.61	0.45	6.04	6.03	ND		01/03/2023 19:10
PFHxA	0.17	0.07	5.77	5.76	ND		01/03/2023 19:10
4:2 FTS	0.00	0.80	0.00	5.48	ND		01/03/2023 19:10
PFPeS	0.00	0.45	0.00	6.82	ND		01/03/2023 19:10
PFHpA	0.19	0.29	6.46	6.45	ND		01/03/2023 19:10
DONA	0.00	0.62	0.00	6.70	ND		01/03/2023 19:10
PFHxS	0.00	0.37	7.52	7.55	ND		01/03/2023 19:10
PFOA	0.37	0.41	7.13	7.11	ND		01/03/2023 19:10
6:2 FTS	1.50	0.83	6.77	6.76	ND		01/03/2023 19:10
PFHpS	0.00	0.29	0.00	8.27	ND		01/03/2023 19:10
PFNA	0.32	0.16	7.75	7.75	ND		01/03/2023 19:10
PFOSAm	N/A	N/A	10.49	10.55	ND		01/03/2023 19:10
PFOS	0.00	0.37	8.89	8.99	ND		01/03/2023 19:10
MeFOSA	0.00	0.66	0.00	12.74	ND		01/03/2023 19:10
PFDA	0.26	0.16	8.40	8.47	ND		01/03/2023 19:10
EtFOSAm	0.00	0.45	0.00	13.16	ND		01/03/2023 19:10
8:2 FTS	0.00	0.95	0.00	8.08	ND		01/03/2023 19:10
9-CI-PF3ON	0.00	0.05	0.00	9.49	ND		01/03/2023 19:10
PFNS	0.00	0.48	0.00	9.68	ND		01/03/2023 19:10
PFUnDA	0.00	0.14	0.00	9.17	ND		01/03/2023 19:10
NMeFOSAA	0.00	0.72	0.00	8.32	ND		01/03/2023 19:10
NEtFOSAA	0.00	0.60	0.00	8.62	ND		01/03/2023 19:10
PFDS	0.00	0.36	0.00	10.35	ND		01/03/2023 19:10
PFDOA	0.00	0.18	0.00	9.86	ND		01/03/2023 19:10
MeFOSE	N/A	N/A	0.00	12.55	ND		01/03/2023 19:10
EtFOSE	0.00	0.00	0.00	13.04	ND		01/03/2023 19:10
11-CI-PF3OUdS	0.00	0.02	0.00	10.84	ND		01/03/2023 19:10
PFTTrDA	0.00	0.17	0.00	10.54	ND		01/03/2023 19:10
PFDoS	0.00	0.45	0.00	11.61	ND		01/03/2023 19:10
PFTDA	0.13	0.21	11.06	11.21	ND		01/03/2023 19:10

REPORT OF LABORATORY ANALYSIS

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-103024
 Run File Name B221220C_008
 Analyzed 12/20/2022 22:59
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 221219A02
 Level L

Extracted Internal Standards

Compound	Known Conc. ug/Kg	Conc. Found ug/Kg	%Recovery	Recovery Limits	Qualifiers
13C4 PFBA	0.99	0.85	86	50-150	
13C5 PFPeA	0.99	0.85	85	50-150	
13C3 PFBS	0.92	0.73	79	50-150	
13C2 4:2FTS	0.93	0.74	80	50-150	
13C5 PFHxA	0.99	0.79	79	50-150	
13C4 PFHpA	0.99	0.82	82	50-150	
13C3 PFHxS	0.94	0.81	86	50-150	
13C2 6:2FTS	0.94	0.79	84	50-150	
13C8 PFOA	0.99	0.76	77	50-150	
13C9 PFNA	0.99	0.78	79	50-150	
13C8 PFOS	0.95	0.75	79	50-150	
13C2 8:2FTS	0.95	0.85	90	50-150	
13C6 PFDA	0.99	0.85	85	50-150	
d3-MeFOSAA	0.99	0.84	85	50-150	
13C8 PFOSA	0.99	0.83	83	50-150	
d5-EtFOSAA	0.99	0.90	91	50-150	
13C7 PFUdA	0.99	0.90	91	50-150	
13C2 PFDoA	0.99	0.84	85	50-150	
13C2 PFTeDA	0.99	0.81	81	50-150	
13C3 HFPO-DA	0.99	0.76	77	50-150	
d7-N-MeFOSE	0.99	0.79	80	20-150	
d9-N-EtFOSE	0.99	0.80	81	20-150	
d3-N-MeFOSA	0.99	0.75	75	20-150	
d5-N-EtFOSA	0.99	0.73	74	20-150	

REPORT OF LABORATORY ANALYSIS

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-103024
 Run File Name B221220C_008
 Analyzed 12/20/2022 22:59
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 221219A02
 Level L

Native Analytes

Compound	Known Conc. ug/Kg	Conc. Found ug/Kg	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	0.20	0.22	110	50-150		375-22-4
PFPeA	0.20	0.22	112	50-150		2706-90-3
HFPO-DA	0.20	0.24	119	50-150		13252-13-6
PFBS	0.18	0.19	107	50-150		375-73-5
PFHxA	0.20	0.22	109	50-150		307-24-4
4:2 FTS	0.19	0.21	116	50-150		757124-72-4
PFPeS	0.19	0.19	101	50-150		2706-91-4
PFHpA	0.20	0.23	114	50-150		375-85-9
DONA	0.19	0.21	113	50-150		919005-14-4
PFHxS	0.18	0.18	102	50-150		355-46-4
PFOA	0.20	0.24	119	50-150		335-67-1
6:2 FTS	0.19	0.19	99	50-150		27619-97-2
PFHpS	0.19	0.22	115	50-150		375-92-8
PFNA	0.20	0.22	112	50-150		375-95-1
PFOSAm	0.20	0.19	94	50-150		754-91-6
PFOS	0.18	0.20	106	50-150		1763-23-1
MeFOSA	0.20	0.21	105	50-150		31506-32-8
PFDA	0.20	0.22	113	50-150		335-76-2
EtFOSAm	0.20	0.21	108	50-150		4151-50-2
8:2 FTS	0.19	0.18	92	50-150		39108-34-4
9-CI-PF3ON	0.18	0.22	117	50-150		756426-58-1
PFNS	0.19	0.21	112	50-150		68259-12-1
PFUnDA	0.20	0.21	105	50-150		2058-94-8
NMeFOSAA	0.20	0.21	107	50-150		2355-31-9
NEtFOSAA	0.20	0.17	88	50-150		2991-50-6
PFDS	0.19	0.20	104	50-150		335-77-3
PFDOA	0.20	0.20	102	50-150		307-55-1
MeFOSE	0.20	0.21	104	50-150		24448-09-7
EtFOSE	0.20	0.20	98	50-150		1691-99-2
11-CI-PF3OUdS	0.19	0.21	115	50-150		763051-92-9
PFTrDA	0.20	0.19	96	50-150		72629-94-8
PFDoS	0.19	0.22	116	50-150		79780-39-5
PFTDA	0.20	0.23	115	50-150		376-06-7

REPORT OF LABORATORY ANALYSIS

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-103024
 Run File Name B221220C_008
 Analyzed 12/20/2022 22:59
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 221219A02
 Level L

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.18	4.20	2106	
13C5 PFPeA	N/A	N/A	5.05	5.06	2936	
13C3 PFBS	N/A	N/A	6.01	6.05	2975	
13C2 4:2FTS	N/A	N/A	5.46	5.50	815	
13C5 PFHxA	N/A	N/A	5.74	5.78	1710	
13C4 PFHpA	N/A	N/A	6.42	6.45	1983	
13C3 PFHxS	N/A	N/A	7.53	7.58	2543	
13C2 6:2FTS	N/A	N/A	6.75	6.77	2117	
13C8 PFOA	N/A	N/A	7.10	7.13	2414	
13C9 PFNA	N/A	N/A	7.76	7.78	1837	
13C8 PFOS	N/A	N/A	8.95	8.98	2704	
13C2 8:2FTS	N/A	N/A	8.05	8.07	453798	
13C6 PFDA	N/A	N/A	8.44	8.46	1130	
d3-MeFOSAA	N/A	N/A	8.30	8.31	4020	
13C8 PFOSA	N/A	N/A	10.58	10.62	1145	
d5-EtFOSAA	N/A	N/A	8.59	8.61	1650	
13C7 PFUdA	N/A	N/A	9.13	9.16	2225	
13C2 PFDoA	N/A	N/A	9.82	9.85	1264	
13C2 PFTeDA	N/A	N/A	11.17	11.21	1368	
13C3 HFPO-DA	N/A	N/A	6.02	6.03	1893	
d7-N-MeFOSE	N/A	N/A	12.51	12.54	41	
d9-N-EtFOSE	N/A	N/A	12.98	13.00	460	
d3-N-MeFOSA	N/A	N/A	12.72	12.73	668	
d5-N-EtFOSA	N/A	N/A	13.13	13.15	929	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-103024
 Run File Name B221220C_008
 Analyzed 12/20/2022 22:59
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 221219A02
 Level L

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.19	4.20	210	
PFPeA	N/A	N/A	5.06	5.06	648	
HFPO-DA	0.30	0.34	6.03	6.04	1164	
PFBS	0.42	0.44	6.02	6.03	1359	
PFHxA	0.07	0.07	5.75	5.76	349	
4:2 FTS	0.85	0.81	5.47	5.50	6376049	
PFPeS	0.42	0.39	6.80	6.83	1714	
PFHpA	0.29	0.32	6.43	6.46	335	
DONA	0.59	0.63	6.68	6.70	1343	
PFHxS	0.37	0.37	7.53	7.58	1348	
PFOA	0.37	0.39	7.10	7.11	223	
6:2 FTS	0.88	0.75	6.75	6.76	65	
PFHpS	0.38	0.37	8.25	8.27	5600	
PFNA	0.16	0.17	7.77	7.79	585	
PFOSAm	N/A	N/A	10.58	10.71	1016	
PFOS	0.47	0.45	8.96	9.11	355	
MeFOSA	0.63	0.66	12.74	12.78	4282	
PFDA	0.15	0.18	8.45	8.53	294	
EtFOSAm	0.46	0.51	13.16	13.20	900	
8:2 FTS	1.00	0.86	8.06	8.13	416	
9-CI-PF3ON	0.06	0.07	9.46	9.49	867	
PFNS	0.48	0.41	9.65	9.68	1207	
PFUnDA	0.12	0.13	9.13	9.17	560	
NMeFOSAA	0.75	0.84	8.31	8.32	1416530	
NEtFOSAA	0.67	0.59	8.61	8.62	288	
PFDS	0.37	0.33	10.32	10.37	1407	
PFDOA	0.20	0.17	9.82	9.86	429	
MeFOSE	N/A	N/A	12.55	12.59	425	
EtFOSE	0.00	0.00	13.02	13.04	319	
11-CI-PF3OUdS	0.02	0.02	10.81	10.86	641	
PFTDA	0.17	0.18	10.50	10.54	337	
PFDoS	0.47	0.49	11.60	11.64	2458	
PFTDA	0.24	0.26	11.17	11.21	427	

REPORT OF LABORATORY ANALYSIS

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-103046
 Run File Name B221222A_005
 Analyzed 12/22/2022 05:41
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 221219A02
 Level L

Extracted Internal Standards

Compound	Known Conc. ug/Kg	Conc. Found ug/Kg	%Recovery	Recovery Limits	Qualifiers
13C4 PFBA	0.96	0.86	89	50-150	
13C5 PFPeA	0.96	0.84	87	50-150	
13C3 PFBS	0.90	0.79	88	50-150	
13C2 4:2FTS	0.90	0.86	95	50-150	
13C5 PFHxA	0.96	0.80	83	50-150	
13C4 PFHpA	0.96	0.84	87	50-150	
13C3 PFHxS	0.91	0.87	95	50-150	
13C2 6:2FTS	0.91	0.76	83	50-150	
13C8 PFOA	0.96	0.81	84	50-150	
13C9 PFNA	0.96	0.90	93	50-150	
13C8 PFOS	0.92	0.80	87	50-150	
13C2 8:2FTS	0.92	0.80	86	50-150	
13C6 PFDA	0.96	0.82	85	50-150	
d3-MeFOSAA	0.96	0.86	89	50-150	
13C8 PFOSA	0.96	0.84	88	50-150	
d5-EtFOSAA	0.96	0.89	93	50-150	
13C7 PFUdA	0.96	0.94	98	50-150	
13C2 PFDoA	0.96	0.88	92	50-150	
13C2 PFTeDA	0.96	0.83	86	50-150	
13C3 HFPO-DA	0.96	0.81	84	50-150	
d7-N-MeFOSE	0.96	0.74	76	20-150	
d9-N-EtFOSE	0.96	0.78	81	20-150	
d3-N-MeFOSA	0.96	0.71	74	20-150	
d5-N-EtFOSA	0.96	0.76	79	20-150	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-103046
 Run File Name B221222A_005
 Analyzed 12/22/2022 05:41
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 221219A02
 Level L

Native Analytes

Compound	Known Conc. ug/Kg	Conc. Found ug/Kg	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	0.19	0.22	112	50-150		375-22-4
PFPeA	0.19	0.22	116	50-150		2706-90-3
HFPO-DA	0.19	0.21	110	50-150		13252-13-6
PFBS	0.17	0.19	112	50-150		375-73-5
PFHxA	0.19	0.23	119	50-150		307-24-4
4:2 FTS	0.18	0.18	102	50-150		757124-72-4
PFPeS	0.18	0.17	96	50-150		2706-91-4
PFHpA	0.19	0.21	109	50-150		375-85-9
DONA	0.18	0.21	116	50-150		919005-14-4
PFHxS	0.18	0.18	102	50-150		355-46-4
PFOA	0.19	0.22	115	50-150		335-67-1
6:2 FTS	0.18	0.22	119	50-150		27619-97-2
PFHpS	0.18	0.21	114	50-150		375-92-8
PFNA	0.19	0.21	111	50-150		375-95-1
PFOSAm	0.19	0.22	112	50-150		754-91-6
PFOS	0.18	0.19	108	50-150		1763-23-1
MeFOSA	0.19	0.22	114	50-150		31506-32-8
PFDA	0.19	0.22	112	50-150		335-76-2
EtFOSAm	0.19	0.21	107	50-150		4151-50-2
8:2 FTS	0.19	0.20	109	50-150		39108-34-4
9-CI-PF3ON	0.18	0.20	110	50-150		756426-58-1
PFNS	0.19	0.20	106	50-150		68259-12-1
PFUnDA	0.19	0.22	112	50-150		2058-94-8
NMeFOSAA	0.19	0.19	100	50-150		2355-31-9
NEtFOSAA	0.19	0.20	105	50-150		2991-50-6
PFDS	0.19	0.21	111	50-150		335-77-3
PFDOA	0.19	0.22	113	50-150		307-55-1
MeFOSE	0.19	0.22	116	50-150		24448-09-7
EtFOSE	0.19	0.20	105	50-150		1691-99-2
11-CI-PF3OUdS	0.18	0.20	111	50-150		763051-92-9
PFTrDA	0.19	0.20	104	50-150		72629-94-8
PFDoS	0.19	0.21	112	50-150		79780-39-5
PFTDA	0.19	0.21	111	50-150		376-06-7

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-103046
 Run File Name B221222A_005
 Analyzed 12/22/2022 05:41
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 221219A02
 Level L

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.17	4.20	2311	
13C5 PFPeA	N/A	N/A	5.04	5.06	2535	
13C3 PFBS	N/A	N/A	6.01	6.05	2907	
13C2 4:2FTS	N/A	N/A	5.45	5.50	995	
13C5 PFHxA	N/A	N/A	5.74	5.78	1771	
13C4 PFHpA	N/A	N/A	6.42	6.45	2009	
13C3 PFHxS	N/A	N/A	7.53	7.50	3706	
13C2 6:2FTS	N/A	N/A	6.74	6.77	2473	
13C8 PFOA	N/A	N/A	7.09	7.13	2482	
13C9 PFNA	N/A	N/A	7.76	7.78	2728	
13C8 PFOS	N/A	N/A	8.94	8.98	3125	
13C2 8:2FTS	N/A	N/A	8.05	8.07	2507	
13C6 PFDA	N/A	N/A	8.44	8.46	1328	
d3-MeFOSAA	N/A	N/A	8.29	8.31	1874	
13C8 PFOSA	N/A	N/A	10.58	10.62	1207	
d5-EtFOSAA	N/A	N/A	8.59	8.61	1585	
13C7 PFUdA	N/A	N/A	9.12	9.16	2649	
13C2 PFDoA	N/A	N/A	9.82	9.85	1324	
13C2 PFTeDA	N/A	N/A	11.16	11.21	1657	
13C3 HFPO-DA	N/A	N/A	6.02	6.03	2032	
d7-N-MeFOSE	N/A	N/A	12.50	12.54	45	
d9-N-EtFOSE	N/A	N/A	12.97	13.00	293	
d3-N-MeFOSA	N/A	N/A	12.71	12.73	609	
d5-N-EtFOSA	N/A	N/A	13.13	13.15	830	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-103046
 Run File Name B221222A_005
 Analyzed 12/22/2022 05:41
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 221219A02
 Level L

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.18	4.20	204	
PFPeA	N/A	N/A	5.05	5.06	442	
HFPO-DA	0.34	0.29	6.03	6.04	1757	
PFBS	0.36	0.42	6.01	6.03	3584	
PFHxA	0.07	0.08	5.75	5.76	289	
4:2 FTS	0.85	0.82	5.46	5.50	2336	
PFPeS	0.47	0.36	6.80	6.83	50551	
PFHpA	0.26	0.28	6.43	6.46	450	
DONA	0.54	0.52	6.67	6.70	1171	
PFHxS	0.36	0.36	7.53	7.58	1809	
PFOA	0.38	0.39	7.10	7.11	233	
6:2 FTS	0.83	0.82	6.75	6.76	63	
PFHpS	0.37	0.38	8.25	8.27	4978	
PFNA	0.16	0.15	7.77	7.79	522	
PFOSAm	N/A	N/A	10.59	10.71	764	
PFOS	0.43	0.39	8.95	9.11	363	
MeFOSA	0.55	0.58	12.73	12.78	607	
PFDA	0.17	0.16	8.45	8.53	276	
EtFOSAm	0.48	0.48	13.15	13.20	1016	
8:2 FTS	0.84	0.86	8.06	8.13	9752	
9-CI-PF3ON	0.06	0.06	9.46	9.49	707	
PFNS	0.46	0.47	9.65	9.68	2089	
PFUnDA	0.12	0.12	9.13	9.17	540	
NMeFOSAA	0.83	0.91	8.30	8.32	250	
NEtFOSAA	0.63	0.59	8.60	8.62	264	
PFDS	0.31	0.29	10.33	10.37	2741	
PFDOA	0.15	0.16	9.83	9.86	412	
MeFOSE	N/A	N/A	12.55	12.59	389	
EtFOSE	0.00	0.00	13.01	13.04	400	
11-CI-PF3OUdS	0.02	0.02	10.81	10.86	694	
PFTrDA	0.17	0.15	10.51	10.54	347	
PFDoS	0.49	0.45	11.58	11.64	2377	
PFTDA	0.25	0.24	11.17	11.21	391	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-103212
 Run File Name B230103C_005
 Analyzed 01/03/2023 19:30
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 230103A02
 Level L

Extracted Internal Standards

Compound	Known Conc. ng/L	Conc. Found ng/L	%Recovery	Recovery Limits	Qualifiers
13C4 PFBA	20	19	95	50-150	
13C5 PFPeA	20	19	91	50-150	
13C3 PFBS	19	18	95	50-150	
13C2 4:2FTS	19	21	109	50-150	
13C5 PFHxA	20	19	95	50-150	
13C4 PFHpA	20	21	101	50-150	
13C3 PFHxS	19	20	106	50-150	
13C2 6:2FTS	19	18	92	50-150	
13C8 PFOA	20	21	102	50-150	
13C9 PFNA	20	20	99	50-150	
13C8 PFOS	19	16	84	50-150	
13C2 8:2FTS	20	16	81	50-150	
13C6 PFDA	20	17	85	50-150	
d3-MeFOSAA	20	19	91	50-150	
13C8 PFOSA	20	17	82	50-150	
d5-EtFOSAA	20	16	79	50-150	
13C7 PFUdA	20	18	88	50-150	
13C2 PFDoA	20	19	93	50-150	
13C2 PFTeDA	20	18	89	50-150	
13C3 HFPO-DA	20	19	95	50-150	
d7-N-MeFOSE	20	17	81	20-150	
d9-N-EtFOSE	20	18	88	20-150	
d3-N-MeFOSA	20	14	70	20-150	
d5-N-EtFOSA	20	15	71	20-150	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-103212
 Run File Name B230103C_005
 Analyzed 01/03/2023 19:30
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 230103A02
 Level L

Native Analytes

Compound	Known Conc. ng/L	Conc. Found ng/L	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	4.1	4.2	104	50-150		375-22-4
PFPeA	4.1	4.3	105	50-150		2706-90-3
HFPO-DA	4.1	4.0	98	50-150		13252-13-6
PFBS	3.6	4.0	110	50-150		375-73-5
PFHxA	4.1	4.4	107	50-150		307-24-4
4:2 FTS	3.8	3.4	91	50-150		757124-72-4
PFPeS	3.8	3.8	99	50-150		2706-91-4
PFHpA	4.1	4.1	100	50-150		375-85-9
DONA	3.8	4.1	106	50-150		919005-14-4
PFHxS	3.7	3.8	103	50-150		355-46-4
PFOA	4.1	4.4	108	50-150		335-67-1
6:2 FTS	3.9	4.1	105	50-150		27619-97-2
PFHpS	3.9	4.2	108	50-150		375-92-8
PFNA	4.1	4.1	101	50-150		375-95-1
PFOSAm	4.1	4.0	98	50-150		754-91-6
PFOS	3.8	3.7	99	50-150		1763-23-1
MeFOSA	4.1	4.0	98	50-150		31506-32-8
PFDA	4.1	4.3	106	50-150		335-76-2
EtFOSAm	4.1	3.9	96	50-150		4151-50-2
8:2 FTS	3.9	4.4	113	50-150		39108-34-4
9-CI-PF3ON	3.8	3.9	103	50-150		756426-58-1
PFNS	3.9	3.5	90	50-150		68259-12-1
PFUnDA	4.1	4.4	108	50-150		2058-94-8
NMeFOSAA	4.1	3.7	92	50-150		2355-31-9
NEtFOSAA	4.1	4.3	106	50-150		2991-50-6
PFDS	3.9	3.8	98	50-150		335-77-3
PFDOA	4.1	3.7	90	50-150		307-55-1
MeFOSE	4.1	3.8	94	50-150		24448-09-7
EtFOSE	4.1	4.4	107	50-150		1691-99-2
11-CI-PF3OUdS	3.8	3.7	97	50-150		763051-92-9
PFTrDA	4.1	3.9	95	50-150		72629-94-8
PFDoS	3.9	3.6	92	50-150		79780-39-5
PFTDA	4.1	5.1	126	50-150		376-06-7

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-103212
 Run File Name B230103C_005
 Analyzed 01/03/2023 19:30
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 230103A02
 Level L

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.17	4.14	2739	
13C5 PFPeA	N/A	N/A	5.04	5.06	2315	
13C3 PFBS	N/A	N/A	6.03	6.02	2395	
13C2 4:2FTS	N/A	N/A	5.46	5.47	1064	
13C5 PFHxA	N/A	N/A	5.75	5.76	1898	
13C4 PFHpA	N/A	N/A	6.44	6.45	2296	
13C3 PFHxS	N/A	N/A	7.54	7.54	2626	
13C2 6:2FTS	N/A	N/A	6.77	6.77	4423	
13C8 PFOA	N/A	N/A	7.11	7.11	2382	
13C9 PFNA	N/A	N/A	7.76	7.78	2292	
13C8 PFOS	N/A	N/A	8.91	8.96	3095	
13C2 8:2FTS	N/A	N/A	8.04	8.07	13859	
13C6 PFDA	N/A	N/A	8.42	8.46	1675	
d3-MeFOSAA	N/A	N/A	8.28	8.31	1266	
13C8 PFOSA	N/A	N/A	10.48	10.54	1181	
d5-EtFOSAA	N/A	N/A	8.57	8.61	1552	
13C7 PFUdA	N/A	N/A	9.08	9.16	2548	
13C2 PFDoA	N/A	N/A	9.74	9.85	1628	
13C2 PFTeDA	N/A	N/A	11.03	11.19	1286	
13C3 HFPO-DA	N/A	N/A	6.04	6.04	1908	
d7-N-MeFOSE	N/A	N/A	12.37	12.51	40	
d9-N-EtFOSE	N/A	N/A	12.86	12.97	464	
d3-N-MeFOSA	N/A	N/A	12.58	12.70	621	
d5-N-EtFOSA	N/A	N/A	13.01	13.11	698	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-103212
 Run File Name B230103C_005
 Analyzed 01/03/2023 19:30
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 230103A02
 Level L

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.17	4.14	391	
PFPeA	N/A	N/A	5.05	5.05	453	
HFPO-DA	0.33	0.28	6.05	6.05	1168	
PFBS	0.43	0.45	6.03	6.03	1711	
PFHxA	0.07	0.07	5.76	5.76	454	
4:2 FTS	0.83	0.80	5.47	5.48	1437	
PFPeS	0.42	0.45	6.82	6.82	961	
PFHpA	0.31	0.29	6.45	6.45	379	
DONA	0.60	0.62	6.70	6.70	1054	
PFHxS	0.34	0.37	7.54	7.55	1013	
PFOA	0.39	0.41	7.12	7.11	245	
6:2 FTS	0.90	0.83	6.77	6.76	54	
PFHpS	0.38	0.29	8.24	8.27	2200	
PFNA	0.16	0.16	7.77	7.79	526	
PFOSAm	N/A	N/A	10.49	10.55	938	
PFOS	0.39	0.37	8.92	8.99	464	
MeFOSA	0.53	0.66	12.60	12.74	484	
PFDA	0.15	0.16	8.43	8.47	443	
EtFOSAm	0.56	0.45	13.03	13.03	936	
8:2 FTS	0.88	0.95	8.05	8.08	3391	
9-CI-PF3ON	0.05	0.05	9.40	9.49	1208	
PFNS	0.53	0.48	9.58	9.68	1041	
PFUnDA	0.12	0.14	9.09	9.09	463	
NMeFOSAA	0.76	0.72	8.29	8.32	32391	
NEtFOSAA	0.70	0.60	8.58	8.62	419	
PFDS	0.36	0.36	10.22	10.35	1899	
PFDOA	0.19	0.18	9.75	9.86	419	
MeFOSE	N/A	N/A	12.42	12.55	409	
EtFOSE	0.00	0.00	12.89	13.04	434	
11-CI-PF3OUdS	0.02	0.02	10.69	10.84	683	
PFTrDA	0.17	0.17	10.40	10.54	397	
PFDoS	0.49	0.45	11.43	11.61	1867	
PFTDA	0.20	0.21	11.04	11.21	527	

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MS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10635405020-MS
 Run File Name B221220C_031
 Analyzed 12/21/2022 06:40
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 221219A02
 Level

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc. Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers
13C4 PFBA	0.98	0.86	88	25-150	
13C5 PFPeA	0.98	0.85	87	25-150	
13C3 PFBS	0.91	0.84	92	25-150	
13C2 4:2FTS	0.91	0.84	92	25-150	
13C5 PFHxA	0.98	0.85	87	25-150	
13C4 PFHpA	0.98	0.80	82	25-150	
13C3 PFHxS	0.93	0.78	85	25-150	
13C2 6:2FTS	0.93	0.80	87	25-150	
13C8 PFOA	0.98	0.86	88	25-150	
13C9 PFNA	0.98	0.82	84	25-150	
13C8 PFOS	0.94	1.1	112	25-150	D
13C2 8:2FTS	0.94	0.80	86	25-150	
13C6 PFDA	0.98	0.88	90	25-150	
d3-MeFOSAA	0.98	0.83	85	25-150	
13C8 PFOSA	0.98	0.81	82	25-150	
d5-EtFOSAA	0.98	0.81	83	25-150	
13C7 PFUdA	0.98	0.82	84	25-150	
13C2 PFDoA	0.98	0.85	87	25-150	
13C2 PFTeDA	0.98	0.80	82	25-150	
13C3 HFPO-DA	0.98	0.85	87	25-150	
d7-N-MeFOSE	0.98	0.83	85	10-150	
d9-N-EtFOSE	0.98	0.70	72	10-150	
d3-N-MeFOSA	0.98	0.75	76	10-150	
d5-N-EtFOSA	0.98	0.73	74	10-150	

REPORT OF LABORATORY ANALYSIS

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MS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10635405020-MS
 Run File Name B221220C_031
 Analyzed 12/21/2022 06:40
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 221219A02
 Level

Native Analytes

Compound	Sample Conc. (ug/Kg)	Known Conc. (ug/Kg)	Conc. Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	0.00	0.20	0.23	120	50-150		375-22-4
PFPeA	0.00	0.20	0.23	119	50-150		2706-90-3
HFPO-DA	0.00	0.20	0.24	123	50-150		13252-13-6
PFBS	0.00	0.17	0.20	116	50-150		375-73-5
PFHxA	0.00	0.20	0.24	124	50-150		307-24-4
4:2 FTS	0.00	0.18	0.22	122	50-150		757124-72-4
PFPeS	0.00	0.18	0.21	116	50-150		2706-91-4
PFHpA	0.00	0.20	0.24	121	50-150		375-85-9
DONA	0.00	0.18	0.23	124	50-150		919005-14-4
PFHxS	0.67	0.18	1.0	207	50-150	R	355-46-4
PFOA	0.039 J	0.20	0.30	131	50-150		335-67-1
6:2 FTS	0.00	0.19	0.24	131	50-150		27619-97-2
PFHpS	0.081 J	0.19	0.40	172	50-150	R	375-92-8
PFNA	0.00	0.20	0.25	126	50-150		375-95-1
PFOSAm	0.00	0.20	0.24	121	50-150		754-91-6
PFOS	18 D	0.18	26	4410	50-150	RD	1763-23-1
MeFOSA	0.00	0.20	0.25	128	50-150		31506-32-8
PFDA	0.00	0.20	0.26	132	50-150		335-76-2
EtFOSAm	0.00	0.20	0.22	111	50-150		4151-50-2
8:2 FTS	0.00	0.19	0.20	106	50-150		39108-34-4
9-CI-PF3ON	0.00	0.18	0.27	150	50-150		756426-58-1
PFNS	0.00	0.18	0.26	143	50-150		68259-12-1
PFUnDA	0.00	0.20	0.22	114	50-150		2058-94-8
NMeFOSAA	0.00	0.20	0.21	107	50-150		2355-31-9
NEtFOSAA	0.00	0.20	0.21	109	50-150		2991-50-6
PFDS	0.00	0.19	0.27	145	50-150		335-77-3
PFDOA	0.00	0.20	0.23	119	50-150		307-55-1
MeFOSE	0.00	0.20	0.21	107	50-150		24448-09-7
EtFOSE	0.00	0.20	0.26	132	50-150		1691-99-2
11-CI-PF3OUdS	0.00	0.18	0.26	143	50-150		763051-92-9
PFTTrDA	0.00	0.20	0.22	112	50-150		72629-94-8
PFDoS	0.00	0.19	0.29	155	50-150	R	79780-39-5
PFTDA	0.00	0.20	0.24	122	50-150		376-06-7

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MS Analysis Summary
 PFAS by Isotope Dilution

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Lab Sample ID 10635405020-MS
 Run File Name B221220C_031
 Analyzed 12/21/2022 06:40
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 221219A02
 Level

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.18	4.20	2278	
13C5 PFPeA	N/A	N/A	5.04	5.06	2433	
13C3 PFBS	N/A	N/A	6.01	6.05	2131	
13C2 4:2FTS	N/A	N/A	5.45	5.50	858	
13C5 PFHxA	N/A	N/A	5.74	5.78	1869	
13C4 PFHpA	N/A	N/A	6.42	6.45	1792	
13C3 PFHxS	N/A	N/A	7.53	7.58	2385	
13C2 6:2FTS	N/A	N/A	6.74	6.77	1335	
13C8 PFOA	N/A	N/A	7.09	7.13	2793	
13C9 PFNA	N/A	N/A	7.76	7.78	2015	
13C8 PFOS	N/A	N/A	8.96	8.98	2472	D
13C2 8:2FTS	N/A	N/A	8.06	8.07	3030	
13C6 PFDA	N/A	N/A	8.45	8.46	1148	
d3-MeFOSAA	N/A	N/A	8.30	8.31	3560	
13C8 PFOSA	N/A	N/A	10.60	10.62	1215	
d5-EtFOSAA	N/A	N/A	8.60	8.61	1513	
13C7 PFUdA	N/A	N/A	9.14	9.16	2373	
13C2 PFDoA	N/A	N/A	9.84	9.85	1307	
13C2 PFTeDA	N/A	N/A	11.19	11.21	1040	
13C3 HFPO-DA	N/A	N/A	6.02	6.03	1600	
d7-N-MeFOSE	N/A	N/A	12.52	12.54	44	
d9-N-EtFOSE	N/A	N/A	12.99	13.00	317	
d3-N-MeFOSA	N/A	N/A	12.72	12.73	549	
d5-N-EtFOSA	N/A	N/A	13.14	13.15	769	

REPORT OF LABORATORY ANALYSIS

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MS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10635405020-MS
 Run File Name B221220C_031
 Analyzed 12/21/2022 06:40
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 221219A02
 Level

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.19	4.20	191	
PFPeA	N/A	N/A	5.05	5.06	438	
HFPO-DA	0.30	0.36	6.03	6.04	1317	
PFBS	0.44	0.41	6.01	6.03	1085	
PFHxA	0.07	0.09	5.75	5.76	310	
4:2 FTS	0.81	0.83	5.46	5.50	1748	
PFPeS	0.44	0.44	6.80	6.83	10788	
PFHpA	0.33	0.32	6.43	6.46	445	
DONA	0.52	0.59	6.67	6.70	1141	
PFHxS	0.38	0.39	7.53	7.58	1856	R
PFOA	0.36	0.39	7.10	7.11	260	
6:2 FTS	0.74	0.92	6.74	6.76	51	
PFHpS	0.41	0.46	8.25	8.27	804	R
PFNA	0.17	0.17	7.77	7.79	498	
PFOSAm	N/A	N/A	10.61	10.71	720	
PFOS	0.38	0.36	8.97	8.99	596	RD
MeFOSA	0.52	0.60	12.74	12.78	618	
PFDA	0.15	0.17	8.46	8.46	368	
EtFOSAm	0.50	0.51	13.17	13.20	918	
8:2 FTS	0.97	0.88	8.06	8.13	4109	
9-CI-PF3ON	0.06	0.07	9.47	9.49	964	
PFNS	0.48	0.46	9.66	9.68	461	
PFUnDA	0.14	0.13	9.15	9.17	390	
NMeFOSAA	0.86	0.90	8.31	8.32	109061	
NEtFOSAA	0.64	0.61	8.62	8.62	342	
PFDS	0.32	0.33	10.35	10.37	679	
PFDOA	0.17	0.17	9.84	9.86	460	
MeFOSE	N/A	N/A	12.56	12.59	447	
EtFOSE	0.00	0.00	13.03	13.04	391	
11-CI-PF3OUdS	0.02	0.02	10.84	10.86	645	
PFTrDA	0.17	0.17	10.53	10.54	402	
PFDoS	0.46	0.45	11.61	11.64	984	R
PFTDA	0.26	0.26	11.19	11.21	413	

REPORT OF LABORATORY ANALYSIS

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MSD Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10635405020-MSD
 Run File Name B221220C_032
 Analyzed 12/21/2022 07:00
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 221219A02
 Level

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc. Found (ug/Kg)	%Recovery	Recovery Limits	RPD	Qualifiers
13C4 PFBA	0.97	0.80	83	25-150	5.7	
13C5 PFPeA	0.97	0.78	80	25-150	7.7	
13C3 PFBS	0.90	0.79	88	25-150	4.6	
13C2 4:2FTS	0.90	0.78	86	25-150	6.0	
13C5 PFHxA	0.97	0.76	78	25-150	10.4	
13C4 PFHpA	0.97	0.76	79	25-150	4.0	
13C3 PFHxS	0.91	0.71	77	25-150	9.3	
13C2 6:2FTS	0.92	0.75	82	25-150	5.9	
13C8 PFOA	0.97	0.80	83	25-150	5.3	
13C9 PFNA	0.97	0.79	82	25-150	2.7	
13C8 PFOS	0.92	1.0	109	25-150	38.4	D
13C2 8:2FTS	0.93	0.71	77	25-150	10.6	
13C6 PFDA	0.97	0.87	90	25-150	0.1	
d3-MeFOSAA	0.97	0.84	87	25-150	1.6	
13C8 PFOSA	0.97	0.78	81	25-150	2.1	
d5-EtFOSAA	0.97	0.75	77	25-150	6.5	
13C7 PFUdA	0.97	0.72	75	25-150	12.1	
13C2 PFDoA	0.97	0.79	81	25-150	6.3	
13C2 PFTeDA	0.97	0.76	79	25-150	4.0	
13C3 HFPO-DA	0.97	0.81	84	25-150	3.0	
d7-N-MeFOSE	0.97	0.78	81	10-150	4.9	
d9-N-EtFOSE	0.97	0.74	77	10-150	6.7	
d3-N-MeFOSA	0.97	0.76	78	10-150	2.6	
d5-N-EtFOSA	0.97	0.71	73	10-150	1.3	

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MSD Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10635405020-MSD
 Run File Name B221220C_032
 Analyzed 12/21/2022 07:00
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 221219A02
 Level

Native Analytes

Compound	Sample Conc. (ug/Kg)	Known Conc. (ug/Kg)	Conc. Found (ug/Kg)	%Recovery	Recovery Limits	RPD	Qualifiers	CAS No.
PFBA	0.00	0.19	0.23	119	50-150	0.4		375-22-4
PFPeA	0.00	0.19	0.23	120	50-150	1.1		2706-90-3
HFPO-DA	0.00	0.19	0.22	116	50-150	5.7		13252-13-6
PFBS	0.00	0.17	0.20	117	50-150	0.6		375-73-5
PFHxA	0.00	0.19	0.23	120	50-150	2.6		307-24-4
4:2 FTS	0.00	0.18	0.21	115	50-150	6.4		757124-72-4
PFPeS	0.00	0.18	0.21	114	50-150	1.1		2706-91-4
PFHpA	0.00	0.19	0.23	118	50-150	2.1		375-85-9
DONA	0.00	0.18	0.22	122	50-150	1.4		919005-14-4
PFHxS	0.67	0.18	0.88	119	50-150	15.2		355-46-4
PFOA	0.039 J	0.19	0.26	113	50-150	12.9		335-67-1
6:2 FTS	0.00	0.18	0.21	117	50-150	11.3		27619-97-2
PFHpS	0.081 J	0.18	0.33	135	50-150	18.2		375-92-8
PFNA	0.00	0.19	0.23	119	50-150	5.5		375-95-1
PFOSAm	0.00	0.19	0.22	115	50-150	5.5		754-91-6
PFOS	18 D	0.18	17	0	50-150	30.9	RD	1763-23-1
MeFOSA	0.00	0.19	0.22	115	50-150	10.3		31506-32-8
PFDA	0.00	0.19	0.23	118	50-150	11.5		335-76-2
EtFOSAm	0.00	0.19	0.22	114	50-150	2.3		4151-50-2
8:2 FTS	0.00	0.19	0.20	109	50-150	2.2		39108-34-4
9-CI-PF3ON	0.00	0.18	0.25	138	50-150	8.6		756426-58-1
PFNS	0.00	0.18	0.25	137	50-150	3.8		68259-12-1
PFUnDA	0.00	0.19	0.24	122	50-150	7.5		2058-94-8
NMeFOSAA	0.00	0.19	0.20	106	50-150	1.6		2355-31-9
NEtFOSAA	0.00	0.19	0.21	110	50-150	0.5		2991-50-6
PFDS	0.00	0.19	0.25	132	50-150	9.8		335-77-3
PFDOA	0.00	0.19	0.23	118	50-150	1.0		307-55-1
MeFOSE	0.00	0.19	0.22	112	50-150	4.1		24448-09-7
EtFOSE	0.00	0.19	0.23	117	50-150	12.3		1691-99-2
11-CI-PF3OUdS	0.00	0.18	0.24	133	50-150	7.0		763051-92-9
PFTTrDA	0.00	0.19	0.22	112	50-150	0.2		72629-94-8
PFDoS	0.00	0.19	0.27	145	50-150	6.9		79780-39-5
PFTDA	0.00	0.19	0.22	116	50-150	4.6		376-06-7

REPORT OF LABORATORY ANALYSIS

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MSD Analysis Summary
 PFAS by Isotope Dilution

Page 3 of 4

Lab Sample ID 10635405020-MSD
 Run File Name B221220C_032
 Analyzed 12/21/2022 07:00
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 221219A02
 Level

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.18	4.20	2295	
13C5 PFPeA	N/A	N/A	5.04	5.06	2397	
13C3 PFBS	N/A	N/A	6.01	6.05	2613	
13C2 4:2FTS	N/A	N/A	5.45	5.50	788	
13C5 PFHxA	N/A	N/A	5.74	5.78	1854	
13C4 PFHpA	N/A	N/A	6.42	6.45	1994	
13C3 PFHxS	N/A	N/A	7.53	7.58	3116	
13C2 6:2FTS	N/A	N/A	6.75	6.77	1349	
13C8 PFOA	N/A	N/A	7.09	7.13	2653	
13C9 PFNA	N/A	N/A	7.77	7.78	2111	
13C8 PFOS	N/A	N/A	8.96	8.98	20025	D
13C2 8:2FTS	N/A	N/A	8.06	8.07	55053	
13C6 PFDA	N/A	N/A	8.45	8.46	1142	
d3-MeFOSAA	N/A	N/A	8.30	8.31	3348	
13C8 PFOSA	N/A	N/A	10.60	10.62	1152	
d5-EtFOSAA	N/A	N/A	8.61	8.61	1293	
13C7 PFUdA	N/A	N/A	9.14	9.16	2008	
13C2 PFDoA	N/A	N/A	9.84	9.85	1357	
13C2 PFTeDA	N/A	N/A	11.18	11.21	1224	
13C3 HFPO-DA	N/A	N/A	6.02	6.03	2375	
d7-N-MeFOSE	N/A	N/A	12.51	12.54	46	
d9-N-EtFOSE	N/A	N/A	12.98	13.00	208	
d3-N-MeFOSA	N/A	N/A	12.71	12.73	914	
d5-N-EtFOSA	N/A	N/A	13.13	13.15	693	

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MSD Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10635405020-MSD
 Run File Name B221220C_032
 Analyzed 12/21/2022 07:00
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 221219A02
 Level

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.19	4.20	214	
PFPeA	N/A	N/A	5.05	5.06	399	
HFPO-DA	0.32	0.36	6.03	6.04	1273	
PFBS	0.43	0.41	6.01	6.03	1888	
PFHxA	0.07	0.09	5.75	5.76	335	
4:2 FTS	0.87	0.83	5.46	5.50	8252	
PFPeS	0.46	0.44	6.80	6.83	1564	
PFHpA	0.29	0.32	6.43	6.46	378	
DONA	0.50	0.59	6.68	6.70	1324	
PFHxS	0.36	0.39	7.54	7.58	1940	
PFOA	0.39	0.39	7.10	7.11	228	
6:2 FTS	0.92	0.92	6.75	6.76	60	
PFHpS	0.43	0.46	8.26	8.27	716	
PFNA	0.16	0.17	7.77	7.79	528	
PFOSAm	N/A	N/A	10.61	10.71	737	
PFOS	0.38	0.36	8.97	8.99	420	RD
MeFOSA	0.51	0.60	12.73	12.78	1106	
PFDA	0.16	0.17	8.46	8.53	339	
EtFOSAm	0.50	0.51	13.15	13.20	824	
8:2 FTS	0.97	0.88	8.06	8.13	3278562	
9-CI-PF3ON	0.06	0.07	9.48	9.49	1127	
PFNS	0.46	0.46	9.67	9.68	611	
PFUnDA	0.13	0.13	9.15	9.17	510	
NMeFOSAA	0.75	0.90	8.32	8.32	17763	
NEtFOSAA	0.67	0.61	8.62	8.62	315	
PFDS	0.35	0.33	10.35	10.37	884	
PFDOA	0.16	0.17	9.84	9.86	443	
MeFOSE	N/A	N/A	12.55	12.59	418	
EtFOSE	0.00	0.00	13.02	13.04	375	
11-CI-PF3OUdS	0.02	0.02	10.83	10.86	659	
PFTrDA	0.16	0.17	10.53	10.54	424	
PFDoS	0.45	0.45	11.60	11.64	769	
PFTDA	0.23	0.26	11.19	11.21	392	

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MS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10635405021-MS
 Run File Name B221222A_010
 Analyzed 12/22/2022 07:21
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 221219A02
 Level

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc. Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers
13C4 PFBA	0.98	0.93	94	25-150	
13C5 PFPeA	0.98	0.92	93	25-150	
13C3 PFBS	0.91	0.84	91	25-150	
13C2 4:2FTS	0.92	1.0	112	25-150	
13C5 PFHxA	0.98	0.88	89	25-150	
13C4 PFHpA	0.98	0.90	91	25-150	
13C3 PFHxS	0.93	0.96	103	25-150	
13C2 6:2FTS	0.93	0.93	99	25-150	
13C8 PFOA	0.98	0.91	92	25-150	
13C9 PFNA	0.98	1.0	103	25-150	
13C8 PFOS	0.94	0.84	89	25-150	
13C2 8:2FTS	0.94	0.92	98	25-150	
13C6 PFDA	0.98	0.89	91	25-150	
d3-MeFOSAA	0.98	0.96	98	25-150	
13C8 PFOSA	0.98	0.90	92	25-150	
d5-EtFOSAA	0.98	1.0	106	25-150	
13C7 PFUdA	0.98	1.0	102	25-150	
13C2 PFDoA	0.98	0.96	97	25-150	
13C2 PFTeDA	0.98	0.83	85	25-150	
13C3 HFPO-DA	0.98	0.92	94	25-150	
d7-N-MeFOSE	0.98	0.80	82	10-150	
d9-N-EtFOSE	0.98	0.87	88	10-150	
d3-N-MeFOSA	0.98	0.78	79	10-150	
d5-N-EtFOSA	0.98	0.75	76	10-150	

REPORT OF LABORATORY ANALYSIS

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MS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10635405021-MS
 Run File Name B221222A_010
 Analyzed 12/22/2022 07:21
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 221219A02
 Level

Native Analytes

Compound	Sample Conc. (ug/Kg)	Known Conc. (ug/Kg)	Conc. Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	0.30	0.20	0.55	125	50-150		375-22-4
PFPeA	0.00	0.20	0.27	136	50-150		2706-90-3
HFPO-DA	0.00	0.20	0.23	115	50-150		13252-13-6
PFBS	0.00	0.17	0.21	119	50-150		375-73-5
PFHxA	0.00	0.20	0.26	133	50-150		307-24-4
4:2 FTS	0.00	0.18	0.20	111	50-150		757124-72-4
PFPeS	0.00	0.19	0.20	108	50-150		2706-91-4
PFHpA	0.00	0.20	0.23	119	50-150		375-85-9
DONA	0.00	0.19	0.20	110	50-150		919005-14-4
PFHxS	0.00	0.18	0.19	108	50-150		355-46-4
PFOA	0.00	0.20	0.25	129	50-150		335-67-1
6:2 FTS	0.00	0.19	0.20	109	50-150		27619-97-2
PFHpS	0.00	0.19	0.23	123	50-150		375-92-8
PFNA	0.00	0.20	0.23	115	50-150		375-95-1
PFOSAm	0.00	0.20	0.23	117	50-150		754-91-6
PFOS	0.048 J	0.18	0.25	110	50-150		1763-23-1
MeFOSA	0.00	0.20	0.25	129	50-150		31506-32-8
PFDA	0.00	0.20	0.25	124	50-150		335-76-2
EtFOSAm	0.00	0.20	0.24	120	50-150		4151-50-2
8:2 FTS	0.00	0.19	0.24	129	50-150		39108-34-4
9-CI-PF3ON	0.00	0.18	0.22	118	50-150		756426-58-1
PFNS	0.00	0.18	0.21	117	50-150		68259-12-1
PFUnDA	0.00	0.20	0.24	122	50-150		2058-94-8
NMeFOSAA	0.00	0.20	0.20	104	50-150		2355-31-9
NEtFOSAA	0.00	0.20	0.20	103	50-150		2991-50-6
PFDS	0.00	0.19	0.21	111	50-150		335-77-3
PFDOA	0.00	0.20	0.23	114	50-150		307-55-1
MeFOSE	0.00	0.20	0.25	128	50-150		24448-09-7
EtFOSE	0.00	0.20	0.23	118	50-150		1691-99-2
11-CI-PF3OUdS	0.00	0.19	0.23	127	50-150		763051-92-9
PFTTrDA	0.00	0.20	0.23	119	50-150		72629-94-8
PFDoS	0.00	0.19	0.24	128	50-150		79780-39-5
PFTDA	0.00	0.20	0.24	123	50-150		376-06-7

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MS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10635405021-MS
 Run File Name B221222A_010
 Analyzed 12/22/2022 07:21
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 221219A02
 Level

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.17	4.20	2257	
13C5 PFPeA	N/A	N/A	5.04	5.06	2639	
13C3 PFBS	N/A	N/A	6.01	6.05	2227	
13C2 4:2FTS	N/A	N/A	5.46	5.50	786	
13C5 PFHxA	N/A	N/A	5.74	5.78	2273	
13C4 PFHpA	N/A	N/A	6.42	6.45	2151	
13C3 PFHxS	N/A	N/A	7.53	7.50	2999	
13C2 6:2FTS	N/A	N/A	6.75	6.77	1193	
13C8 PFOA	N/A	N/A	7.10	7.13	2828	
13C9 PFNA	N/A	N/A	7.77	7.78	2601	
13C8 PFOS	N/A	N/A	8.95	8.98	1643	
13C2 8:2FTS	N/A	N/A	8.06	8.07	1494	
13C6 PFDA	N/A	N/A	8.45	8.46	1336	
d3-MeFOSAA	N/A	N/A	8.30	8.31	2583	
13C8 PFOSA	N/A	N/A	10.59	10.62	1370	
d5-EtFOSAA	N/A	N/A	8.60	8.61	1703	
13C7 PFUdA	N/A	N/A	9.14	9.16	2793	
13C2 PFDoA	N/A	N/A	9.82	9.85	1212	
13C2 PFTeDA	N/A	N/A	11.17	11.21	1311	
13C3 HFPO-DA	N/A	N/A	6.02	6.03	1861	
d7-N-MeFOSE	N/A	N/A	12.52	12.54	44	
d9-N-EtFOSE	N/A	N/A	12.98	13.00	394	
d3-N-MeFOSA	N/A	N/A	12.72	12.73	760	
d5-N-EtFOSA	N/A	N/A	13.13	13.15	729	

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MS Analysis Summary
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 Run File Name B221222A_010
 Analyzed 12/22/2022 07:21
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 221219A02
 Level

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.18	4.20	275	
PFPeA	N/A	N/A	5.05	5.06	430	
HFPO-DA	0.34	0.29	6.03	6.04	1167	
PFBS	0.42	0.42	6.01	6.03	835	
PFHxA	0.09	0.08	5.75	5.76	276	
4:2 FTS	0.83	0.82	5.46	5.50	933	
PFPeS	0.42	0.36	6.80	6.83	1168	
PFHpA	0.29	0.28	6.43	6.46	329	
DONA	0.63	0.52	6.68	6.70	1151	
PFHxS	0.39	0.36	7.54	7.58	1041	
PFOA	0.38	0.39	7.11	7.11	223	
6:2 FTS	0.88	0.82	6.76	6.76	57	
PFHpS	0.40	0.38	8.26	8.27	1023	
PFNA	0.15	0.15	7.78	7.79	561	
PFOSAm	N/A	N/A	10.59	10.71	710	
PFOS	0.40	0.39	8.96	9.11	279	
MeFOSA	0.49	0.58	12.74	12.78	698	
PFDA	0.17	0.16	8.46	8.53	480	
EtFOSAm	0.43	0.48	13.16	13.20	708	
8:2 FTS	0.84	0.86	8.07	8.13	3470	
9-CI-PF3ON	0.07	0.06	9.47	9.49	857	
PFNS	0.45	0.47	9.65	9.68	908	
PFUnDA	0.13	0.12	9.14	9.17	535	
NMeFOSAA	0.80	0.91	8.31	8.32	4296	
NEtFOSAA	0.58	0.59	8.61	8.62	409	
PFDS	0.36	0.29	10.33	10.37	936	
PFDOA	0.18	0.16	9.83	9.86	462	
MeFOSE	N/A	N/A	12.56	12.59	398	
EtFOSE	0.00	0.00	13.02	13.04	358	
11-CI-PF3OUdS	0.02	0.02	10.82	10.86	940	
PFTDA	0.17	0.15	10.51	10.54	440	
PFDoS	0.46	0.45	11.60	11.64	2107	
PFTDA	0.25	0.24	11.17	11.21	352	

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MSD Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10635405021-MSD
 Run File Name B221222A_011
 Analyzed 12/22/2022 07:41
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 221219A02
 Level

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc. Found (ug/Kg)	%Recovery	Recovery Limits	RPD	Qualifiers
13C4 PFBA	0.96	0.90	93	25-150	1.0	
13C5 PFPeA	0.96	0.88	92	25-150	1.7	
13C3 PFBS	0.89	0.83	93	25-150	1.4	
13C2 4:2FTS	0.90	0.88	98	25-150	13.4	
13C5 PFHxA	0.96	0.85	89	25-150	0.6	
13C4 PFHpA	0.96	0.85	88	25-150	3.3	
13C3 PFHxS	0.91	0.83	91	25-150	12.0	
13C2 6:2FTS	0.91	0.81	89	25-150	11.3	
13C8 PFOA	0.96	0.83	87	25-150	6.2	
13C9 PFNA	0.96	0.94	98	25-150	5.0	
13C8 PFOS	0.92	0.70	76	25-150	15.7	
13C2 8:2FTS	0.92	0.90	98	25-150	0.4	
13C6 PFDA	0.96	0.87	91	25-150	0.5	
d3-MeFOSAA	0.96	0.94	98	25-150	0.1	
13C8 PFOSA	0.96	0.86	90	25-150	2.2	
d5-EtFOSAA	0.96	0.91	95	25-150	11.3	
13C7 PFUdA	0.96	0.95	99	25-150	3.0	
13C2 PFDoA	0.96	0.92	96	25-150	1.4	
13C2 PFTeDA	0.96	0.80	83	25-150	1.9	
13C3 HFPO-DA	0.96	0.85	88	25-150	5.8	
d7-N-MeFOSE	0.96	0.79	83	10-150	1.1	
d9-N-EtFOSE	0.96	0.77	80	10-150	9.7	
d3-N-MeFOSA	0.96	0.73	76	10-150	4.6	
d5-N-EtFOSA	0.96	0.71	74	10-150	3.7	

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 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 221219A02
 Level

Native Analytes

Compound	Sample Conc. (ug/Kg)	Known Conc. (ug/Kg)	Conc. Found (ug/Kg)	%Recovery	Recovery Limits	RPD	Qualifiers	CAS No.
PFBA	0.30	0.19	0.54	125	50-150	1.3		375-22-4
PFPeA	0.00	0.19	0.25	131	50-150	3.3		2706-90-3
HFPO-DA	0.00	0.19	0.23	120	50-150	4.3		13252-13-6
PFBS	0.00	0.17	0.20	119	50-150	0.0		375-73-5
PFHxA	0.00	0.19	0.24	127	50-150	4.2		307-24-4
4:2 FTS	0.00	0.18	0.21	118	50-150	5.7		757124-72-4
PFPeS	0.00	0.18	0.20	112	50-150	3.9		2706-91-4
PFHpA	0.00	0.19	0.23	120	50-150	0.6		375-85-9
DONA	0.00	0.18	0.21	116	50-150	5.7		919005-14-4
PFHxS	0.00	0.17	0.21	120	50-150	10.5		355-46-4
PFOA	0.00	0.19	0.26	137	50-150	6.5		335-67-1
6:2 FTS	0.00	0.18	0.21	117	50-150	6.7		27619-97-2
PFHpS	0.00	0.18	0.25	137	50-150	11.0		375-92-8
PFNA	0.00	0.19	0.22	114	50-150	1.0		375-95-1
PFOSAm	0.00	0.19	0.23	119	50-150	2.4		754-91-6
PFOS	0.048 J	0.18	0.27	127	50-150	12.3		1763-23-1
MeFOSA	0.00	0.19	0.23	122	50-150	5.8		31506-32-8
PFDA	0.00	0.19	0.23	121	50-150	2.8		335-76-2
EtFOSAm	0.00	0.19	0.22	116	50-150	3.9		4151-50-2
8:2 FTS	0.00	0.18	0.20	106	50-150	19.5		39108-34-4
9-CI-PF3ON	0.00	0.18	0.26	143	50-150	18.7		756426-58-1
PFNS	0.00	0.18	0.24	133	50-150	12.4		68259-12-1
PFUnDA	0.00	0.19	0.23	120	50-150	1.6		2058-94-8
NMeFOSAA	0.00	0.19	0.18	93	50-150	10.9		2355-31-9
NEtFOSAA	0.00	0.19	0.21	111	50-150	7.2		2991-50-6
PFDS	0.00	0.19	0.24	130	50-150	15.7		335-77-3
PFDOA	0.00	0.19	0.24	124	50-150	8.3		307-55-1
MeFOSE	0.00	0.19	0.22	116	50-150	9.8		24448-09-7
EtFOSE	0.00	0.19	0.22	115	50-150	2.8		1691-99-2
11-CI-PF3OUdS	0.00	0.18	0.26	145	50-150	13.4		763051-92-9
PFTTrDA	0.00	0.19	0.22	112	50-150	6.1		72629-94-8
PFDoS	0.00	0.19	0.27	145	50-150	12.0		79780-39-5
PFTDA	0.00	0.19	0.24	125	50-150	1.7		376-06-7

REPORT OF LABORATORY ANALYSIS

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MSD Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10635405021-MSD
 Run File Name B221222A_011
 Analyzed 12/22/2022 07:41
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 221219A02
 Level

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.17	4.20	2478	
13C5 PFPeA	N/A	N/A	5.04	5.06	2684	
13C3 PFBS	N/A	N/A	6.00	6.05	2009	
13C2 4:2FTS	N/A	N/A	5.45	5.50	709	
13C5 PFHxA	N/A	N/A	5.74	5.78	2665	
13C4 PFHpA	N/A	N/A	6.42	6.45	1762	
13C3 PFHxS	N/A	N/A	7.53	7.50	2672	
13C2 6:2FTS	N/A	N/A	6.74	6.77	1441	
13C8 PFOA	N/A	N/A	7.09	7.13	2794	
13C9 PFNA	N/A	N/A	7.77	7.78	2043	
13C8 PFOS	N/A	N/A	8.96	8.98	1403	
13C2 8:2FTS	N/A	N/A	8.06	8.07	1208	
13C6 PFDA	N/A	N/A	8.46	8.46	1267	
d3-MeFOSAA	N/A	N/A	8.31	8.31	2197	
13C8 PFOSA	N/A	N/A	10.59	10.62	1237	
d5-EtFOSAA	N/A	N/A	8.60	8.61	1881	
13C7 PFUdA	N/A	N/A	9.15	9.16	2972	
13C2 PFDoA	N/A	N/A	9.84	9.85	1090	
13C2 PFTeDA	N/A	N/A	11.17	11.21	1454	
13C3 HFPO-DA	N/A	N/A	6.02	6.03	1869	
d7-N-MeFOSE	N/A	N/A	12.51	12.54	43	
d9-N-EtFOSE	N/A	N/A	12.98	13.00	356	
d3-N-MeFOSA	N/A	N/A	12.71	12.73	510	
d5-N-EtFOSA	N/A	N/A	13.14	13.15	768	

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MSD Analysis Summary
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 Analyzed 12/22/2022 07:41
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00012
 Ical ID 221219A02
 Level

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.18	4.20	314	
PFPeA	N/A	N/A	5.05	5.06	442	
HFPO-DA	0.32	0.29	6.03	6.04	1222	
PFBS	0.38	0.42	6.01	6.03	1380	
PFHxA	0.09	0.08	5.74	5.76	319	
4:2 FTS	0.88	0.82	5.46	5.50	821	
PFPeS	0.49	0.36	6.80	6.83	1080	
PFHpA	0.28	0.28	6.43	6.46	293	
DONA	0.56	0.52	6.67	6.70	1109	
PFHxS	0.38	0.36	7.53	7.58	1027	
PFOA	0.38	0.39	7.10	7.11	235	
6:2 FTS	0.94	0.82	6.75	6.76	51	
PFHpS	0.36	0.38	8.26	8.27	798	
PFNA	0.16	0.15	7.78	7.79	574	
PFOSAm	N/A	N/A	10.60	10.71	794	
PFOS	0.43	0.39	8.97	9.11	392	
MeFOSA	0.56	0.58	12.74	12.78	597	
PFDA	0.17	0.16	8.47	8.47	369	
EtFOSAm	0.48	0.48	13.16	13.20	806	
8:2 FTS	0.90	0.86	8.06	8.13	4568	
9-CI-PF3ON	0.06	0.06	9.47	9.49	950	
PFNS	0.47	0.47	9.66	9.68	774	
PFUnDA	0.13	0.12	9.15	9.17	473	
NMeFOSAA	0.97	0.91	8.32	8.32	1209	
NEtFOSAA	0.66	0.59	8.62	8.62	368	
PFDS	0.33	0.29	10.34	10.37	924	
PFDOA	0.15	0.16	9.84	9.86	406	
MeFOSE	N/A	N/A	12.55	12.59	317	
EtFOSE	0.00	0.00	13.02	13.04	303	
11-CI-PF3OUdS	0.02	0.02	10.82	10.86	824	
PFTrDA	0.17	0.15	10.52	10.54	401	
PFDoS	0.47	0.45	11.59	11.64	1879	
PFTDA	0.24	0.24	11.17	11.21	442	

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