State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Site Investigation Sample Results Notification

Form 4400-249 (R 03/14)

Notice: This form may be used to comply with the requirements of s. NR 716.14 (2), Wis. Adm. Code; however, use of this form is not required. An alternate format may be used. The rule requires that notification be provided to 1) property owners when someone else is conducting the sampling, 2) to occupants of property belonging to the responsible person, and 3) to owners and occupants of property that does not belong to the responsible person but has been affected by contamination arising on his or her property. Notification is required within 10 business days of receiving the sample results. Personal information collected will be used for program administration and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

NOTE: Under s. NR 716.14, Wis. Adm. Code, the responsible party must also submit sample results and other required information to the DNR. We recommend that copies of the sample results notifications be included with that submittal, along with all attachments. Using the same format used for data presentation for a closure request may be helpful to all parties. See s. NR 716.14, Wis. Adm. Code for the full list of information to be submitted to the DNR.

Notification of Property Owners and Occupants:

This notification form has been provided to you in order to provide the results of environmental sampling that has been conducted on property that you own or occupy. Samples were collected in accordance with the methods identified in the site investigation work plan, in accordance with s. NR. 716.09 and 716.13, Wis. Adm. Code. This sampling was conducted as a result of contamination originating at the following location.

Site Information

Site Name			DNR ID # (BRRTS #)
Fincantieri Marinette Marine			02-38-587281
Address	**City**	**State**	**ZIP Code**
1600 Ely Street	Marinette	WI	54143

Responsible Party

The person(s) responsible for completing this environmental investigation is:

Property Owner			
Fincantieri Marinette Marine			
Address	**City**	**State**	**ZIP Code**
1600 Ely Street	Marinette	WI	54143

Contact Person	Phone Number (include area code)
Thomas Carow	(715) 839-6241

Person or company that collected samples

AECOM

Sample Results (Results Attached)

Reason for Sampling: ○ Routine ◉ Other (define) PFAS Site Investigation (Work Plan)

The contaminants that have been identified at this time on property that you own or occupy include:

Contaminant	In Soil? Yes	In Soil? No	In Groundwater? Yes	In Groundwater? No
Gasoline	○	○	○	○
Diesel or Fuel Oil	○	○	○	○
Solvents	○	○	○	○
Heavy Metals	○	○	○	○
Pesticides	○	○	○	○
Other: PFAS (Wis 33)	◉	○	◉	○

This sampling event included sampling of a drinking water well.
○ Yes ◉ No

If yes, the sampled drinking water well had detectable contaminants.
○ Yes ○ No

Contaminants in Vapor	Yes	No
Indoor Air	○	○
Sub-slab	○	○
Exterior Soil Gas	○	○

Attached are:

- A map that shows the locations from which samples were collected. (The map needs to meet the requirements of s. NR 716.15 (4), Wis. Adm. Code.)
- A data table with specific contaminant levels at each sample location and whether or not the sample results exceed state standards.
- A copy of the laboratory results.

You are not identified as the person that is responsible for this contamination. However, your cooperation is important. Property owners may become legally responsible for contamination if they do not allow access to the person that is responsible so that person may complete the environmental investigation and clean up activities.

Option for written exemption: You have the option of requesting a written liability exemption from the DNR for contamination that originated on another property, or on property that you lease. To do this, you must present an adequate environmental assessment of your property and pay a $700 fee for review of this information. If you are interested in this option, please see DNR publication # RR 589, "When Contamination Crosses a Property Line - Rights and Responsibilities of Property Owners", available at: dnr.wi.gov/files/PDF/pubs/rr/rr589.pdf.

Contact Information

Please address questions regarding this notification, or requests for additional information to the contact person listed above, or to one of the following contacts:

Environmental Consultant

Company Name	Contact Person Last Name	First Name
AECOM	Mott	Andrew

Address	City	State	ZIP Code
2985 South Ridge Road Suite B	Green Bay	WI	54304

Phone # (inc. area code)	Email
(920) 236-6713	andrew.mott@aecom.com

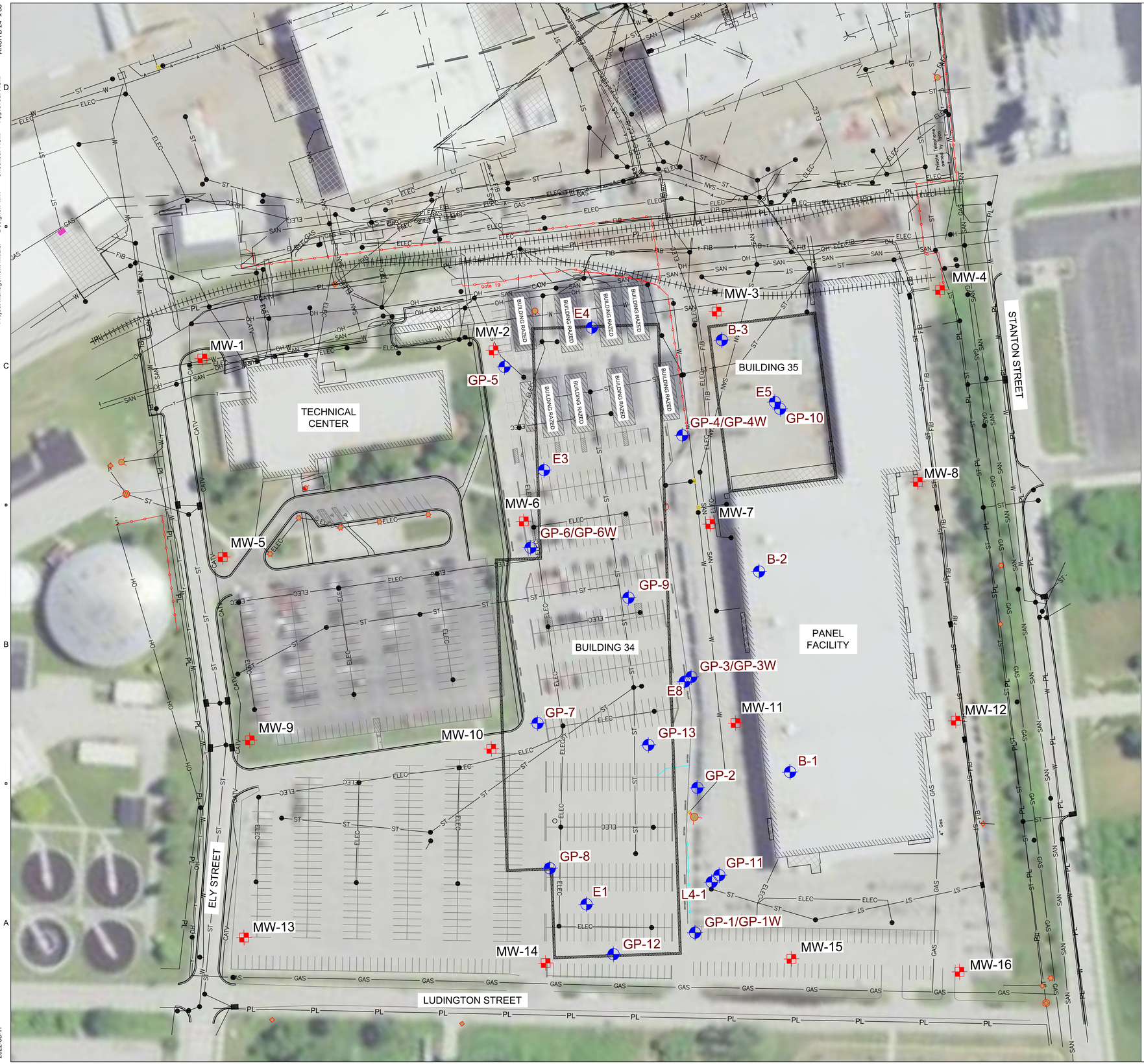
Select which agency: (•) Natural Resources ( ) Agriculture, Trade and Consumer Protection

State of Wisconsin Department of Natural Resources

Contact Person Last Name	First Name	Phone # (inc. area code)
Neste	David	(920) 362-2072

Address	City	State	ZIP Code
625 East Cty Y, Suite 700	Oshkosh	WI	54901

Email
david.neste@wisconsin.gov



EXISTING CONDITIONS LEGEND

- BUILDING 34 AND 35 LAYOUT
- SAN — SANITARY SEWER
- ST — STORM SEWER
- W — WATER UTILITY
- ELEC — ELECTRICAL UTILITY
- GAS — GAS UTILITY
- OH — OVERHEAD UTILITY
- CATV — COMMUNICATION UTILITY
- FIB — FIBER OPTIC UTILITY
- PL — PROPERTY BOUNDARY
- RAILROAD TRACKS
- FIRE HYDRANT
- GP-1 — EXISTING SOIL BORING OR FORMER MONITORING WELLS
- MW-1 — MONITORING WELLS

GENERAL NOTES:

1. THE SITE WAS NOT SURVEYED AND ALL BOUNDARIES ARE APPROXIMATE. HORIZONTAL COORDINATES ARE IN REFERENCE TO THE WISCONSIN COUNTY SYSTEM: MARINETTE (US FOOT). VERTICAL DATUM IN NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).
2. EXISTING UTILITIES SHOWN ARE INDICATED IN ACCORDANCE WITH AVAILABLE RECORDS. OTHER UTILITIES MAY BE PRESENT. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING EXACT LOCATIONS AND ELEVATIONS OF ALL UTILITIES INCLUDING SEWERS AND WATER FROM THE OWNERS OF THE RESPECTIVE SERVICES.
3. MONITORING WELLS INSTALLED BY FOTH GP-1W, GP-3W, GP-4W, AND GP-5W WERE DAMAGED OR REMOVED DURING CONSTRUCTION ACTIVITIES AT BUILDING 34
4. AERIAL IMAGE OBTAINED FROM THE UNITED STATES GEOLOGICAL SURVEY (USGS); IMAGE DATE JULY 27, 2020.

TO OBTAIN LOCATIONS OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE
WIS STATUTE 182.0175(1974)

60 0 60 120
1" = 60'

AECOM

PROJECT

FINCANTIERI MARINETTE MARINE

FINCANTIERI MARINETTE MARINE
1600 Ely Street
Marinette, Wisconsin 54143

CLIENT

FINCANTIERI MARINETTE MARINE
1600 Ely Street
Marinette, Wisconsin 54143
715 735 9341 tel
www.fincantierimarinettemarine.com

CONSULTANT

AECOM Technical Services, Inc.
558 North Main Street
Oshkosh, Wisconsin 54901
920.468.1978 tel
www.aecom.com

REGISTRATION

ISSUE/REVISION

I/R	DATE	DESCRIPTION
0	2022.08.17	ISSUED FOR REVIEW

KEY PLAN

PROJECT NUMBER

60662292

SHEET TITLE

SITE FEATURE MAP
OF SOUTHERN AREA

FIGURE NUMBER

1

ARCH D 24" x 36"
Approved: AGM
Checked: AGM
Designer: MTP
Project Management Initials:
Last Plotted:
Last saved by: OLTEANUM
Filename: C:\USERS\OLTEANUM\AECOM\GDS GIS SERVICES - GIS CAD PROJECTS\DCS AMERICAS\REM\WEST\F464\FMM2.WORKSPACE\16AUG22\FIGURE 2 – SITE DETAIL MAP22.DWG
2022-08-17

Table 1
Soil Analytical Results - PFAS
Fincantari Marinette Marina
Marinette, Wisconsin

		Location:	NR 720 Residual Contaminant Levels			MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8
		Sample Date:				6/13/2022	6/14/2022	6/14/2022	6/15/2022	6/13/2022	6/14/2022	6/14/2022	6/15/2022
		Sample Depth (ft bgs)	Non-Industrial Direct Contact	Industrial Direct Contact	Soil to Groundwater Pathway	1.5-3.5	1.5-3.5	1.5-3.5	1.5-3.5	1.0-3.0	1.5-3.5	1.5-3.5	1.5-3.5
Acronym	Analyte	CAS No.											
Carboxylic Acids (ng/g)													
PFBA	Perfluorobutanoic acid	375-22-4	--	--	--	< 0.45	< 0.454	< 0.454	< 0.456	< 0.447	< 0.451	< 0.449	< 0.442
PFPeA	Perfluoropentanoic acid	2706-90-3	--	--	--	0.896	< 0.363	< 0.363	< 0.365	< 0.358	< 0.36	< 0.359	< 0.354
PFHxA	Perfluorohexanoic acid	307-24-4	--	--	--	0.36 J	< 0.316	< 0.316	< 0.317	< 0.311	< 0.313	< 0.312	< 0.308
PFHpA	Perfluoroheptanoic acid	375-85-9	--	--	--	< 0.475	< 0.48	< 0.479	< 0.482	< 0.472	< 0.476	< 0.475	< 0.467
PFOA	Perfluorooctanoic acid	335-67-1	1,260	16,400	--	< 0.264	< 0.266	< 0.266	0.281 J	< 0.262	0.855	0.435 J	< 0.26
PFNA	Perfluorononaoic acid	375-95-1	--	--	--	< 0.364	< 0.367	< 0.367	< 0.369	< 0.361	< 0.364	< 0.363	< 0.358
PFDA	Perfluorodecanoic acid	335-76-2	--	--	--	< 0.432	< 0.436	< 0.436	< 0.438	< 0.429	< 0.433	< 0.432	< 0.425
PFUnA	Perfluoroundecanoic acid	2058-94-8	--	--	--	< 0.495	< 0.499	< 0.499	< 0.501	< 0.492	< 0.496	< 0.494	< 0.487
PFDoA	Perfluorododecanoic acid	307-55-1	--	--	--	< 0.446	< 0.45	< 0.45	< 0.452	< 0.443	< 0.447	< 0.445	< 0.438
PFTrDA	Perfluorotridecanoic acid	72629-94-8	--	--	--	< 0.397	< 0.401	< 0.4	< 0.402	< 0.395	< 0.398	< 0.396	< 0.39
PFTeDA	Perfluorotetradecanoic acid	376-06-7	--	--	--	< 0.419	< 0.422	< 0.422	< 0.424	< 0.416	< 0.419	< 0.418	< 0.412
Sulfonic Acids (ng/g)													
PFBS	Perfluorobutanesulfonic acid	375-73-5	1,260,000	16,400,000	--	< 0.299	< 0.302	< 0.302	< 0.303	< 0.297	< 0.3	< 0.299	< 0.294
PFPeS	Perfluoropentane Sulfonic Acid	2706-91-4	--	--	--	< 0.293	< 0.296	< 0.296	< 0.297	< 0.292	< 0.294	< 0.293	< 0.288
PFHxS	Perfluorohexanesulfonoic acid	355-46-4		--	--	< 0.301	< 0.304	< 0.304	< 0.305	< 0.299	0.315 J	< 0.301	0.364 J
PFHpS	Perfluoroheptanesulfonic acid	375-92-8	--	--	--	< 0.505	< 0.509	< 0.509	< 0.511	< 0.501	< 0.505	< 0.504	< 0.496
PFOS	Perfluorooctanesulfonic acid	1763-23-1	1,260	16,400	--	< 0.634	0.718 J	1.48	2.82	< 0.63	3.94	1.32	4.35
PFNS	Perfluorononanesulfonic acid	68259-12-1	--	--	--	< 0.81	< 0.817	< 0.817	< 0.82	< 0.805	< 0.811	< 0.808	< 0.796
PFDS	Perfluorodecanesulfonic acid	335-77-3	--	--	--	< 0.237	< 0.239	< 0.239	< 0.24	< 0.235	< 0.237	< 0.236	< 0.233
PFDoS	Perfluorododecanesulfonic acid	79780-39-5	--	--	--	< 0.413	< 0.417	< 0.416	< 0.418	< 0.41	< 0.413	< 0.412	< 0.406
4:2 FTS	4:2 Fluorotelomer Sulfonic Acid	757124-72-4	--	--	--	< 0.63	< 0.636	< 0.635	< 0.638	< 0.626	< 0.631	< 0.629	< 0.619
6:2 FTS	6:2 Fluorotelomer sulfonic acid	27619-97-2	--	--	--	< 0.507	< 0.511	< 0.511	0.658 J	< 0.503	< 0.507	0.646 J	< 0.498
8:2 FTS	8:2 Fluorotelomer sulfonic acid	39108-34-4	--	--	--	< 0.575	< 0.58	< 0.58	0.616 J	< 0.571	< 0.576	< 0.574	< 0.565
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols (ng/g)													
PFOSA	Perfluorooctane sulfonamide	754-91-6	--	--	--	< 0.56	< 0.565	< 0.564	< 0.567	< 0.556	< 0.56	< 0.558	< 0.55
NMeFOSA	N-Methyl perfluorooctane sulfonamide	31506-32-8	--	--	--	< 1.31	< 1.32	< 1.32	< 1.33	< 1.3	< 1.31	< 1.31	< 1.29
NEtFOSA	N-Ethyl perfluorooctane sulfonamide	4151-50-2	--	--	--	< 0.759	< 0.766	< 0.765	< 0.769	< 0.754	< 0.76	< 0.758	< 0.746
MeFOSAA	N-Methylperfluorooctanesulfonamidoacetic acid	2355-31-9	--	--	--	< 0.395	< 0.399	< 0.398	< 0.4	< 0.393	< 0.396	< 0.394	< 0.388
EtFOSAA	N-Ethylperfluorooctanesulfonamidoacetic acid	2991-50-6	--	--	--	< 0.372	1.39	< 0.375	< 0.376	< 0.369	1.91	< 0.371	< 0.365
NMeFOSE	N-Methyl perfluorooctane sulfonamidoethanol	24448-09-7	--	--	--	< 0.607	< 0.612	< 0.611	< 0.614	< 0.602	< 0.607	< 0.605	< 0.596
NEtFOSE	N-Ethyl perfluorooctane sulfonamidoethanol	1691-99-2	--	--	--	< 0.72	< 0.726	< 0.726	< 0.729	< 0.715	< 0.721	< 0.719	< 0.708
Replacement Chemicals (ng/g)													
HFPO-DA	Hexafluoropropylene oxide dimer acid	13252-13-6	--	--	--	< 0.849	< 0.857	< 0.856	< 0.86	< 0.843	< 0.85	< 0.847	< 0.835
DONA	4,8-dioxa-3H-perfluorononanoic acid	919005-14-4	--	--	--	< 0.247	< 0.249	< 0.249	< 0.25	< 0.245	< 0.247	< 0.246	< 0.242
9Cl-PF3ONS	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	756426-58-1	--	--	--	< 0.321	< 0.324	< 0.323	< 0.325	< 0.319	< 0.321	< 0.32	< 0.315
11Cl-PF3OUdS	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	763051-92-9	--	--	--	< 0.52	< 0.525	< 0.525	< 0.527	< 0.517	< 0.521	< 0.519	< 0.512

Note:
ng/g - nanograms per grams (ppb)
J - Estimated concentration
ft bgs - feet below ground surface
Non-detects reported as < LOD
-- No NR 720 standards established

Table 1
Soil Analytical Results - PFAS
Fincantari Marinette Marina
Marinette, Wisconsin

		Location:	NR 720 Residual Contaminant Levels			MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16
		Sample Date:				6/13/2022	6/14/2022	6/14/2022	6/15/2022	6/13/2022	6/14/2022	6/14/2022	6/14/2022
		Sample Depth (ft bgs)	Non-Industrial Direct Contact	Industrial Direct Contact	Soil to Groundwater Pathway	1.5-3.5	2.0-4.0	1.5-3.5	1.5-3.5	1.5-2.5	1.5-3.5	1.5-3.5	1.5-3.5
Acronym	Analyte	CAS No.											
Carboxylic Acids (ng/g)													
PFBA	Perfluorobutanoic acid	375-22-4	--	--	--	< 0.446	< 0.459	< 0.455	< 0.451	< 0.457	< 0.444	< 0.456	0.769
PFPeA	Perfluoropentanoic acid	2706-90-3	--	--	--	< 0.357	< 0.368	< 0.364	0.367 J	< 0.366	< 0.355	< 0.365	7.94
PFHxA	Perfluorohexanoic acid	307-24-4	--	--	--	< 0.31	< 0.32	< 0.317	0.317 J	< 0.318	< 0.309	< 0.317	4.43
PFHpA	Perfluoroheptanoic acid	375-85-9	--	--	--	< 0.471	< 0.485	< 0.481	< 0.477	< 0.483	< 0.469	< 0.482	0.501
PFOA	Perfluorooctanoic acid	335-67-1	1,260	16,400	--	0.575	< 0.27	< 0.267	1.09	< 0.268	< 0.261	0.372 J	< 0.262
PFNA	Perfluorononaoic acid	375-95-1	--	--	--	< 0.36	< 0.371	< 0.368	0.502	< 0.37	< 0.359	< 0.369	< 0.361
PFDA	Perfluorodecanoic acid	335-76-2	--	--	--	< 0.428	< 0.441	< 0.438	< 0.434	< 0.439	< 0.426	< 0.438	< 0.429
PFUnA	Perfluoroundecanoic acid	2058-94-8	--	--	--	< 0.49	< 0.505	< 0.501	< 0.497	< 0.503	< 0.488	< 0.502	< 0.491
PFDoA	Perfluorododecanoic acid	307-55-1	--	--	--	< 0.442	< 0.455	< 0.452	< 0.447	< 0.453	< 0.44	< 0.452	< 0.442
PFTrDA	Perfluorotridecanoic acid	72629-94-8	--	--	--	< 0.393	< 0.405	< 0.402	< 0.398	< 0.403	< 0.392	< 0.403	< 0.394
PFTeDA	Perfluorotetradecanoic acid	376-06-7	--	--	--	< 0.415	< 0.427	< 0.424	< 0.42	< 0.425	< 0.413	< 0.424	< 0.415
Sulfonic Acids (ng/g)													
PFBS	Perfluorobutanesulfonic acid	375-73-5	1,260,000	16,400,000	--	< 0.296	< 0.306	< 0.303	< 0.3	< 0.304	< 0.295	< 0.303	< 0.297
PFPeS	Perfluoropentane Sulfonic Acid	2706-91-4	--	--	--	< 0.291	< 0.3	< 0.297	< 0.294	< 0.298	< 0.289	< 0.297	< 0.291
PFHxS	Perfluorohexanesulfonoic acid	355-46-4		--	--	0.837	< 0.308	< 0.305	1.66 J	0.762	0.309 J	< 0.305	< 0.299
PFHpS	Perfluoroheptanesulfonic acid	375-92-8	--	--	--	< 0.5	< 0.515	< 0.511	< 0.506	< 0.513	< 0.498	< 0.512	< 0.5
PFOS	Perfluorooctanesulfonic acid	1763-23-1	1,260	16,400	--	2.66	< 0.647	< 0.642	9.61	2.42	0.866 J	1.73	< 0.628
PFNS	Perfluorononanesulfonic acid	68259-12-1	--	--	--	< 0.802	< 0.827	< 0.82	< 0.812	< 0.823	< 0.799	< 0.821	< 0.803
PFDS	Perfluorodecanesulfonic acid	335-77-3	--	--	--	< 0.234	< 0.242	< 0.24	< 0.237	< 0.419	< 0.234	< 0.24	< 0.235
PFDoS	Perfluorododecanesulfonic acid	79780-39-5	--	--	--	< 0.409	< 0.421	< 0.418	< 0.414	< 0.24	< 0.407	< 0.418	< 0.409
4:2 FTS	4:2 Fluorotelomer Sulfonic Acid	757124-72-4	--	--	--	< 0.624	< 0.643	< 0.638	< 0.632	< 0.64	< 0.621	< 0.638	< 0.624
6:2 FTS	6:2 Fluorotelomer sulfonic acid	27619-97-2	--	--	--	< 0.502	< 0.517	< 0.513	0.583 J	< 0.515	< 0.5	1.25	< 0.502
8:2 FTS	8:2 Fluorotelomer sulfonic acid	39108-34-4	--	--	--	< 0.57	< 0.587	< 0.582	< 0.577	< 0.584	< 0.567	< 0.583	< 0.57
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols (ng/g)													
PFOSA	Perfluorooctane sulfonamide	754-91-6	--	--	--	< 0.554	< 0.571	< 0.566	< 0.561	< 0.568	< 0.552	< 0.567	< 0.555
NMeFOSA	N-Methyl perfluorooctane sulfonamide	31506-32-8	--	--	--	< 1.3	< 1.34	< 1.32	< 1.31	< 1.33	< 1.29	< 1.33	< 1.3
NEtFOSA	N-Ethyl perfluorooctane sulfonamide	4151-50-2	--	--	--	< 0.752	< 0.775	< 0.768	< 0.761	< 0.771	< 0.749	< 0.769	< 0.752
MeFOSAA	N-Methylperfluorooctanesulfonamidoacetic acid	2355-31-9	--	--	--	< 0.391	< 0.403	< 0.4	< 0.396	< 0.401	< 0.39	< 0.401	< 0.392
EtFOSAA	N-Ethylperfluorooctanesulfonamidoacetic acid	2991-50-6	--	--	--	< 0.368	< 0.379	< 0.376	< 0.373	< 0.378	< 0.367	< 0.377	< 0.368
NMeFOSE	N-Methyl perfluorooctane sulfonamidoethanol	24448-09-7	--	--	--	< 0.601	< 0.619	< 0.614	< 0.608	< 0.616	< 0.598	< 0.615	< 0.601
NEtFOSE	N-Ethyl perfluorooctane sulfonamidoethanol	1691-99-2	--	--	--	< 0.713	< 0.735	< 0.729	< 0.722	< 0.731	< 0.71	< 0.73	< 0.714
Replacement Chemicals (ng/g)													
HFPO-DA	Hexafluoropropylene oxide dimer acid	13252-13-6	--	--	--	< 0.841	< 0.867	< 0.859	< 0.852	< 0.863	< 0.838	< 0.861	< 0.842
DONA	4,8-dioxa-3H-perfluorononanoic acid	919005-14-4	--	--	--	< 0.244	< 0.252	< 0.25	< 0.247	< 0.25	< 0.243	< 0.25	< 0.244
9Cl-PF3ONS	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	756426-58-1	--	--	--	< 0.318	< 0.328	< 0.325	< 0.322	< 0.326	< 0.316	< 0.325	< 0.318
11Cl-PF3OUdS	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	763051-92-9	--	--	--	< 0.515	< 0.531	< 0.527	< 0.522	< 0.529	< 0.513	< 0.527	< 0.516

Note:
ng/g - nanograms per grams (ppb)
J - Estimated concentration
ft bgs - feet below ground surface
Non-detects reported as < LOD
-- No NR 720 standards established

Table 2
Groundwater Results - PFAS
Fincantari Marinette Marina
Marinette, Wisconsin

		Field Sample ID:	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9
		Sample Date:									
Acronym	Analyte	CAS No.	7/12/2022	7/12/2022	7/12/2022	7/13/2022	7/12/2022	7/12/2022	7/13/2022	7/13/2022	7/12/2022
Carboxylic Acids (ng/L)											
PFBA	Perfluorobutanoic acid	375-22-4	34.7	67.1	95.2	77.2	115	92.8	102	79.9	81.6
PFPeA	Perfluoropentanoic acid	2706-90-3	113	207	393	308	482	334	396	330	296
PFHxA	Perfluorohexanoic acid	307-24-4	137	143	267	202	325	252	276	207	209
PFHpA	Perfluoroheptanoic acid	375-85-9	127	83	138	121	128	131	161	80.1	101
PFOA	Perfluorooctanoic acid	335-67-1	30.1	55.5	247	90.5	85.6	88.9	288	294	80.8
PFNA	Perfluorononanoic acid	375-95-1	< 0.712	7.27	113	21.9	1.83 J	11.2	4.96	5.14	1.34 J
PFDA	Perfluorodecanoic acid	335-76-2	< 0.891	< 0.943	7.25	1.53 J	< 0.922	< 0.894	< 0.897	1.36 J	< 0.900
PFUNA	Perfluoroundecanoic acid	2058-94-8	< 0.712	< 0.754	< 0.759	< 0.740	< 0.736	< 0.714	< 0.717	2.36	< 0.719
PFDOA	Perfluorododecanoic acid	307-55-1	< 0.920	< 0.973	< 0.981	< 0.955	< 0.951	< 0.922	< 0.926	< 0.937	< 0.928
PFTrDA	Perfluorotridecanoic acid	72629-94-8	< 0.618	< 0.654	< 0.659	< 0.642	< 0.639	< 0.619	< 0.622	< 0.629	< 0.624
PFTeDA	Perfluorotetradecanoic acid	376-06-7	< 0.769	< 0.814	< 0.820	< 0.799	< 0.795	< 0.771	< 0.774	< 0.783	< 0.776
Sulfonic Acids (ng/L)											
PFBS	Perfluorobutanesulfonic acid	375-73-5	6.63	9.51	10.8	3.92	13	10.3	16.7	8.64	11.6
PFPeS	Perfluoropentane sulfonic acid	2706-91-4	1.24 J	3.31	9.13	1.89 J	10.9	5.91	17.3	9.84	11.1
PFHxS	Perfluorohexanesulfonoic acid	355-46-4	12.6	32.4	107	78.4	58.7	44.1	145	117	69.5
PFHpS	Perfluoroheptanesulfonic acid	375-92-8	< 0.561	< 0.594	2.51	0.62 J	< 0.580	< 0.563	1.46 J	2.91	< 0.566
PFOS	Perfluorooctanesulfonic acid	1763-23-1	3.09	16.5	140	43.7	5.88	12.9	35.1	96.6	5.5
PFNS	Perfluorononane sulfonic acid	68259-12-1	< 1.09	< 1.15	< 1.16	< 1.13	< 1.13	< 1.09	< 1.10	< 1.11	< 1.10
PFDoS	Perfluorododecanesulfonic acid	79780-39-5	< 1.33	< 1.41	< 1.42	< 1.39	< 1.38	< 1.34	< 1.34	< 1.36	< 1.35
PFDS	Perfluorodecanesulfonic acid	335-77-3	< 0.717	< 0.759	< 0.764	< 0.745	< 0.741	< 0.719	< 0.722	< 0.730	< 0.724
4:2 FTS	4:2 Fluorotelomer Sulfonic acid	757124-72-4	< 0.896	< 0.948	< 0.955	2.89	< 0.926	1.15 J	0.963 J	4.73	< 0.904
6:2 FTS	6:2 Fluorotelomer sulfonic acid	27619-97-2	< 1.06	37.5	184	315	71.9	74.7	162	113	60.9
8:2 FTS	8:2 Fluorotelomer sulfonic acid	39108-34-4	< 1.07	< 1.13	10.1	2.9	< 1.11	< 1.07	< 1.08	< 1.09	< 1.08
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols (ng/L)											
PFOSA	Perfluorooctane sulfonamide	757124-72-4	12	37.6	28.9	27.9	10.4	26.6	12.1	13.7	5.71
MeFOSA	N-Methyl perfluorooctane sulfonamide	27619-97-2	< 2.11	< 2.24	< 2.25	< 2.19 UR	< 2.18	< 2.12	< 2.13	< 2.15	< 2.13
EtFOSA	N-Ethyl perfluorooctane sulfonamide	39108-34-4	< 2.19	< 2.32	< 2.34	< 2.28	< 2.27	< 2.20	< 2.21	< 2.23	< 2.21
MeFOSAA	N-Methylperfluorooctanesulfonamidoacetic acid	2355-31-9	< 0.896	< 0.948	< 0.955	< 0.931	< 0.926	< 0.898	< 0.902	< 0.913	< 0.904
EtFOSAA	N-Ethylperfluorooctanesulfonamidoacetic acid	2991-50-6	< 0.981	1.9 J	< 1.05	1.57 J	< 1.01	< 0.983	1.37 J	< 0.999	< 0.990
MeFOSE	N-Methyl perfluorooctane sulfonamidoethanol	24448-09-7	< 1.89	< 2.00	< 2.01	< 1.96	< 1.95	< 1.89	< 1.90	< 1.92	< 1.90
EtFOSE	N-Ethyl perfluorooctane sulfonamidoethanol	1691-99-2	< 1.48	< 1.57	< 1.58	< 1.54 UR	< 1.53	< 1.48	< 1.49	< 1.51	< 1.49
Replacement Chemicals (ng/L)											
HFPO-DA	Hexafluoropropylene oxide dimer acid	13252-13-6	< 1.48	< 1.56	< 1.57	< 1.53	< 1.53	< 1.48	< 1.49	< 1.50	< 1.49
DONA	4,8-dioxa-3H-perfluorononanoic acid	919005-14-4	< 0.604	< 0.639	< 0.644	< 0.627	< 0.624	< 0.605	< 0.608	< 0.615	< 0.609
9Cl-PF3ONS	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	756426-58-1	< 1.00	< 1.06	< 1.07	< 1.04	< 1.04	< 1.01	< 1.01	< 1.02	< 1.01

Notes:
ng/L - nanograms per liter
J - Estimated concentration
Q - The ion transition ratio is outside of the acceptance criteria
R - Rejected due to a severe quality control exceedance
U - originally reported as a nondetect
Non-detects reported as less than the method detection limit (MDL)

Table 2
Groundwater Results - PFAS
Fincantari Marinette Marina
Marinette, Wisconsin

Acronym	Analyte	CAS No.	Field Sample ID: / Sample Date: MW-10 7/12/2022	MW-11 7/13/2022	MW-12 7/13/2022	MW-13 7/12/2022	MW-14 7/12/2022	MW-15 7/13/2022	MW-16 7/13/2022
Carboxylic Acids (ng/L)									
PFBA	Perfluorobutanoic acid	375-22-4	59.9	99.2	72.6	76.7	59	65.2	94.1
PFPeA	Perfluoropentanoic acid	2706-90-3	204	407	215	232	147	208	276
PFHxA	Perfluorohexanoic acid	307-24-4	144	309	156	146	104	165	255
PFHpA	Perfluoroheptanoic acid	375-85-9	76.8	156	61.6	87.4	81.3	135	197
PFOA	Perfluorooctanoic acid	335-67-1	106	260	68.9	67.9	30.5	265	481
PFNA	Perfluorononanoic acid	375-95-1	3.1	3.96	< 0.732	4.82	2.54 Q	2.59	2.01
PFDA	Perfluorodecanoic acid	335-76-2	< 0.993	< 0.931	< 0.916	< 0.907	< 0.915	< 0.916	< 0.918
PFUNA	Perfluoroundecanoic acid	2058-94-8	< 0.793	< 0.744	< 0.732	< 0.725	< 0.731	< 0.732	< 0.733
PFDOA	Perfluorododecanoic acid	307-55-1	< 1.02	< 0.961	< 0.945	< 0.936	< 0.944	< 0.946	< 0.947
PFTrDA	Perfluorotridecanoic acid	72629-94-8	< 0.688	< 0.645	< 0.635	< 0.629	< 0.634	< 0.635	< 0.636
PFTeDA	Perfluorotetradecanoic acid	376-06-7	< 0.856	< 0.803	< 0.790	< 0.782	< 0.789	< 0.790	< 0.791
Sulfonic Acids (ng/L)									
PFBS	Perfluorobutanesulfonic acid	375-73-5	8.35	17.5	6.04	10	3.69	10.6	27
PFPeS	Perfluoropentane sulfonic acid	2706-91-4	4.38	17	1.54 J	6.08	< 0.794	23.6	1.6 J
PFHxS	Perfluorohexanesulfonoic acid	355-46-4	70.1	158	1.77 J	59.8	14.2	213	12.8
PFHpS	Perfluoroheptanesulfonic acid	375-92-8	0.657 J	2.46	< 0.577	< 0.571	< 0.576	3.86	3.06
PFOS	Perfluorooctanesulfonic acid	1763-23-1	21.3	70.9	1.92 J	16.3	7.5	36.1	86.8
PFNS	Perfluorononane sulfonic acid	68259-12-1	< 1.21	< 1.14	< 1.12	< 1.11	< 1.12	< 1.12	< 1.12
PFDoS	Perfluorododecanesulfonic acid	79780-39-5	< 1.49	< 1.39	< 1.37	< 1.36	< 1.37	< 1.37	< 1.37
PFDS	Perfluorodecanesulfonic acid	335-77-3	< 0.798	< 0.749	< 0.736	< 0.729	< 0.736	< 0.737	< 0.738
4:2 FTS	4:2 Fluorotelomer Sulfonic acid	757124-72-4	< 0.998	1.05 J	< 0.920	< 0.912	< 0.920	1.03 J	< 0.922
6:2 FTS	6:2 Fluorotelomer sulfonic acid	27619-97-2	110	96.2	5.07	132	7.62	170	8.55
8:2 FTS	8:2 Fluorotelomer sulfonic acid	39108-34-4	< 1.19	1.19 J	< 1.10	< 1.09	< 1.10	< 1.10	< 1.10
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols (ng/L)									
PFOSA	Perfluorooctane sulfonamide	757124-72-4	27.8	5.82	42.8 J	22.5	30.7	17	23.2
MeFOSA	N-Methyl perfluorooctane sulfonamide	27619-97-2	< 2.35	< 2.21	< 2.17	< 2.15	< 2.17	< 2.17	< 2.18
EtFOSA	N-Ethyl perfluorooctane sulfonamide	39108-34-4	< 2.44	< 2.29	< 2.25	< 2.23	< 2.25	< 2.25	< 2.26
MeFOSAA	N-Methylperfluorooctanesulfonamidoacetic acid	2355-31-9	< 0.998	< 0.936	< 0.920	< 0.912	< 0.920	< 0.921	< 0.922
EtFOSAA	N-Ethylperfluorooctanesulfonamidoacetic acid	2991-50-6	2.09 J	3.91	< 1.01	< 0.998	1.61 J	< 1.01	1.26 J
MeFOSE	N-Methyl perfluorooctane sulfonamidoethanol	24448-09-7	< 2.10	< 1.97	< 1.94	< 1.92	< 1.94	< 1.94	< 1.94
EtFOSE	N-Ethyl perfluorooctane sulfonamidoethanol	1691-99-2	< 1.65	< 1.55	< 1.52	< 1.51	< 1.52	< 1.52	< 1.52
Replacement Chemicals (ng/L)									
HFPO-DA	Hexafluoropropylene oxide dimer acid	13252-13-6	< 1.64	< 1.54	< 1.52	< 1.50	< 1.52	< 1.52	< 1.52
DONA	4,8-dioxa-3H-perfluorononanoic acid	919005-14-4	< 0.672	< 0.630	< 0.620	< 0.614	< 0.620	< 0.621	< 0.621
9Cl-PF3ONS	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	756426-58-1	< 1.12	< 1.05	< 1.03	< 1.02	< 1.03	< 1.03	< 1.03

Notes:
ng/L - nanograms per liter
J - Estimated concentration
Q - The ion transition ratio is outside of the acceptance criteria
R - Rejected due to a severe quality control exceedance
U - originally reported as a nondetect
Non-detects reported as less than the method detection limit (MDL)

Table 3
Soil Results - VOCs, PAHs, PCBs, and Metals
Fincantari Marinette Marine
Marinette, Wisconsin

Location	NR 720 Residual Contaminant Levels				MW-01	MW-02	MW-03	MW-04	MW-05	MW-06	MW-07	MW-08
Sample Date	Non-Industrial Direct Contact	Industrial Direct Contact	Soil to Groundwater Pathway	Background Threshold Value	6/13/2022	6/14/2022	6/14/2022	6/15/2022	6/13/2022	6/14/2022	6/14/2022	6/15/2022
Sample Interval					1.5-3.5 ft	1.5-3.5 ft	1.5-3.5 ft	1.5-3.5 ft	1-3 ft	1.5-3.5 ft	1.5-3.5 ft	1.5-3.5 ft
VOCs (mg/kg)												
Benzene	1.6	7.1	0.0052	--	<0.0128	**0.0206 J** C	<0.0134	<0.0152	<0.0192	**0.0226 J** C	<0.0130	<0.0148
Bromobenzene	342	679	--	--	<0.0210	<0.0220	<0.0220	<0.0250	<0.0314	<0.0236	<0.0213	<0.0242
Bromochloromethane	216	906	--	--	<0.0148	<0.0155	<0.0155	<0.0175	<0.0221	<0.0166	<0.0150	<0.0170
Bromodichloromethane	0.42	1.8	0.0004	--	<0.0128	<0.0134	<0.0134	<0.0152	<0.0192	<0.0144	<0.0130	<0.0148
Bromoform	25.4	113	0.0024	--	<0.237	<0.248	<0.249	<0.282	<0.355	<0.266	<0.240	<0.273
Bromomethane	9.6	43	0.005	--	<0.0755	<0.0792	<0.0792	<0.0897	<0.113	<0.0849	<0.0765	<0.0871
n-Butylbenzene	108	108	--	--	<0.0247	<0.0259	<0.0259	<0.0293	<0.0369	0.118	<0.0250	<0.0285
sec-Butylbenzene	145	145	--	--	<0.0131	<0.0138	<0.0138	<0.0156	<0.0197	0.0326 J	<0.0133	<0.0152
tert-Butylbenzene	183	183	--	--	<0.0169	<0.0177	<0.0177	<0.0201	<0.0253	<0.0190	<0.0171	<0.0195
Carbon tetrachloride	0.92	4	0.0038	--	<0.0119	<0.0124	<0.0124	<0.0141	<0.0177	<0.0133	<0.0120	<0.0137
Chlorobenzene	370	761	0.14	--	<0.0065	<0.0068	<0.0068	<0.0077	<0.0097	<0.0073	<0.0065	<0.0074
Chloroethane	2120	2120	0.23	--	<0.0227	<0.0238	<0.0238	<0.0270	<0.0340	<0.0255	<0.0230	<0.0262
Chloroform	0.45	2	0.0034	--	<0.0386	<0.0404	<0.0404	<0.0458	<0.0577	<0.0433	<0.0391	<0.0445
Chloromethane	159	669	0.016	--	<0.0205	<0.0215	<0.0215	<0.0243	<0.0306	<0.0230	<0.0207	<0.0236
2-Chlorotoluene	907	907	--	--	<0.0175	<0.0183	<0.0183	<0.0207	<0.0261	<0.0196	<0.0177	<0.0201
4-Chlorotoluene	253	253	--	--	<0.0205	<0.0215	<0.0215	<0.0243	<0.0306	<0.0230	<0.0207	<0.0236
1,2-Dibromo-3-chloropropane	0.008	0.092	0.0002	--	<0.0418	<0.0438	<0.0438	<0.0497	<0.0626	<0.0470	<0.0423	<0.0482
Dibromochloromethane	8.3	38.9	0.032	--	<0.184	<0.193	<0.193	<0.219	<0.276	<0.207	<0.187	<0.212
1,2-Dibromoethane (EDB)	0.05	--	0.000028	--	<0.0148	<0.0155	<0.0155	<0.0175	<0.0221	<0.0166	<0.0150	<0.0170
Dibromomethane	34	143	--	--	<0.0159	<0.0167	<0.0167	<0.0189	<0.0239	<0.0179	<0.0162	<0.0184
1,2-Dichlorobenzene	376	376	1.2	--	<0.0167	<0.0175	<0.0175	<0.0198	<0.0250	<0.0188	<0.0169	<0.0193
1,3-Dichlorobenzene	297	297	1.2	--	<0.0148	<0.0155	<0.0155	<0.0175	<0.0221	<0.0166	<0.0150	<0.0170
1,4-Dichlorobenzene	3.7	--	0.14	--	<0.0148	0.0375 J	<0.0155	<0.0175	<0.0221	**0.356** C	<0.0150	<0.0170
Dichlorodifluoromethane	126	530	3.1	--	<0.0232	<0.0243	<0.0243	<0.0275	<0.0347	<0.0260	<0.0235	<0.0267
1,1-Dichloroethane	5.1	22.2	0.48	--	<0.0138	<0.0145	<0.0145	<0.0164	<0.0206	<0.0155	<0.0140	<0.0159
1,2-Dichloroethane	0.65	2.9	0.0028	--	<0.0124	<0.0130	<0.0130	<0.0147	<0.0185	<0.0139	<0.0126	<0.0143
1,1-Dichloroethene	320	--	0.005	--	<0.0179	<0.0187	<0.0188	<0.0213	<0.0268	<0.0201	<0.0181	<0.0206
cis-1,2-Dichloroethene	156	2340	0.041	--	<0.0115	<0.0121	<0.0121	<0.0137	<0.0173	0.0227 J	<0.0117	<0.0133
trans-1,2-Dichloroethene	1560	976	0.063	--	<0.0116	<0.0122	<0.0122	<0.0138	<0.0174	<0.0131	<0.0118	<0.0134
1,2-Dichloropropane	3.4	15	0.0033	--	<0.0128	<0.0134	<0.0134	<0.0152	<0.0192	<0.0144	<0.0130	<0.0148
1,3-Dichloropropane	1490	1490	--	--	<0.0117	<0.0123	<0.0123	<0.0140	<0.0176	<0.0132	<0.0119	<0.0135
2,2-Dichloropropane	527	191	--	--	<0.0145	<0.0152	<0.0153	<0.0173	<0.0218	<0.0163	<0.0147	<0.0168
1,1-Dichloropropene	--	--	--	--	<0.0175	<0.0183	<0.0183	<0.0207	<0.0261	<0.0196	<0.0177	<0.0201
cis-1,3-Dichloropropene	1220	1210	--	--	<0.0356	<0.0373	<0.0373	<0.0422	<0.0532	<0.0399	<0.0360	<0.0410
trans-1,3-Dichloropropene	1570	1570	--	--	<0.154	<0.161	<0.162	<0.183	<0.231	<0.173	<0.156	<0.178
Diisopropyl ether	2260	2260	--	--	<0.0134	<0.0140	<0.0140	<0.0159	<0.0200	<0.0150	<0.0135	<0.0154
Ethylbenzene	8	35.4	1.6	--	<0.0128	<0.0134	<0.0134	<0.0152	<0.0192	0.0382 J	<0.0130	<0.0148
Hexachloro-1,3-butadiene	1.6	7.2	--	--	<0.107	<0.112	<0.112	<0.127	<0.160	<0.120	<0.108	<0.124
Isopropylbenzene (Cumene)	268	268	--	--	<0.0145	<0.0152	<0.0153	<0.0173	<0.0218	<0.0163	<0.0147	<0.0168
p-Isopropyltoluene	162	162	--	--	<0.0164	<0.0172	<0.0172	<0.0195	<0.0245	<0.0184	0.218	<0.0189
Methylene Chloride	61.8	1150	0.0026	--	<0.0150	<0.0157	<0.0157	<0.0178	<0.0224	<0.0168	<0.0152	<0.0173
Methyl-tert-butyl ether	63.8	282	0.027	--	<0.0158	<0.0166	<0.0166	<0.0188	<0.0237	<0.0178	<0.0160	<0.0183
Naphthalene	5.5	24.1	0.66	--	<0.0168	<0.0176	0.105 J	0.0410 J	<0.0252	0.112 J	0.0401 J	0.251 J
n-Propylbenzene	264	264	--	--	<0.0129	<0.0135	<0.0136	<0.0154	<0.0193	0.0334 J	<0.0131	<0.0149
Styrene	867	867	0.22	--	<0.0138	<0.0145	<0.0145	<0.0164	<0.0206	<0.0155	<0.0140	<0.0159
1,1,1,2-Tetrachloroethane	2.8	12.3	0.053	--	<0.0129	<0.0135	<0.0136	<0.0154	<0.0193	<0.0145	<0.0131	<0.0149
1,1,2,2-Tetrachloroethane	0.81	3.6	0.0002	--	<0.0195	<0.0204	<0.0204	<0.0232	<0.0292	<0.0219	<0.0198	<0.0225
Tetrachloroethene	33	153	0.0046	--	<0.0209	**0.0578** C	<0.0219	<0.0248	<0.0313	**0.124** C	<0.0212	<0.0241
Toluene	818	818	1.1	--	<0.0136	0.129	0.0270 J	<0.0161	<0.0203	0.0874	0.0448 J	<0.0157
1,2,3-Trichlorobenzene	62.6	934	--	--	<0.0600	<0.0629	<0.0629	<0.0713	<0.0898	<0.0674	<0.0608	<0.0692
1,2,4-Trichlorobenzene	24	113	0.41	--	<0.0444	<0.0465	<0.0465	<0.0527	<0.0664	<0.0499	<0.0450	<0.0512
1,1,1-Trichloroethane	640	640	0.14	--	<0.0138	<0.0145	<0.0145	<0.0164	<0.0206	<0.0155	<0.0140	<0.0159
1,1,2-Trichloroethane	1.6	7	0.0032	--	<0.0196	<0.0206	<0.0206	<0.0233	<0.0293	<0.0220	<0.0199	<0.0226
Trichloroethene	1.3	8.8	0.0036	--	<0.0201	<0.0211	<0.0211	<0.0239	<0.0302	<0.0226	<0.0204	<0.0232
Trichlorofluoromethane	1120	1230	4.5	--	<0.0156	<0.0164	<0.0164	<0.0186	<0.0234	<0.0176	<0.0158	<0.0180
1,2,3-Trichloropropane	0.005	0.11	0.052	--	<0.0262	<0.0274	<0.0275	<0.0311	<0.0392	<0.0294	<0.0265	<0.0302
1,2,4-Trimethylbenzene	219	219	1.4	--	<0.0161	0.0315 J	0.0196 J	<0.0191	<0.0240	0.0597 J	0.0227 J	<0.0185
1,3,5-Trimethylbenzene	182	182	1.4	--	<0.0173	<0.0182	<0.0182	<0.0206	<0.0260	<0.0195	<0.0176	<0.0200
Vinyl chloride	0.067	2	0.00014	--	<0.0109	<0.0114	<0.0114	<0.0129	<0.0163	<0.0122	<0.0110	<0.0126
Xylene (Total)	260	258	4	--	<0.0389	<0.0408	<0.0408	<0.0462	<0.0582	0.117 J	0.0642 J	<0.0449
m,p-Xylenes	778	778	--	--	<0.0227	0.0277 J	0.0403 J	<0.0270	<0.0340	0.0964 J	0.0454 J	<0.0262
o-Xylene	434	434	--	--	<0.0162	<0.0169	<0.0169	<0.0192	<0.0242	0.0208 J	0.0188 J	<0.0186
PAHs (mg/kg)												
Acenaphthene	3590	45200	--	--	<0.0022	0.0080 J	0.0122 J	0.0626 J	<0.0028	0.126	0.0063 J	0.0063 J
Acenaphthylene	--	--	--	--	<0.0022	0.0180	0.0328	0.0504 J	<0.0027	0.0266 J	0.0592	0.0129 J
Anthracene	17900	100000	197	--	<0.0022	0.0217	0.0435	0.153	<0.0027	0.0321 J	0.0805	0.0165 J
Benzo(a)anthracene	1.1	20.8	--	--	<0.0022	0.0835	0.160	0.423	<0.0028	0.0321 J	0.250	0.0776
Benzo(a)pyrene	0.1	2.1	0.47	--	<0.0020	0.107	**0.222** A	**0.411** A	<0.0025	0.0683	**0.237** A	0.0951
Benzo(b)fluoranthene	1.2	21.1	0.48	--	<0.0024	0.151	0.295	**0.602** C	<0.0030	0.0389	0.319	0.150
Benzo(g,h,i)perylene	--	--	--	--	<0.0030	0.0951	0.113	0.117	<0.0038	0.0654	0.152	0.0337
Benzo(k)fluoranthene	1.2	211	--	--	<0.0022	0.0578	0.118	0.247	<0.0028	0.0839	0.149	0.0604
Chrysene	11.5	2110	0.14	--	<0.0033	0.116	**0.194** C	**0.408** C	<0.0041	**0.248** C	**0.289** C	0.0997
Dibenzo(a,h)anthracene	115	2.1	--	--	<0.0024	0.0195	0.0372	0.0408 J	<0.0030	0.0163 J	0.0406	0.0111 J
Fluoranthene	2390	30100	88.9	--	<0.0021	0.209	0.312	0.816	0.0034 J	0.0983	0.593	0.156
Fluorene	2390	30100	14.8	--	<0.0021	0.0098 J	0.0141 J	0.0859 J	<0.0026	0.0884	0.0134 J	0.0065 J
Indeno(1,2,3-cd)pyrene	1.2	21.1	--	--	<0.0036	0.0679	0.0968	0.114	<0.0045	0.0393	0.131	0.0300
1-Methylnaphthalene	17.6	72.7	--	--	<0.0025	0.0091 J	0.0314	0.0923 J	<0.0032	0.527	0.0167 J	0.0179 J
2-Methylnaphthalene	239	3010	--	--	<0.0025	0.0128 J	0.0506	0.135	<0.0032	0.230	0.0243 J	0.0274
Naphthalene	5.5	24.1	0.66	--	<0.0017	0.0125 J	0.0482	0.113	<0.0021	0.263	0.0469	0.0201
Phenanthrene	--	--	--	--	<0.0020	0.106	0.149	0.564	0.0026 J	0.165	0.171	0.0661
Pyrene	1790	22600	54.5	--	<0.0025	0.164	0.298	0.744	0.0035 J	0.176	0.438	0.149
PCBs (mg/kg)												
PCB-1016 (Aroclor 1016)	4.1	21.2	--	--	<0.0158	<0.0162	<0.0162	<0.0173	<0.0198	<0.0168	<0.0159	<0.0171
PCB-1221 (Aroclor 1221)	0.21	0.59	--	--	<0.0158	<0.0162	<0.0162	<0.0173	<0.0198	<0.0168	<0.0159	<0.0171
PCB-1232 (Aroclor 1232)	0.19	0.59	--	--	<0.0158	<0.0162	<0.0162	<0.0173	<0.0198	<0.0168	<0.0159	<0.0171
PCB-1242 (Aroclor 1242)	0.24	0.74	--	--	<0.0158	<0.0162	<0.0162	<0.0173	<0.0198	0.188	<0.0159	<0.0171
PCB-1248 (Aroclor 1248)	0.24	0.74	--	--	<0.0158	<0.0162	<0.0162	0.0201 J	<0.0198	<0.0168	<0.0159	<0.0171
PCB-1254 (Aroclor 1254)	0.24	0.74	--	--	<0.0158	<0.0162	0.0306 J	0.137	<0.0198	0.143	<0.0159	0.0181 J
PCB-1260 (Aroclor 1260)	0.24	0.74	--	--	<0.0158	<0.0162	<0.0162	0.214	<0.0198	0.0439 J	<0.0159	0.0172 J
PCB, Total	0.23	0.74	0.0094	--	<0.0158	<0.0162	**0.0306 J** C	**0.371** AC	<0.0198	**0.374** AC	<0.0159	**0.0353 J** C
Metals (mg/kg)												
Arsenic	0.677	3	0.584	8	**1.5 J** ACD	**2.6 J** ACD	**6.8** ABCD	**2.3 J** ACD	<1.9	**19.3** ABC	**2.9** ACD	**3.2** ABCD
Barium	15300	100000	164.8	364	10.3	35.3	21.1	46.0	9.6	81.6	29.1	37.4
Cadmium	71.1	985	0.752	1	<0.13	0.23 J	0.36 J	0.37 J	<0.17	**2.5** C	0.21 J	0.40 J
Chromium	--	--	360000	44	4.0	9.6	9.4	11.9	4.5	32.4	10.8	22.3
Lead	400	800	27	52	2.2	17.9	23.5	**30.0** C	6.5	**132** C	9.8	**27.9** C
Selenium	391	5840	0.52	--	<1.2	<1.4	<1.4	<1.4	<1.7	<1.3	<1.3	<1.4
Silver	391	5840	0.8491	--	<0.29	<0.33	<0.32	0.46 J	<0.39	**1.4** C	<0.31	<0.34
Mercury	3.13	3.13	0.208	--	<0.0097	0.016 J	0.021 J	0.14	<0.012	0.096	0.016 J	0.056

Notes:
PAHs = Polynuclear Aromatic Hydrocarbons
VOCs = Volatile Organic Compounds
ug/kg = Micrograms per kilogram.
mg/kg = Micrograms per kilogram.
J = Estimated value (+/- indicate bias).
U = Result qualified nondetect due to laboratory contamination.
Bold Results indicate an exceedance of an NR720 RCL
A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.
B = Parameter exceeds Generic RCL for Industrial Direct Contact (none).
C = Parameter exceeds Generic RCL for Groundwater Pathway.
D = Exceedance was observed but analytical result is below background threshold value (BTV)
-- = No generic RCL established.
Generic RCLs Dec 2018 per WDNR PUB-RR-890.

Table 3
Soil Results - VOCs, PAHs, PCBs, and Metals
Fincantari Marinette Marine
Marinette, Wisconsin

Location	NR 720 Residual Contaminant Level			MW-09	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16
Sample Date	Non-Industrial Direct Contact	Industrial Direct Contact	Soil to Groundwater Pathway	6/13/2022	6/14/2022	6/14/2022	6/15/2022	6/13/2022	6/14/2022	6/14/2022	6/14/2022
Sample Interval				1.5-3.5 ft	2-4 ft	1.5-3.5 ft	1.5-3.5 ft	1.5-2.5 ft	1.5-3.5 ft	1.5-3.5 ft	1.5-3.5 ft
VOCs (mg/kg)											
Benzene	1.6	7.1	0.0052	<0.0167	<0.0146	<0.0148	<0.0136	<0.0141	<0.0161	<0.0144	<0.0151
Bromobenzene	342	679	--	<0.0274	<0.0239	<0.0243	<0.0224	<0.0231	<0.0264	<0.0236	<0.0248
Bromochloromethane	216	906	--	<0.0192	<0.0168	<0.0171	<0.0157	<0.0162	<0.0186	<0.0166	<0.0174
Bromodichloromethane	0.42	1.8	0.0004	<0.0167	<0.0146	<0.0148	<0.0136	<0.0141	<0.0161	<0.0144	<0.0151
Bromoform	25.4	113	0.0024	<0.309	<0.269	<0.274	<0.252	<0.260	<0.298	<0.266	<0.280
Bromomethane	9.6	43	0.005	<0.0984	<0.0858	<0.0874	<0.0804	<0.0829	<0.0949	<0.0848	<0.0891
n-Butylbenzene	108	108	--	<0.0322	<0.0280	<0.0285	<0.0263	<0.0271	<0.0310	<0.0277	<0.0291
sec-Butylbenzene	145	145	--	<0.0171	<0.0149	<0.0152	<0.0140	<0.0144	<0.0165	<0.0148	<0.0155
tert-Butylbenzene	183	183	--	<0.0220	<0.0192	<0.0196	<0.0180	<0.0186	<0.0213	<0.0190	<0.0200
Carbon tetrachloride	0.92	4	0.0038	<0.0154	<0.0135	<0.0137	<0.0126	<0.0130	<0.0149	<0.0133	<0.0140
Chlorobenzene	370	761	0.14	<0.0084	0.0109 J	<0.0075	<0.0069	<0.0071	<0.0081	<0.0072	<0.0076
Chloroethane	2120	2120	0.23	<0.0296	<0.0258	<0.0263	<0.0242	<0.0250	<0.0286	<0.0255	<0.0268
Chloroform	0.45	2	0.0034	<0.0503	<0.0438	<0.0446	<0.0410	<0.0423	<0.0485	<0.0433	<0.0455
Chloromethane	159	669	0.016	<0.0267	<0.0233	<0.0237	<0.0218	<0.0225	<0.0257	<0.0230	<0.0242
2-Chlorotoluene	907	907	--	<0.0228	<0.0198	<0.0202	<0.0186	<0.0192	<0.0219	<0.0196	<0.0206
4-Chlorotoluene	253	253	--	<0.0267	<0.0233	<0.0237	<0.0218	<0.0225	<0.0257	<0.0230	<0.0242
1,2-Dibromo-3-chloropropane	0.008	0.092	0.0002	<0.0545	<0.0475	<0.0484	<0.0445	<0.0459	<0.0525	<0.0469	<0.0493
Dibromochloromethane	8.3	38.9	0.032	<0.240	<0.209	<0.213	<0.196	<0.202	<0.231	<0.207	<0.217
1,2-Dibromoethane (EDB)	0.05	--	0.000028	<0.0192	<0.0168	<0.0171	<0.0157	<0.0162	<0.0186	<0.0166	<0.0174
Dibromomethane	34	143	--	<0.0208	<0.0181	<0.0184	<0.0170	<0.0175	<0.0200	<0.0179	<0.0188
1,2-Dichlorobenzene	376	376	1.2	<0.0218	<0.0190	<0.0193	<0.0178	<0.0183	<0.0210	<0.0187	<0.0197
1,3-Dichlorobenzene	297	297	1.2	<0.0192	<0.0168	<0.0171	<0.0157	<0.0162	<0.0186	<0.0166	<0.0174
1,4-Dichlorobenzene	3.7	--	0.14	<0.0192	<0.0168	<0.0171	<0.0157	<0.0162	<0.0186	<0.0166	<0.0174
Dichlorodifluoromethane	126	530	3.1	<0.0302	<0.0263	<0.0268	<0.0246	<0.0254	<0.0291	<0.0260	<0.0273
1,1-Dichloroethane	5.1	22.2	0.48	<0.0180	<0.0157	<0.0160	<0.0147	<0.0151	<0.0173	<0.0155	<0.0163
1,2-Dichloroethane	0.65	2.9	0.0028	<0.0162	<0.0141	<0.0143	<0.0132	<0.0136	<0.0156	<0.0139	<0.0146
1,1-Dichloroethene	320	--	0.005	<0.0233	<0.0203	<0.0207	<0.0190	<0.0196	<0.0225	<0.0201	<0.0211
cis-1,2-Dichloroethene	156	2340	0.041	<0.0150	0.0156 J	<0.0133	<0.0123	<0.0127	<0.0145	<0.0129	<0.0136
trans-1,2-Dichloroethene	1560	976	0.063	<0.0152	<0.0132	<0.0135	<0.0124	<0.0128	<0.0146	<0.0131	<0.0137
1,2-Dichloropropane	3.4	15	0.0033	<0.0167	<0.0146	<0.0148	<0.0136	<0.0141	<0.0161	<0.0144	<0.0151
1,3-Dichloropropane	1490	1490	--	<0.0153	<0.0133	<0.0136	<0.0125	<0.0129	<0.0148	<0.0132	<0.0139
2,2-Dichloropropane	527	191	--	<0.0190	<0.0165	<0.0168	<0.0155	<0.0160	<0.0183	<0.0163	<0.0172
1,1-Dichloropropene	--	--	--	<0.0228	<0.0198	<0.0202	<0.0186	<0.0192	<0.0219	<0.0196	<0.0206
cis-1,3-Dichloropropene	1220	1210	--	<0.0463	<0.0404	<0.0411	<0.0378	<0.0390	<0.0447	<0.0399	<0.0420
trans-1,3-Dichloropropene	1570	1570	--	<0.201	<0.175	<0.178	<0.164	<0.169	<0.194	<0.173	<0.182
Diisopropyl ether	2260	2260	--	<0.0174	<0.0152	<0.0155	<0.0142	<0.0147	<0.0168	<0.0150	<0.0158
Ethylbenzene	8	35.4	1.6	<0.0167	<0.0146	<0.0148	<0.0136	<0.0141	<0.0161	<0.0144	<0.0151
Hexachloro-1,3-butadiene	1.6	7.2	--	<0.140	<0.122	<0.124	<0.114	<0.118	<0.135	<0.120	<0.126
Isopropylbenzene (Cumene)	268	268	--	<0.0190	<0.0165	<0.0168	<0.0155	<0.0160	<0.0183	<0.0163	<0.0172
p-Isopropyltoluene	162	162	--	<0.0213	<0.0186	0.0235 J	<0.0174	<0.0180	<0.0206	<0.0184	<0.0193
Methylene Chloride	61.8	1150	0.0026	<0.0195	<0.0170	<0.0173	<0.0159	<0.0164	<0.0188	<0.0168	<0.0177
Methyl-tert-butyl ether	63.8	282	0.027	<0.0206	<0.0180	<0.0183	<0.0169	<0.0174	<0.0199	<0.0178	<0.0187
Naphthalene	5.5	24.1	0.66	0.0309 J	0.0460 J	0.0560 J	<0.0179	0.130 J	<0.0211	0.0278 J	0.0251 J
n-Propylbenzene	264	264	--	<0.0169	0.0148 J	<0.0150	<0.0138	<0.0142	<0.0162	<0.0145	<0.0153
Styrene	867	867	0.22	<0.0180	<0.0157	<0.0160	<0.0147	<0.0151	<0.0173	<0.0155	<0.0163
1,1,1,2-Tetrachloroethane	2.8	12.3	0.053	<0.0169	<0.0147	<0.0150	<0.0138	<0.0142	<0.0162	<0.0145	<0.0153
1,1,2,2-Tetrachloroethane	0.81	3.6	0.0002	<0.0254	<0.0222	<0.0226	<0.0207	<0.0214	<0.0245	<0.0219	<0.0230
Tetrachloroethene	33	153	0.0046	<0.0272	<0.0238	<0.0242	<0.0222	<0.0229	<0.0263	<0.0235	<0.0247
Toluene	818	818	1.1	0.0306 J	0.0436 J	0.0224 J	<0.0144	<0.0149	0.0172 J	<0.0152	<0.0160
1,2,3-Trichlorobenzene	62.6	934	--	<0.0782	<0.0682	<0.0694	<0.0638	<0.0659	<0.0754	<0.0674	<0.0708
1,2,4-Trichlorobenzene	24	113	0.41	<0.0579	<0.0505	<0.0513	<0.0472	<0.0487	<0.0558	<0.0498	<0.0524
1,1,1-Trichloroethane	640	640	0.14	<0.0180	<0.0157	<0.0160	<0.0147	<0.0151	<0.0173	<0.0155	<0.0163
1,1,2-Trichloroethane	1.6	7	0.0032	<0.0256	<0.0223	<0.0227	<0.0209	<0.0215	<0.0246	<0.0220	<0.0231
Trichloroethene	1.3	8.8	0.0036	<0.0263	**0.0247 J** C	<0.0233	<0.0214	<0.0221	<0.0253	<0.0226	<0.0238
Trichlorofluoromethane	1120	1230	4.5	<0.0204	<0.0178	<0.0181	<0.0166	<0.0172	<0.0196	<0.0175	<0.0184
1,2,3-Trichloropropane	0.005	0.11	0.052	<0.0341	<0.0298	<0.0303	<0.0279	<0.0287	<0.0329	<0.0294	<0.0309
1,2,4-Trimethylbenzene	219	219	1.4	<0.0209	0.0198 J	<0.0186	<0.0171	<0.0176	<0.0202	<0.0180	<0.0189
1,3,5-Trimethylbenzene	182	182	1.4	<0.0226	<0.0197	<0.0201	<0.0185	<0.0190	<0.0218	<0.0195	<0.0205
Vinyl chloride	0.067	2	0.00014	<0.0142	<0.0124	<0.0126	<0.0116	<0.0119	<0.0137	<0.0122	<0.0128
Xylene (Total)	260	258	4	<0.0507	<0.0442	<0.0450	<0.0414	<0.0427	<0.0489	<0.0437	<0.0459
m,p-Xylenes	778	778	--	<0.0296	0.0345 J	<0.0263	<0.0242	<0.0250	<0.0286	<0.0255	<0.0268
o-Xylene	434	434	--	<0.0211	<0.0184	<0.0187	<0.0172	<0.0177	<0.0203	<0.0181	<0.0191
PAHs (mg/kg)											
Acenaphthene	3590	45200	--	0.0197 J	0.0351 J	0.0162 J	0.0041 J	0.0501 J	0.0709 J	0.0131 J	0.0168 J
Acenaphthylene	--	--	--	0.0490	0.0855 J	0.0850	0.0059 J	0.0664 J	0.0543 J	0.0676	0.0607
Anthracene	17900	100000	197	0.114	0.148	0.0837	0.0089 J	0.202	0.233	0.0582	0.0787
Benzo(a)anthracene	1.1	20.8	--	0.275	0.470	0.403	0.0492	0.492	0.492	0.290	0.282
Benzo(a)pyrene	0.1	2.1	0.47	**0.289** A	**0.506** AC	**0.374** A	0.0607	**0.482** AC	**0.470** AC	**0.336** A	**0.269** A
Benzo(b)fluoranthene	1.2	21.1	0.48	0.393	**0.608** C	0.430	0.0941	**0.634** C	**0.627** C	0.412	0.385
Benzo(g,h,i)perylene	--	--	--	0.139	0.350	0.194	0.0296	0.224	0.298	0.215	0.130
Benzo(k)fluoranthene	1.2	211	--	0.168	0.243	0.157	0.0455	0.267	0.315	0.186	0.136
Chrysene	11.5	2110	0.14	**0.315** C	**0.527** C	**0.395** C	0.0613	**0.523** C	**0.648** C	**0.304** C	**0.291** C
Dibenzo(a,h)anthracene	115	2.1	--	0.0379	0.0967	0.0601	0.0075 J	0.0621 J	0.0911 J	0.0589	0.0396
Fluoranthene	2390	30100	88.9	0.583	0.941	0.573	0.0849	1.13	1.16	0.568	0.554
Fluorene	2390	30100	14.8	0.0345	0.0574 J	0.0328 J	0.0049 J	0.0764 J	0.133	0.0153 J	0.0334 J
Indeno(1,2,3-cd)pyrene	1.2	21.1	--	0.123	0.276	0.147	0.0186	0.198	0.245	0.184	0.116
1-Methylnaphthalene	17.6	72.7	--	0.0475	0.0947	0.0186 J	0.0208	0.0607 J	0.0601 J	0.0264 J	0.0695
2-Methylnaphthalene	239	3010	--	0.0687	0.0716 J	0.0289 J	0.0347	0.0684 J	0.0904 J	0.0451	0.104
Naphthalene	5.5	24.1	0.66	0.0625	0.136	0.0349 J	0.0217	0.115	0.115	0.0749	0.0991
Phenanthrene	--	--	--	0.376	0.511	0.196	0.0487	0.751	0.853	0.218	0.385
Pyrene	1790	22600	54.5	0.508	0.893	0.668	0.0789	0.946	0.917	0.495	0.541
PCBs (mg/kg)											
PCB-1016 (Aroclor 1016)	4.1	21.2	--	<0.0183	<0.0169	<0.0170	<0.0164	<0.0166	<0.0179	<0.0168	<0.0172
PCB-1221 (Aroclor 1221)	0.21	0.59	--	<0.0183	<0.0169	<0.0170	<0.0164	<0.0166	<0.0179	<0.0168	<0.0172
PCB-1232 (Aroclor 1232)	0.19	0.59	--	<0.0183	<0.0169	<0.0170	<0.0164	<0.0166	<0.0179	<0.0168	<0.0172
PCB-1242 (Aroclor 1242)	0.24	0.74	--	<0.0183	<0.0169	<0.0170	<0.0164	<0.0166	<0.0179	<0.0168	<0.0172
PCB-1248 (Aroclor 1248)	0.24	0.74	--	<0.0183	<0.0169	<0.0170	<0.0164	<0.0166	<0.0179	<0.0168	<0.0172
PCB-1254 (Aroclor 1254)	0.24	0.74	--	0.0342 J	<0.0169	0.0182 J	0.0185 J	0.0189 J	0.0295 J	0.0447 J	0.0428 J
PCB-1260 (Aroclor 1260)	0.24	0.74	--	<0.0183	<0.0169	0.0324 J	0.0183 J	0.0238 J	0.0270 J	0.0245 J	0.0301 J
PCB, Total	0.23	0.74	0.0094	**0.0342 J** C	<0.0169	**0.0507 J** C	**0.0368 J** C	**0.0427 J** C	**0.0566 J** C	**0.0692** C	**0.0729** C
Metals (mg/kg)											
Arsenic	0.677	3	0.584	**2.0 J** ACD	**5.6** ABCD	**3.1** ABCD	**2.3 J** ACD	**3.4** ABCD	**5.3** ABCD	**1.6 J**	**4.1** ABCD
Barium	15300	100000	164.8	35.2	22.6	27.3	62.5	**285** C	44.6	30.7	41.6
Cadmium	71.1	985	0.752	0.18 J	<0.14	**1.1** C	0.24 J	0.54	0.60	0.14 J	0.40 J
Chromium	--	--	360000	9.8	7.2	11.1	15.9	49.8	7.7	10.7	12.4
Lead	400	800	27	**68.0** C	**61.6** C	**42.2** C	19.6	23.4	**153** C	**43.5** C	**112** C
Selenium	391	5840	0.52	<1.6	<1.4	<1.4	<1.4	<1.4	<1.5	<1.3	<1.4
Silver	391	5840	0.8491	<0.37	<0.32	<0.33	<0.33	**1.0 J** C	<0.35	<0.31	0.39 J
Mercury	3.13	3.13	0.208	0.079	0.055	0.030 J	0.019 J	0.052	0.044	**0.22** C	0.030 J

Notes:
PAHs = Polynuclear Aromatic Hydrocarbons
V OCs = V olatile Organic Compounds
ug/kg = Micrograms per kilogram.
mg/kg = Micrograms per kilogram.

J = Estimated value (+/- indicate bias).
U = Result qualified nondetect due to laboratory contamination.
Bold Results indicate an exceedance of an NR720 RCL

A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

B = Parameter exceeds Generic RCL for Industrial Direct Contact (none).

C = Parameter exceeds Generic RCL for Groundwater Pathway.

D = Exceedance was observed but analytical result is below background threshold value (BTV)

-- = No generic RCL established.
Generic RCLs Dec 2018 per WDNR PUB-RR-890.

Table 4
Groundwater Results - VOCs, PAHs, PCBs, and Metals
Fincantari Marinette Marine
Marinette, Wisconsin

	Sample ID		MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11
	Date		7/12/22	7/12/22	7/12/22	7/13/22	7/12/22	7/12/22	7/13/22	7/13/22	7/12/22	7/12/22	7/13/22
Analyte	ES	PAL											
VOCs (ug/L)													
Benzene	5	0.5	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Bromobenzene	--	--	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
Bromochloromethane	--	--	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
Bromodichloromethane	0.6	0.06	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42
Bromoform	4.4	0.44	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8
Bromomethane	10	1	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
n-Butylbenzene	--	--	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
sec-Butylbenzene	--	--	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42
tert-Butylbenzene	--	--	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59
Carbon tetrachloride	5	0.5	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
Chlorobenzene	100	20	<0.86	0.94 J	<0.86	<0.86	1.3	2.1	<0.86	<0.86	1.7	1.1	<0.86
Chloroethane	400	80	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Chloroform	6	0.6	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
Chloromethane	30	3	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6
2-Chlorotoluene	--	--	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89
4-Chlorotoluene	--	--	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89
1,2-Dibromo-3-chloropropane	0.2	0.02	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4
Dibromochloromethane	60	6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6
1,2-Dibromoethane (EDB)	0.05	0.005	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
Dibromomethane	--	--	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99
1,2-Dichlorobenzene	600	60	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
1,3-Dichlorobenzene	600	120	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
1,4-Dichlorobenzene	75	15	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89
Dichlorodifluoromethane	1000	200	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46
1,1-Dichloroethane	850	85	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
1,2-Dichloroethane	5	0.5	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29
1,1-Dichloroethene	7	0.7	<0.58	<0.58	<0.58	<0.58	<0.58	<0.58	<0.58	<0.58	<0.58	<0.58	<0.58
cis-1,2-Dichloroethene	70	7	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47
trans-1,2-Dichloroethene	100	20	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53
1,2-Dichloropropane	5	0.5	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45
1,3-Dichloropropane	--	--	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
2,2-Dichloropropane	--	--	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2
1,1-Dichloropropene	--	--	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
cis-1,3-Dichloropropene	0.4	0.04	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
trans-1,3-Dichloropropene	0.4	0.04	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
Diisopropyl ether	--	--	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
Ethylbenzene	700	140	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Hexachloro-1,3-butadiene	--	--	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7
Isopropylbenzene (Cumene)	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5 J	<1.0	<1.0
Methylene Chloride	5	0.5	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32
Methyl-tert-butyl ether	60	12	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
Naphthalene	100	10	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
n-Propylbenzene	--	--	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
Styrene	100	10	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,1,1,2-Tetrachloroethane	70	7	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
Tetrachloroethene	5	0.5	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
Toluene	800	160	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29
1,2,3-Trichlorobenzene	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	70	14	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95
1,1,1-Trichloroethane	200	40	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
1,1,2-Trichloroethane	5	0.5	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
Trichloroethene	5	0.5	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32
Trichlorofluoromethane	3490	698	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42
1,2,3-Trichloropropane	60	12	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
1,2,4-Trimethylbenzene	480	96	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45
1,3,5-Trimethylbenzene	480	96	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
Vinyl chloride	0.2	0.02	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Xylene (Total)	2000	400	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	--	--	<0.70	<0.70	<0.70	<0.70	<0.70	<0.70	<0.70	<0.70	<0.70	<0.70	<0.70
o-Xylene	--	--	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
PAHs (ug/L)													
Acenaphthene	--	--	<0.013	1.6	<0.013	0.086	0.066	0.13	0.087	<0.013	0.38	3.8	0.39
Acenaphthylene	--	--	<0.012	0.017 J	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.013	0.018 J	<0.012
Anthracene	3000	600	<0.018	0.028 J	<0.018	0.024 J	<0.018	<0.018	<0.018	<0.018	<0.019	0.026 J	0.039 J
Benzo(a)anthracene	--	--	<0.013	<0.013	<0.013	0.016 J	0.015 J	<0.013	<0.013	<0.013	<0.014	<0.013	<0.013
Benzo(a)pyrene	0.2	0.02	<0.012	<0.012	<0.012	<0.012	<0.013	<0.012	<0.012	<0.012	<0.013	<0.012	<0.012
Benzo(b)fluoranthene	0.2	0.02	<0.0088	<0.0086	<0.0088	<0.0088	<0.0090	<0.0086	<0.0088	<0.0088	<0.0093	<0.0088	<0.0087
Benzo(g,h,i)perylene	--	--	<0.022	<0.022	<0.023	<0.023	<0.023	<0.022	<0.023	<0.023	<0.024	<0.022	<0.022
Benzo(k)fluoranthene	--	--	<0.021	<0.021	<0.022	<0.022	<0.022	<0.021	<0.022	<0.022	<0.023	<0.021	<0.021
Chrysene	0.2	0.02	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.013	<0.012	<0.012
Dibenz(a,h)anthracene	--	--	0.027 J	<0.017	<0.017	<0.017	<0.018	<0.017	<0.017	<0.017	<0.018	<0.017	<0.017
Fluoranthene	400	80	<0.025	0.041 J	<0.025	0.027 J	<0.026	<0.025	<0.025	<0.025	<0.027	<0.025	0.035 J
Fluorene	400	80	<0.023	0.18	<0.023	<0.023	0.044 J	<0.022	<0.023	<0.023	<0.024	0.68	0.044 J
Indeno(1,2,3-cd)pyrene	--	--	0.017 J	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.016	<0.015	<0.015
1-Methylnaphthalene	--	--	<0.017	0.025 J	<0.017	<0.017	<0.018	<0.017	<0.017	<0.017	<0.018	4.7	0.037 J
2-Methylnaphthalene	--	--	<0.013	<0.013	<0.013	<0.013	<0.014	<0.013	<0.013	<0.013	<0.014	<0.013	0.019 J
Naphthalene	100	10	<0.019	0.057	<0.019	<0.019	<0.020	<0.019	0.029 J	<0.019	<0.020	0.045 J	0.024 J
Phenanthrene	--	--	<0.025	0.042 J	<0.025	0.025 J	0.048 J	<0.024	<0.025	0.032 J	<0.026	0.15	0.14
Pyrene	250	50	<0.022	0.037 J	<0.022	0.025 J	0.025 J	<0.021	<0.022	<0.022	<0.023	<0.022	0.025 J
PCB (ug/L)													
PCB-1016 (Aroclor 1016)	--	--	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
PCB-1221 (Aroclor 1221)	--	--	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
PCB-1232 (Aroclor 1232)	--	--	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
PCB-1242 (Aroclor 1242)	--	--	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
PCB-1248 (Aroclor 1248)	--	--	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
PCB-1254 (Aroclor 1254)	--	--	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
PCB-1260 (Aroclor 1260)	--	--	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
PCB, Total	0.03	0.003	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
Metals (ug/L)													
Arsenic	10	1	0.48 J	**21.6**	*6.1*	**31.0**	*9.3*	**91.4**	**126**	*8.0*	*5.9*	**23.2**	**45.7**
Barium	2000	400	*413*	171	123	180	*410*	158	234	96.9	*621*	251	*439*
Cadmium	5	0.5	0.060 J	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022
Chromium	100	10	0.62	0.94	2.0	1.7	2.2	4.7	1.7	2.5	1.8	1.5	0.99
Lead	15	1.5	0.16 J	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Selenium	50	10	1.7	0.47 J	0.70 J	0.60 J	1.2	0.78 J	0.75 J	0.49 J	0.94 J	0.89 J	0.67 J
Silver	50	10	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029
Mercury 2 0.2 <0.066 <0.066 <0.066 <0.066 <0.066 <0.066 <0.066 <0.066 <0.066 <0.066 <0.066													

Notes:
µg/L = micrograms per liter.
J - Estimated concentration between reporting limit and method detection limit
Metals were field filtered for dissolved analysis
NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit, February 2017, Exceedances are **Bold**
NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard, February 2017, Exceedances *Underlined Italics*

Table 4
Groundwater Results - VOCs, PAHs, PCBs, and Metals
Fincantari Marinette Marine
Marinette, Wisconsin

	Sample ID		MW-12	MW-13	MW-14	MW-15	MW-16
	Date		7/13/22	7/12/22	7/12/22	7/13/22	7/13/22
Analyte	ES	PAL					
VOCs (ug/L)							
Benzene	5	0.5	<0.30	<0.30	<0.30	2.3	<0.30
Bromobenzene	--	--	<0.36	<0.36	<0.36	<0.36	<0.36
Bromochloromethane	--	--	<0.36	<0.36	<0.36	<0.36	<0.36
Bromodichloromethane	0.6	0.06	<0.42	<0.42	<0.42	<0.42	<0.42
Bromoform	4.4	0.44	<3.8	<3.8	<3.8	<3.8	<3.8
Bromomethane	10	1	<1.2	<1.2	<1.2	<1.2	<1.2
n-Butylbenzene	--	--	<0.86	<0.86	<0.86	<0.86	<0.86
sec-Butylbenzene	--	--	<0.42	<0.42	<0.42	<0.42	<0.42
tert-Butylbenzene	--	--	<0.59	<0.59	<0.59	<0.59	<0.59
Carbon tetrachloride	5	0.5	<0.37	<0.37	<0.37	<0.37	<0.37
Chlorobenzene	100	20	<0.86	5.4	3.2	<0.86	<0.86
Chloroethane	400	80	<1.4	<1.4	<1.4	<1.4	<1.4
Chloroform	6	0.6	<1.2	<1.2	<1.2	<1.2	<1.2
Chloromethane	30	3	<1.6	<1.6	<1.6	<1.6	<1.6
2-Chlorotoluene	--	--	<0.89	<0.89	<0.89	<0.89	<0.89
4-Chlorotoluene	--	--	<0.89	<0.89	<0.89	<0.89	<0.89
1,2-Dibromo-3-chloropropane	0.2	0.02	<2.4	<2.4	<2.4	<2.4	<2.4
Dibromochloromethane	60	6	<2.6	<2.6	<2.6	<2.6	<2.6
1,2-Dibromoethane (EDB)	0.05	0.005	<0.31	<0.31	<0.31	<0.31	<0.31
Dibromomethane	--	--	<0.99	<0.99	<0.99	<0.99	<0.99
1,2-Dichlorobenzene	600	60	<0.33	0.38 J	<0.33	<0.33	<0.33
1,3-Dichlorobenzene	600	120	<0.35	<0.35	<0.35	<0.35	<0.35
1,4-Dichlorobenzene	75	15	<0.89	1.9	<0.89	<0.89	<0.89
Dichlorodifluoromethane	1000	200	<0.46	<0.46	<0.46	<0.46	<0.46
1,1-Dichloroethane	850	85	<0.30	<0.30	<0.30	<0.30	<0.30
1,2-Dichloroethane	5	0.5	<0.29	<0.29	<0.29	<0.29	<0.29
1,1-Dichloroethene	7	0.7	<0.58	<0.58	<0.58	<0.58	<0.58
cis-1,2-Dichloroethene	70	7	<0.47	<0.47	<0.47	<0.47	<0.47
trans-1,2-Dichloroethene	100	20	<0.53	<0.53	<0.53	<0.53	<0.53
1,2-Dichloropropane	5	0.5	<0.45	<0.45	<0.45	<0.45	<0.45
1,3-Dichloropropane	--	--	<0.30	<0.30	<0.30	<0.30	<0.30
2,2-Dichloropropane	--	--	<4.2	<4.2	<4.2	<4.2	<4.2
1,1-Dichloropropene	--	--	<0.41	<0.41	<0.41	<0.41	<0.41
cis-1,3-Dichloropropene	0.4	0.04	<0.36	<0.36	<0.36	<0.36	<0.36
trans-1,3-Dichloropropene	0.4	0.04	<3.5	<3.5	<3.5	<3.5	<3.5
Diisopropyl ether	--	--	<1.1	<1.1	<1.1	<1.1	<1.1
Ethylbenzene	700	140	<0.33	<0.33	<0.33	<0.33	<0.33
Hexachloro-1,3-butadiene	--	--	<2.7	<2.7	<2.7	<2.7	<2.7
Isopropylbenzene (Cumene)	--	--	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	--	--	<1.0	3.2 J	<1.0	<1.0	<1.0
Methylene Chloride	5	0.5	<0.32	<0.32	<0.32	<0.32	<0.32
Methyl-tert-butyl ether	60	12	<1.1	<1.1	<1.1	<1.1	<1.1
Naphthalene	100	10	<1.1	<1.1	<1.1	*19.9*	<1.1
n-Propylbenzene	--	--	<0.35	<0.35	<0.35	<0.35	<0.35
Styrene	100	10	<0.36	<0.36	<0.36	<0.36	<0.36
1,1,1,2-Tetrachloroethane	70	7	<0.36	<0.36	<0.36	<0.36	<0.36
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.38	<0.38	<0.38	<0.38	<0.38
Tetrachloroethene	5	0.5	<0.41	<0.41	<0.41	<0.41	<0.41
Toluene	800	160	<0.29	<0.29	<0.29	<0.29	<0.29
1,2,3-Trichlorobenzene	--	--	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	70	14	<0.95	<0.95	<0.95	<0.95	<0.95
1,1,1-Trichloroethane	200	40	<0.30	<0.30	<0.30	<0.30	<0.30
1,1,2-Trichloroethane	5	0.5	<0.34	<0.34	<0.34	<0.34	<0.34
Trichloroethene	5	0.5	<0.32	<0.32	<0.32	<0.32	<0.32
Trichlorofluoromethane	3490	698	<0.42	<0.42	<0.42	<0.42	<0.42
1,2,3-Trichloropropane	60	12	<0.56	<0.56	<0.56	<0.56	<0.56
1,2,4-Trimethylbenzene	480	96	<0.45	<0.45	<0.45	3.4	<0.45
1,3,5-Trimethylbenzene	480	96	<0.36	<0.36	<0.36	0.85 J	<0.36
Vinyl chloride	0.2	0.02	<0.17	<0.17	<0.17	<0.17	<0.17
Xylene (Total)	2000	400	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	--	--	<0.70	<0.70	<0.70	<0.70	<0.70
o-Xylene	--	--	<0.35	<0.35	<0.35	<0.35	<0.35
PAHs (ug/L)							
Acenaphthene	--	--	5.7	0.23	0.18	5.5	1.2
Acenaphthylene	--	--	0.026 J	0.021 J	<0.012	0.049 J	0.060
Anthracene	3000	600	0.24	0.18	<0.018	0.36	0.17
Benzo(a)anthracene	--	--	0.035 J	0.086	<0.013	0.031 J	0.039 J
Benzo(a)pyrene	0.2	0.02	0.017 J	*0.066*	<0.012	<0.024	*0.032 J*
Benzo(b)fluoranthene	0.2	0.02	0.020 J	*0.078*	<0.0089	<0.018	*0.034 J*
Benzo(g,h,i)perylene	--	--	<0.022	0.046 J	<0.023	<0.045	0.024 J
Benzo(k)fluoranthene	--	--	<0.021	0.026 J	<0.022	<0.043	<0.022
Chrysene	0.2	0.02	*0.028 J*	*0.083*	<0.012	<0.024	*0.041 J*
Dibenz(a,h)anthracene	--	--	<0.017	<0.018	<0.017	<0.034	<0.018
Fluoranthene	400	80	0.29	0.42	<0.026	0.39	0.27
Fluorene	400	80	1.1	0.16	<0.023	1.1	0.47
Indeno(1,2,3-cd)pyrene	--	--	<0.015	0.038 J	<0.015	<0.030	0.019 J
1-Methylnaphthalene	--	--	2.6	0.15	0.68	5.8	0.74
2-Methylnaphthalene	--	--	0.70	0.072	0.015 J	4.8	0.38
Naphthalene	100	10	0.087	0.078	0.11	9.8	0.41
Phenanthrene	--	--	1.5	0.83	<0.025	2.1	1.3
Pyrene	250	50	0.23	0.36	<0.022	0.39	0.21
PCB (ug/L)							
PCB-1016 (Aroclor 1016)	--	--	<0.11	<0.11	<0.11	<0.11	<0.11
PCB-1221 (Aroclor 1221)	--	--	<0.11	<0.11	<0.11	<0.11	<0.11
PCB-1232 (Aroclor 1232)	--	--	<0.11	<0.11	<0.11	<0.11	<0.11
PCB-1242 (Aroclor 1242)	--	--	<0.11	<0.11	<0.11	<0.11	<0.11
PCB-1248 (Aroclor 1248)	--	--	<0.11	<0.11	<0.11	<0.11	<0.11
PCB-1254 (Aroclor 1254)	--	--	<0.11	<0.11	<0.11	<0.11	<0.11
PCB-1260 (Aroclor 1260)	--	--	<0.11	<0.11	<0.11	<0.11	<0.11
PCB, Total	0.03	0.003	<0.11	<0.11	<0.11	<0.11	<0.11
Metals (ug/L)							
Arsenic	10	1	*1.9*	**15.9**	*5.4*	*8.6*	**126**
Barium	2000	400	58.3	*574*	152	270	*582*
Cadmium	5	0.5	<0.022	<0.022	<0.022	0.033 J	0.022 J
Chromium	100	10	1.1	1.4	1.1	1.5	0.60
Lead	15	1.5	<0.14	<0.14	<0.14	<0.14	<0.14
Selenium	50	10	0.40 J	0.53 J	0.46 J	0.53 J	0.54 J
Silver	50	10	<0.029	<0.029	<0.029	<0.029	<0.029
Mercury	2	0.2	<0.066	<0.066	<0.066	<0.066	<0.066

Notes:
µg/L = micrograms per liter.
J - Estimated concentration between reporting limit and method detection limit
Metals were field filtered for dissolved analysis
NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit, February 2017, Exceedances are **B old**
NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard, February 2017, Exceedances *Underlined Italics*

August 04, 2022

Vista Work Order No. 2206187

Ms. Janel Dean
AECOM
558 North Main Street
Oshkosh, WI 54901

Dear Ms. Dean,

Enclosed are the amended results for the sample set received at Vista Analytical Laboratory on June 22, 2022 under your Project Name 'FMM Site Investigation'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at jfox@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Jamie Fox
Laboratory Director

Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 2206187
Case Narrative

Sample Condition on Receipt:

Seventeen soil samples and five aqueous samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The samples were received in good condition and within the recommended temperature requirements. As directed, sample "MW-8_(13-14)" was placed on hold. As directed, this report was amended to update the sample analyses for all samples except sample "MW-13_(1.5-2.5)".

Analytical Notes:

PFAS Isotope Dilution Method - Solid

The samples were extracted and analyzed for a selected list of PFAS using Vista's Isotope Dilution Method. The results for PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Results for all other analytes include the linear isomers only.

Holding Times

The samples were extracted and analyzed within the hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above the Reporting Limit (RL). The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries outside the acceptance criteria are listed in the table below.

PFAS Isotope Dilution Method - Aqueous

The samples were extracted and analyzed for a selected list of PFAS using Vista's PFAS Isotope Dilution Method. The results for PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Results for all other analytes include the linear isomers only.

Holding Times

The samples were extracted and analyzed within the hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above the Reporting Limit. The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries for all QC and field samples were within the acceptance criteria.

QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
B22G044-BS1	B22G044-BS1	PFAS Isotope Dilution Method	d5-EtFOSA	H	9.20

H = Recovery was outside laboratory acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2206187-01	MW-9_(1.5-3.5)	13-Jun-22 12:15	22-Jun-22 09:54	HDPE Jar, 6 oz
2206187-02	MW-13_(1.5-2.5)	13-Jun-22 11:30	22-Jun-22 09:54	HDPE Jar, 6 oz
2206187-03	MW-1_(1.5-3.5)	13-Jun-22 13:10	22-Jun-22 09:54	HDPE Jar, 6 oz
2206187-04	MW-5_(1-3)	13-Jun-22 13:45	22-Jun-22 09:54	HDPE Jar, 6 oz
2206187-05	MW-14_(1.5-3.5)	14-Jun-22 07:40	22-Jun-22 09:54	HDPE Jar, 6 oz
2206187-06	MW-10_(2-4)	14-Jun-22 08:15	22-Jun-22 09:54	HDPE Jar, 6 oz
2206187-07	MW-2_(1.5-3.5)	14-Jun-22 11:00	22-Jun-22 09:54	HDPE Jar, 6 oz
2206187-08	MW-7_(1.5-3.5)	14-Jun-22 11:30	22-Jun-22 09:54	HDPE Jar, 6 oz
2206187-09	MW-11_(1.5-3.5)	14-Jun-22 12:10	22-Jun-22 09:54	HDPE Jar, 6 oz
2206187-10	MW-3_(1.5-3.5)	14-Jun-22 14:30	22-Jun-22 09:54	HDPE Jar, 6 oz
2206187-11	MW-6_(1.5-3.5)	14-Jun-22 12:40	22-Jun-22 09:54	HDPE Jar, 6 oz
2206187-12	MW-15_(1.5-3.5)	14-Jun-22 13:30	22-Jun-22 09:54	HDPE Jar, 6 oz
2206187-13	MW-16_(1.5-3.5)	14-Jun-22 15:15	22-Jun-22 09:54	HDPE Jar, 6 oz
2206187-14	MW-12_(1.5-3.5)	15-Jun-22 09:00	22-Jun-22 09:54	HDPE Jar, 6 oz
2206187-15	MW-8_(1.5-3.5)	15-Jun-22 09:50	22-Jun-22 09:54	HDPE Jar, 6 oz
2206187-16	MW-8_(13-14)	15-Jun-22 10:00	22-Jun-22 09:54	HDPE Jar, 6 oz
2206187-17	MW-4_(1.5-3.5)	15-Jun-22 11:30	22-Jun-22 09:54	HDPE Jar, 6 oz
2206187-18	FB_061322	13-Jun-22 13:15	22-Jun-22 09:54	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
2206187-19	FB_061422	14-Jun-22 08:30	22-Jun-22 09:54	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
2206187-20	FB_061522	15-Jun-22 12:00	22-Jun-22 09:54	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
2206187-21	Source Water	15-Jun-22 07:50	22-Jun-22 09:54	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
2206187-22	EQB_061522	15-Jun-22 07:30	22-Jun-22 09:54	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL

ANALYTICAL RESULTS

Sample ID: Method Blank — **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Solid

Laboratory Data

Lab Sample: B22G044-BLK1
Column: BEH C18

Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	<0.460	0.460	0.500		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
L-PFPeA	<0.368	0.368	0.500		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
L-PFBS	<0.306	0.306	0.500		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
L-4:2 FTS	<0.644	0.644	1.00		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
L-PFHxA	<0.320	0.320	0.500		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
L-PFPeS	<0.300	0.300	0.500		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
HFPO-DA	<0.868	0.868	1.00		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
L-PFHpA	<0.486	0.486	0.500		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
ADONA	<0.252	0.252	0.500		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
L-PFHxS	<0.486	0.486	0.500		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
Br-PFHxS	<0.486	0.486	0.500		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
Total PFHxS	<0.486	0.486	0.500		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
L-6:2 FTS	<0.518	0.518	1.00		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
L-PFOA	<0.270	0.270	0.500		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
Br-PFOA	<0.270	0.270	0.500		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
Total PFOA	<0.270	0.270	0.500		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
L-PFHpS	<0.516	0.516	1.00		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
L-PFNA	<0.372	0.372	0.500		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
L-PFOSA	<0.572	0.572	1.00		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
L-PFOS	<0.648	0.648	1.00		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
Br-PFOS	<0.648	0.648	1.00		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
Total PFOS	<0.648	0.648	1.00		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
9Cl-PF3ONS	<0.328	0.328	0.500		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
L-PFDA	<0.442	0.442	0.500		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
L-8:2FTS	<0.588	0.588	1.00		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
L-PFNS	<0.828	0.828	1.00		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
L-MeFOSAA	<0.404	0.404	0.500		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
Br-MeFOSAA	<0.404	0.404	0.500		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
Total MeFOSAA	<0.404	0.404	0.500		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
L-EtFOSAA	<0.380	0.380	0.500		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
Br-EtFOSAA	<0.380	0.380	0.500		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
Total EtFOSAA	<0.380	0.380	0.500		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
L-PFUnA	<0.506	0.506	1.00		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
L-PFDS	<0.242	0.242	0.500		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
11Cl-PF3OUdS	<0.532	0.532	1.00		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
L-PFDoA	<0.456	0.456	0.500		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
L-MeFOSA	<1.34	1.34	1.50		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
L-PFTrDA	<0.406	0.406	0.500		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1

Sample ID: Method Blank

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Solid

Laboratory Data

Lab Sample: B22G044-BLK1
Column: BEH C18

Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFDoS	<0.422	0.422	0.500		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
L-PFTeDA	<0.428	0.428	0.500		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
L-EtFOSA	<0.776	0.776	1.00		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
L-EtFOSE	<0.736	0.736	1.00		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
L-MeFOSE	<0.620	0.620	1.00		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	92.4	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
13C3-PFPeA	IS	91.1	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
13C3-PFBS	IS	94.8	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
13C3-HFPO-DA	IS	91.1	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
13C2-4:2 FTS	IS	92.0	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
13C2-PFHxA	IS	95.3	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
13C4-PFHpA	IS	91.8	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
13C3-PFHxS	IS	92.2	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
13C2-6:2 FTS	IS	101	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
13C5-PFNA	IS	77.8	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
13C8-PFOSA	IS	59.2	10 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
13C2-PFOA	IS	88.1	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
13C8-PFOS	IS	87.2	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
13C2-PFDA	IS	68.9	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
13C2-8:2 FTS	IS	90.0	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
d3-MeFOSAA	IS	69.3	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
13C2-PFUnA	IS	61.1	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
d5-EtFOSAA	IS	68.2	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
13C2-PFDoA	IS	65.6	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
d3-MeFOSA	IS	15.0	10 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
13C2-PFTeDA	IS	74.2	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
d5-EtFOSA	IS	13.9	10 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
d7-MeFOSE	IS	35.0	10 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1
d9-EtFOSE	IS	41.3	10 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:03	1

MDL - Method Detection Limit
RL - Reporting limit

The results are reported in dry weight.
The sample size is reported in wet weight.
Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OPR **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Solid

Laboratory Data

Lab Sample: B22G044-BS1
Column: BEH C18

Analyte	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	1.06	1.00	106	50 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
L-PFPeA	1.04	1.00	104	50 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
L-PFBS	0.969	1.00	96.9	50 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
L-4:2 FTS	1.07	1.00	107	50 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
L-PFHxA	1.04	1.00	104	50 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
L-PFPeS	0.983	1.00	98.3	50 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
HFPO-DA	0.958	1.00	95.8	50 - 150	J	B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
L-PFHpA	1.02	1.00	102	50 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
ADONA	0.976	1.00	97.6	50 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
Total PFHxS	1.01	1.00	101	50 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
L-6:2 FTS	1.19	1.00	119	50 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
Total PFOA	1.01	1.00	101	50 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
L-PFHpS	1.08	1.00	108	50 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
L-PFNA	1.05	1.00	105	50 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
L-PFOSA	1.24	1.00	124	50 - 150	Q	B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
Total PFOS	1.17	1.00	117	50 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
9Cl-PF3ONS	0.988	1.00	98.8	50 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
L-PFDA	1.09	1.00	109	50 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
L-8:2FTS	1.25	1.00	125	50 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
L-PFNS	0.911	1.00	91.1	50 - 150	J	B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
Total MeFOSAA	1.15	1.00	115	50 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
Total EtFOSAA	1.04	1.00	104	50 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
L-PFUnA	0.961	1.00	96.1	50 - 150	J	B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
L-PFDS	0.762	1.00	76.2	50 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
11Cl-PF3OUdS	1.38	1.00	138	50 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
L-PFDoA	0.846	1.00	84.6	50 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
L-MeFOSA	0.538	1.00	53.8	50 - 150	J	B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
L-PFTrDA	1.08	1.00	108	50 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
PFDoS	1.35	1.00	135	50 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
L-PFTeDA	1.03	1.00	103	50 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
L-EtFOSA	0.599	1.00	59.9	50 - 150	J, Q	B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1

Sample ID: OPR

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Solid

Laboratory Data

Lab Sample: B22G044-BS1
Column: BEH C18

Analyte	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-EtFOSE	0.994	1.00	99.4	50 - 150	J	B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
L-MeFOSE	1.32	1.00	132	50 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	90.7	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
13C3-PFPeA	IS	91.6	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
13C3-PFBS	IS	89.5	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
13C3-HFPO-DA	IS	90.7	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
13C2-4:2 FTS	IS	92.3	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
13C2-PFHxA	IS	90.8	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
13C4-PFHpA	IS	90.3	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
13C3-PFHxS	IS	97.9	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
13C2-6:2 FTS	IS	91.6	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
13C5-PFNA	IS	76.2	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
13C8-PFOSA	IS	46.1	10 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
13C2-PFOA	IS	83.8	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
13C8-PFOS	IS	84.8	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
13C2-PFDA	IS	62.0	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
13C2-8:2 FTS	IS	86.5	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
d3-MeFOSAA	IS	50.2	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
13C2-PFUnA	IS	48.9	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
d5-EtFOSAA	IS	53.7	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
13C2-PFDoA	IS	45.9	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
d3-MeFOSA	IS	11.6	10 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
13C2-PFTeDA	IS	51.2	25 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
d5-EtFOSA	IS	9.20	10 - 150	H	B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
d7-MeFOSE	IS	24.1	10 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1
d9-EtFOSE	IS	20.7	10 - 150		B22G044	11-Jul-22	1.00 g	14-Jul-22 18:13	1

Sample ID: MW-9_(1.5-3.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 13-Jun-22 12:15

Laboratory Data

Lab Sample: 2206187-01
Date Received: 22-Jun-22 09:54
% Solids: 78.2
Column: BEH C18

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.446	0.446	0.484		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
PFPeA	2706-90-3	<0.357	0.357	0.484		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
PFBS	375-73-5	<0.296	0.296	0.484		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
4:2 FTS	757124-72-4	<0.624	0.624	0.969		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
PFHxA	307-24-4	<0.310	0.310	0.484		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
PFPeS	2706-91-4	<0.291	0.291	0.484		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
HFPO-DA	13252-13-6	<0.841	0.841	0.969		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
PFHpA	375-85-9	<0.471	0.471	0.484		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
ADONA	919005-14-4	<0.244	0.244	0.484		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
PFHxS	355-46-4	0.837	0.298	0.484		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
6:2 FTS	27619-97-2	<0.502	0.502	0.969		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
PFOA	335-67-1	0.575	0.262	0.484		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
PFHpS	375-92-8	<0.500	0.500	0.969		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
PFNA	375-95-1	<0.360	0.360	0.484		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
PFOSA	754-91-6	<0.554	0.554	0.969		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
PFOS	1763-23-1	2.66	0.628	0.969		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
9Cl-PF3ONS	756426-58-1	<0.318	0.318	0.484		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
PFDA	335-76-2	<0.428	0.428	0.484		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
8:2 FTS	39108-34-4	<0.570	0.570	0.969		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
PFNS	68259-12-1	<0.802	0.802	0.969		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
MeFOSAA	2355-31-9	<0.391	0.391	0.484		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
EtFOSAA	2991-50-6	<0.368	0.368	0.484		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
PFUnA	2058-94-8	<0.490	0.490	0.969		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
PFDS	335-77-3	<0.234	0.234	0.484		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
11Cl-PF3OUdS	763051-92-9	<0.515	0.515	0.969		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
PFDoA	307-55-1	<0.442	0.442	0.484		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
MeFOSA	31506-32-8	<1.30	1.30	1.45		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
PFTrDA	72629-94-8	<0.393	0.393	0.484		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
PFDoS	79780-39-5	<0.409	0.409	0.484		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
PFTeDA	376-06-7	<0.415	0.415	0.484		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
EtFOSA	4151-50-2	<0.752	0.752	0.969		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
MeFOSE	24448-09-7	<0.601	0.601	0.969		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
EtFOSE	1691-99-2	<0.713	0.713	0.969		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	94.2	25 - 150		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
13C3-PFPeA	IS	92.9	25 - 150		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
13C3-PFBS	IS	102	25 - 150		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1

Sample ID: MW-9_(1.5-3.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 13-Jun-22 12:15

Laboratory Data

Lab Sample: 2206187-01
Date Received: 22-Jun-22 09:54
% Solids: 78.2
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	101	25 - 150		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
13C2-PFHxA	IS	96.3	25 - 150		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
13C3-HFPO-DA	IS	90.9	25 - 150		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
13C4-PFHpA	IS	92.2	25 - 150		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
13C3-PFHxS	IS	90.8	25 - 150		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
13C2-6:2 FTS	IS	109	25 - 150		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
13C2-PFOA	IS	85.1	25 - 150		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
13C5-PFNA	IS	74.8	25 - 150		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
13C8-PFOSA	IS	52.4	10 - 150		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
13C8-PFOS	IS	82.3	25 - 150		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
13C2-PFDA	IS	76.0	25 - 150		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
13C2-8:2 FTS	IS	112	25 - 150		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
d3-MeFOSAA	IS	84.2	25 - 150		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
d5-EtFOSAA	IS	66.5	25 - 150		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
13C2-PFUnA	IS	83.1	25 - 150		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
13C2-PFDoA	IS	96.7	25 - 150		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
d3-MeFOSA	IS	34.8	10 - 150		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
13C2-PFTeDA	IS	90.8	25 - 150		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
d5-EtFOSA	IS	40.9	10 - 150		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
d7-MeFOSE	IS	47.3	10 - 150		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1
d9-EtFOSE	IS	59.4	10 - 150		B22G044	11-Jul-22	1.32 g	14-Jul-22 18:24	1

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.
The sample size is reported in wet weight.
Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-13_(1.5-2.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 13-Jun-22 11:30

Laboratory Data

Lab Sample: 2206187-02
Date Received: 22-Jun-22 09:54
% Solids: 83.9
Column: BEH C18

Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	<0.457	0.457	0.497		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
L-PFPeA	<0.366	0.366	0.497		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
L-PFBS	<0.304	0.304	0.497		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
L-4:2 FTS	<0.640	0.640	0.994		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
L-PFHxA	<0.318	0.318	0.497		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
L-PFPeS	<0.298	0.298	0.497		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
HFPO-DA	<0.863	0.863	0.994		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
L-PFHpA	<0.483	0.483	0.497		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
ADONA	<0.250	0.250	0.497		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
L-PFHxS	0.762	0.483	0.497		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
Br-PFHxS	<0.483	0.483	0.497		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
Total PFHxS	0.762	0.483	0.497		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
L-6:2 FTS	<0.515	0.515	0.994		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
L-PFOA	<0.268	0.268	0.497		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
Br-PFOA	<0.268	0.268	0.497		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
Total PFOA	<0.268	0.268	0.497		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
L-PFHpS	<0.513	0.513	0.994		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
L-PFNA	<0.370	0.370	0.497		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
L-PFOSA	<0.568	0.568	0.994		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
L-PFOS	0.781	0.644	0.994	J	B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
Br-PFOS	1.64	0.644	0.994	Q	B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
Total PFOS	2.42	0.644	0.994		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
9Cl-PF3ONS	<0.326	0.326	0.497		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
L-PFDA	<0.439	0.439	0.497		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
L-8:2FTS	<0.584	0.584	0.994		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
L-PFNS	<0.823	0.823	0.994		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
L-MeFOSAA	<0.401	0.401	0.497		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
Br-MeFOSAA	<0.401	0.401	0.497		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
Total MeFOSAA	<0.401	0.401	0.497		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
L-EtFOSAA	<0.378	0.378	0.497		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
Br-EtFOSAA	<0.378	0.378	0.497		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
Total EtFOSAA	<0.378	0.378	0.497		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
L-PFUnA	<0.503	0.503	0.994		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
L-PFDS	<0.240	0.240	0.497		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
11Cl-PF3OUdS	<0.529	0.529	0.994		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
L-PFDoA	<0.453	0.453	0.497		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
L-MeFOSA	<1.33	1.33	1.49		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1

Sample ID: MW-13_(1.5-2.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 13-Jun-22 11:30

Laboratory Data

Lab Sample: 2206187-02
Date Received: 22-Jun-22 09:54
% Solids: 83.9
Column: BEH C18

Analyte	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFTrDA	<0.403	0.403	0.497		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
PFDoS	<0.419	0.419	0.497		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
L-PFTeDA	<0.425	0.425	0.497		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
L-EtFOSA	<0.771	0.771	0.994		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
L-EtFOSE	<0.731	0.731	0.994		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
L-MeFOSE	<0.616	0.616	0.994		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	92.4	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
13C3-PFPeA	IS	90.8	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
13C3-PFBS	IS	97.4	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
13C3-HFPO-DA	IS	92.0	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
13C2-4:2 FTS	IS	90.2	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
13C2-PFHxA	IS	91.9	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
13C4-PFHpA	IS	91.2	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
13C3-PFHxS	IS	97.1	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
13C2-6:2 FTS	IS	91.7	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
13C5-PFNA	IS	70.3	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
13C8-PFOSA	IS	49.3	10 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
13C2-PFOA	IS	86.3	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
13C8-PFOS	IS	83.5	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
13C2-PFDA	IS	65.0	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
13C2-8:2 FTS	IS	93.8	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
d3-MeFOSAA	IS	80.0	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
13C2-PFUnA	IS	65.2	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
d5-EtFOSAA	IS	72.0	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
13C2-PFDoA	IS	68.9	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
d3-MeFOSA	IS	37.2	10 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
13C2-PFTeDA	IS	81.7	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
d5-EtFOSA	IS	34.3	10 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
d7-MeFOSE	IS	47.1	10 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1
d9-EtFOSE	IS	49.5	10 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 18:34	1

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.
The sample size is reported in wet weight.
Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-1_(1.5-3.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 13-Jun-22 13:10

Laboratory Data

Lab Sample: 2206187-03
Date Received: 22-Jun-22 09:54
% Solids: 73.5
Column: BEH C18

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.450	0.450	0.489		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
PFPeA	2706-90-3	0.896	0.360	0.489		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
PFBS	375-73-5	<0.299	0.299	0.489		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
4:2 FTS	757124-72-4	<0.630	0.630	0.978		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
PFHxA	307-24-4	0.360	0.313	0.489	J, Q	B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
PFPeS	2706-91-4	<0.293	0.293	0.489		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
HFPO-DA	13252-13-6	<0.849	0.849	0.978		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
PFHpA	375-85-9	<0.475	0.475	0.489		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
ADONA	919005-14-4	<0.247	0.247	0.489		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
PFHxS	355-46-4	<0.301	0.301	0.489		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
6:2 FTS	27619-97-2	<0.507	0.507	0.978		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
PFOA	335-67-1	<0.264	0.264	0.489		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
PFHpS	375-92-8	<0.505	0.505	0.978		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
PFNA	375-95-1	<0.364	0.364	0.489		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
PFOSA	754-91-6	<0.560	0.560	0.978		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
PFOS	1763-23-1	<0.634	0.634	0.978		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
9Cl-PF3ONS	756426-58-1	<0.321	0.321	0.489		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
PFDA	335-76-2	<0.432	0.432	0.489		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
8:2 FTS	39108-34-4	<0.575	0.575	0.978		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
PFNS	68259-12-1	<0.810	0.810	0.978		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
MeFOSAA	2355-31-9	<0.395	0.395	0.489		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
EtFOSAA	2991-50-6	<0.372	0.372	0.489		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
PFUnA	2058-94-8	<0.495	0.495	0.978		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
PFDS	335-77-3	<0.237	0.237	0.489		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
11Cl-PF3OUdS	763051-92-9	<0.520	0.520	0.978		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
PFDoA	307-55-1	<0.446	0.446	0.489		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
MeFOSA	31506-32-8	<1.31	1.31	1.47		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
PFTrDA	72629-94-8	<0.397	0.397	0.489		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
PFDoS	79780-39-5	<0.413	0.413	0.489		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
PFTeDA	376-06-7	<0.419	0.419	0.489		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
EtFOSA	4151-50-2	<0.759	0.759	0.978		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
MeFOSE	24448-09-7	<0.607	0.607	0.978		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
EtFOSE	1691-99-2	<0.720	0.720	0.978		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	91.9	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
13C3-PFPeA	IS	93.3	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
13C3-PFBS	IS	91.7	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1

Sample ID: MW-1_(1.5-3.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 13-Jun-22 13:10

Laboratory Data

Lab Sample: 2206187-03
Date Received: 22-Jun-22 09:54
% Solids: 73.5
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	93.4	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
13C2-PFHxA	IS	93.0	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
13C3-HFPO-DA	IS	90.5	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
13C4-PFHpA	IS	96.9	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
13C3-PFHxS	IS	96.5	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
13C2-6:2 FTS	IS	95.4	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
13C2-PFOA	IS	93.1	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
13C5-PFNA	IS	83.9	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
13C8-PFOSA	IS	52.8	10 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
13C8-PFOS	IS	91.7	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
13C2-PFDA	IS	76.9	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
13C2-8:2 FTS	IS	92.2	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
d3-MeFOSAA	IS	77.7	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
d5-EtFOSAA	IS	74.6	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
13C2-PFUnA	IS	70.2	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
13C2-PFDoA	IS	76.7	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
d3-MeFOSA	IS	47.9	10 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
13C2-PFTeDA	IS	82.9	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
d5-EtFOSA	IS	52.8	10 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
d7-MeFOSE	IS	55.6	10 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1
d9-EtFOSE	IS	61.5	10 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 19:16	1

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.
The sample size is reported in wet weight.
Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-5_(1-3)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 13-Jun-22 13:45

Laboratory Data

Lab Sample: 2206187-04
Date Received: 22-Jun-22 09:54
% Solids: 85.8
Column: BEH C18

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.447	0.447	0.486		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
PFPeA	2706-90-3	<0.358	0.358	0.486		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
PFBS	375-73-5	<0.297	0.297	0.486		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
4:2 FTS	757124-72-4	<0.626	0.626	0.972		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
PFHxA	307-24-4	<0.311	0.311	0.486		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
PFPeS	2706-91-4	<0.292	0.292	0.486		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
HFPO-DA	13252-13-6	<0.843	0.843	0.972		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
PFHpA	375-85-9	<0.472	0.472	0.486		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
ADONA	919005-14-4	<0.245	0.245	0.486		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
PFHxS	355-46-4	<0.299	0.299	0.486		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
6:2 FTS	27619-97-2	<0.503	0.503	0.972		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
PFOA	335-67-1	<0.262	0.262	0.486		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
PFHpS	375-92-8	<0.501	0.501	0.972		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
PFNA	375-95-1	<0.361	0.361	0.486		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
PFOSA	754-91-6	<0.556	0.556	0.972		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
PFOS	1763-23-1	<0.630	0.630	0.972		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
9Cl-PF3ONS	756426-58-1	<0.319	0.319	0.486		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
PFDA	335-76-2	<0.429	0.429	0.486		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
8:2 FTS	39108-34-4	<0.571	0.571	0.972		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
PFNS	68259-12-1	<0.805	0.805	0.972		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
MeFOSAA	2355-31-9	<0.393	0.393	0.486		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
EtFOSAA	2991-50-6	<0.369	0.369	0.486		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
PFUnA	2058-94-8	<0.492	0.492	0.972		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
PFDS	335-77-3	<0.235	0.235	0.486		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
11Cl-PF3OUdS	763051-92-9	<0.517	0.517	0.972		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
PFDoA	307-55-1	<0.443	0.443	0.486		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
MeFOSA	31506-32-8	<1.30	1.30	1.46		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
PFTrDA	72629-94-8	<0.395	0.395	0.486		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
PFDoS	79780-39-5	<0.410	0.410	0.486		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
PFTeDA	376-06-7	<0.416	0.416	0.486		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
EtFOSA	4151-50-2	<0.754	0.754	0.972		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
MeFOSE	24448-09-7	<0.602	0.602	0.972		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
EtFOSE	1691-99-2	<0.715	0.715	0.972		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	88.2	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
13C3-PFPeA	IS	90.3	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
13C3-PFBS	IS	91.2	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1

Sample ID: MW-5_(1-3)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 13-Jun-22 13:45

Laboratory Data

Lab Sample: 2206187-04
Date Received: 22-Jun-22 09:54
% Solids: 85.8
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	97.1	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
13C2-PFHxA	IS	86.5	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
13C3-HFPO-DA	IS	88.4	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
13C4-PFHpA	IS	86.4	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
13C3-PFHxS	IS	89.7	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
13C2-6:2 FTS	IS	95.6	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
13C2-PFOA	IS	84.8	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
13C5-PFNA	IS	74.9	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
13C8-PFOSA	IS	47.1	10 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
13C8-PFOS	IS	83.7	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
13C2-PFDA	IS	66.4	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
13C2-8:2 FTS	IS	90.6	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
d3-MeFOSAA	IS	68.0	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
d5-EtFOSAA	IS	65.5	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
13C2-PFUnA	IS	63.9	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
13C2-PFDoA	IS	77.4	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
d3-MeFOSA	IS	37.2	10 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
13C2-PFTeDA	IS	79.4	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
d5-EtFOSA	IS	36.6	10 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
d7-MeFOSE	IS	45.3	10 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1
d9-EtFOSE	IS	48.4	10 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 19:26	1

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.
The sample size is reported in wet weight.
Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-14_(1.5-3.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 14-Jun-22 07:40

Laboratory Data

Lab Sample: 2206187-05
Date Received: 22-Jun-22 09:54
% Solids: 68.2
Column: BEH C18

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.444	0.444	0.482		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
PFPeA	2706-90-3	<0.355	0.355	0.482		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
PFBS	375-73-5	<0.295	0.295	0.482		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
4:2 FTS	757124-72-4	<0.621	0.621	0.965		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
PFHxA	307-24-4	<0.309	0.309	0.482		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
PFPeS	2706-91-4	<0.289	0.289	0.482		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
HFPO-DA	13252-13-6	<0.838	0.838	0.965		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
PFHpA	375-85-9	<0.469	0.469	0.482		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
ADONA	919005-14-4	<0.243	0.243	0.482		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
PFHxS	355-46-4	0.309	0.297	0.482	J, Q	B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
6:2 FTS	27619-97-2	<0.500	0.500	0.965		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
PFOA	335-67-1	<0.261	0.261	0.482		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
PFHpS	375-92-8	<0.498	0.498	0.965		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
PFNA	375-95-1	<0.359	0.359	0.482		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
PFOSA	754-91-6	<0.552	0.552	0.965		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
PFOS	1763-23-1	0.866	0.625	0.965	J, Q	B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
9Cl-PF3ONS	756426-58-1	<0.316	0.316	0.482		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
PFDA	335-76-2	<0.426	0.426	0.482		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
8:2 FTS	39108-34-4	<0.567	0.567	0.965		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
PFNS	68259-12-1	<0.799	0.799	0.965		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
MeFOSAA	2355-31-9	<0.390	0.390	0.482		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
EtFOSAA	2991-50-6	<0.367	0.367	0.482		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
PFUnA	2058-94-8	<0.488	0.488	0.965		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
PFDS	335-77-3	<0.234	0.234	0.482		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
11Cl-PF3OUdS	763051-92-9	<0.513	0.513	0.965		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
PFDoA	307-55-1	<0.440	0.440	0.482		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
MeFOSA	31506-32-8	<1.29	1.29	1.45		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
PFTrDA	72629-94-8	<0.392	0.392	0.482		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
PFDoS	79780-39-5	<0.407	0.407	0.482		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
PFTeDA	376-06-7	<0.413	0.413	0.482		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
EtFOSA	4151-50-2	<0.749	0.749	0.965		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
MeFOSE	24448-09-7	<0.598	0.598	0.965		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
EtFOSE	1691-99-2	<0.710	0.710	0.965		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	92.0	25 - 150		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
13C3-PFPeA	IS	88.9	25 - 150		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
13C3-PFBS	IS	89.2	25 - 150		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1

Sample ID: MW-14_(1.5-3.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 14-Jun-22 07:40

Laboratory Data

Lab Sample: 2206187-05
Date Received: 22-Jun-22 09:54
% Solids: 68.2
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	96.8	25 - 150		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
13C2-PFHxA	IS	104	25 - 150		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
13C3-HFPO-DA	IS	83.9	25 - 150		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
13C4-PFHpA	IS	90.3	25 - 150		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
13C3-PFHxS	IS	94.3	25 - 150		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
13C2-6:2 FTS	IS	97.7	25 - 150		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
13C2-PFOA	IS	81.7	25 - 150		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
13C5-PFNA	IS	72.9	25 - 150		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
13C8-PFOSA	IS	53.2	10 - 150		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
13C8-PFOS	IS	77.4	25 - 150		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
13C2-PFDA	IS	68.8	25 - 150		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
13C2-8:2 FTS	IS	88.0	25 - 150		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
d3-MeFOSAA	IS	73.9	25 - 150		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
d5-EtFOSAA	IS	75.1	25 - 150		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
13C2-PFUnA	IS	75.8	25 - 150		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
13C2-PFDoA	IS	82.8	25 - 150		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
d3-MeFOSA	IS	44.9	10 - 150		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
13C2-PFTeDA	IS	83.9	25 - 150		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
d5-EtFOSA	IS	46.7	10 - 150		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
d7-MeFOSE	IS	56.5	10 - 150		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1
d9-EtFOSE	IS	65.1	10 - 150		B22G044	11-Jul-22	1.52 g	14-Jul-22 19:36	1

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.
The sample size is reported in wet weight.
Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-10_(2-4)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 14-Jun-22 08:15

Laboratory Data

Lab Sample: 2206187-06
Date Received: 22-Jun-22 09:54
% Solids: 77.0
Column: BEH C18

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.459	0.459	0.499		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
PFPeA	2706-90-3	<0.368	0.368	0.499		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
PFBS	375-73-5	<0.306	0.306	0.499		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
4:2 FTS	757124-72-4	<0.643	0.643	0.999		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
PFHxA	307-24-4	<0.320	0.320	0.499		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
PFPeS	2706-91-4	<0.300	0.300	0.499		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
HFPO-DA	13252-13-6	<0.867	0.867	0.999		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
PFHpA	375-85-9	<0.485	0.485	0.499		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
ADONA	919005-14-4	<0.252	0.252	0.499		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
PFHxS	355-46-4	<0.308	0.308	0.499		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
6:2 FTS	27619-97-2	<0.517	0.517	0.999		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
PFOA	335-67-1	<0.270	0.270	0.499		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
PFHpS	375-92-8	<0.515	0.515	0.999		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
PFNA	375-95-1	<0.371	0.371	0.499		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
PFOSA	754-91-6	<0.571	0.571	0.999		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
PFOS	1763-23-1	<0.647	0.647	0.999		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
9Cl-PF3ONS	756426-58-1	<0.328	0.328	0.499		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
PFDA	335-76-2	<0.441	0.441	0.499		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
8:2 FTS	39108-34-4	<0.587	0.587	0.999		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
PFNS	68259-12-1	<0.827	0.827	0.999		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
MeFOSAA	2355-31-9	<0.403	0.403	0.499		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
EtFOSAA	2991-50-6	<0.379	0.379	0.499		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
PFUnA	2058-94-8	<0.505	0.505	0.999		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
PFDS	335-77-3	<0.242	0.242	0.499		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
11Cl-PF3OUdS	763051-92-9	<0.531	0.531	0.999		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
PFDoA	307-55-1	<0.455	0.455	0.499		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
MeFOSA	31506-32-8	<1.34	1.34	1.50		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
PFTrDA	72629-94-8	<0.405	0.405	0.499		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
PFDoS	79780-39-5	<0.421	0.421	0.499		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
PFTeDA	376-06-7	<0.427	0.427	0.499		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
EtFOSA	4151-50-2	<0.775	0.775	0.999		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
MeFOSE	24448-09-7	<0.619	0.619	0.999		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
EtFOSE	1691-99-2	<0.735	0.735	0.999		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	92.2	25 - 150		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
13C3-PFPeA	IS	95.2	25 - 150		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
13C3-PFBS	IS	95.6	25 - 150		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1

Sample ID: MW-10_(2-4)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 14-Jun-22 08:15

Laboratory Data

Lab Sample: 2206187-06
Date Received: 22-Jun-22 09:54
% Solids: 77.0
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	94.6	25 - 150		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
13C2-PFHxA	IS	93.7	25 - 150		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
13C3-HFPO-DA	IS	95.8	25 - 150		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
13C4-PFHpA	IS	95.0	25 - 150		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
13C3-PFHxS	IS	103	25 - 150		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
13C2-6:2 FTS	IS	118	25 - 150		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
13C2-PFOA	IS	86.4	25 - 150		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
13C5-PFNA	IS	82.8	25 - 150		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
13C8-PFOSA	IS	50.7	10 - 150		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
13C8-PFOS	IS	91.9	25 - 150		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
13C2-PFDA	IS	75.7	25 - 150		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
13C2-8:2 FTS	IS	100	25 - 150		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
d3-MeFOSAA	IS	76.5	25 - 150		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
d5-EtFOSAA	IS	67.4	25 - 150		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
13C2-PFUnA	IS	65.2	25 - 150		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
13C2-PFDoA	IS	74.2	25 - 150		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
d3-MeFOSA	IS	32.4	10 - 150		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
13C2-PFTeDA	IS	83.1	25 - 150		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
d5-EtFOSA	IS	35.4	10 - 150		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
d7-MeFOSE	IS	48.4	10 - 150		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1
d9-EtFOSE	IS	52.6	10 - 150		B22G044	11-Jul-22	1.30 g	14-Jul-22 19:47	1

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.
The sample size is reported in wet weight.
Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-2_(1.5-3.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 14-Jun-22 11:00

Laboratory Data

Lab Sample: 2206187-07
Date Received: 22-Jun-22 09:54
% Solids: 89.7
Column: BEH C18

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.454	0.454	0.493		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
PFPeA	2706-90-3	<0.363	0.363	0.493		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
PFBS	375-73-5	<0.302	0.302	0.493		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
4:2 FTS	757124-72-4	<0.636	0.636	0.987		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
PFHxA	307-24-4	<0.316	0.316	0.493		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
PFPeS	2706-91-4	<0.296	0.296	0.493		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
HFPO-DA	13252-13-6	<0.857	0.857	0.987		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
PFHpA	375-85-9	<0.480	0.480	0.493		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
ADONA	919005-14-4	<0.249	0.249	0.493		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
PFHxS	355-46-4	<0.304	0.304	0.493		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
6:2 FTS	27619-97-2	<0.511	0.511	0.987		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
PFOA	335-67-1	<0.266	0.266	0.493		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
PFHpS	375-92-8	<0.509	0.509	0.987		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
PFNA	375-95-1	<0.367	0.367	0.493		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
PFOSA	754-91-6	<0.565	0.565	0.987		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
PFOS	1763-23-1	0.718	0.640	0.987	J	B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
9Cl-PF3ONS	756426-58-1	<0.324	0.324	0.493		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
PFDA	335-76-2	<0.436	0.436	0.493		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
8:2 FTS	39108-34-4	<0.580	0.580	0.987		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
PFNS	68259-12-1	<0.817	0.817	0.987		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
MeFOSAA	2355-31-9	<0.399	0.399	0.493		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
EtFOSAA	2991-50-6	1.39	0.375	0.493		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
PFUnA	2058-94-8	<0.499	0.499	0.987		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
PFDS	335-77-3	<0.239	0.239	0.493		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
11Cl-PF3OUdS	763051-92-9	<0.525	0.525	0.987		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
PFDoA	307-55-1	<0.450	0.450	0.493		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
MeFOSA	31506-32-8	<1.32	1.32	1.48		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
PFTrDA	72629-94-8	<0.401	0.401	0.493		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
PFDoS	79780-39-5	<0.417	0.417	0.493		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
PFTeDA	376-06-7	<0.422	0.422	0.493		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
EtFOSA	4151-50-2	<0.766	0.766	0.987		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
MeFOSE	24448-09-7	<0.612	0.612	0.987		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
EtFOSE	1691-99-2	<0.726	0.726	0.987		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	93.9	25 - 150		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
13C3-PFPeA	IS	90.1	25 - 150		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
13C3-PFBS	IS	88.8	25 - 150		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1

Sample ID: MW-2_(1.5-3.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 14-Jun-22 11:00

Laboratory Data

Lab Sample: 2206187-07
Date Received: 22-Jun-22 09:54
% Solids: 89.7
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	89.8	25 - 150		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
13C2-PFHxA	IS	92.4	25 - 150		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
13C3-HFPO-DA	IS	92.2	25 - 150		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
13C4-PFHpA	IS	95.2	25 - 150		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
13C3-PFHxS	IS	97.5	25 - 150		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
13C2-6:2 FTS	IS	104	25 - 150		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
13C2-PFOA	IS	86.2	25 - 150		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
13C5-PFNA	IS	80.8	25 - 150		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
13C8-PFOSA	IS	58.9	10 - 150		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
13C8-PFOS	IS	86.0	25 - 150		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
13C2-PFDA	IS	77.1	25 - 150		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
13C2-8:2 FTS	IS	98.8	25 - 150		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
d3-MeFOSAA	IS	76.5	25 - 150		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
d5-EtFOSAA	IS	77.1	25 - 150		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
13C2-PFUnA	IS	69.6	25 - 150		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
13C2-PFDoA	IS	81.0	25 - 150		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
d3-MeFOSA	IS	47.6	10 - 150		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
13C2-PFTeDA	IS	86.8	25 - 150		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
d5-EtFOSA	IS	53.3	10 - 150		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
d7-MeFOSE	IS	56.7	10 - 150		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1
d9-EtFOSE	IS	60.6	10 - 150		B22G044	11-Jul-22	1.13 g	14-Jul-22 19:57	1

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.
The sample size is reported in wet weight.
Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-7_(1.5-3.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 14-Jun-22 11:30

Laboratory Data

Lab Sample: 2206187-08
Date Received: 22-Jun-22 09:54
% Solids: 73.7
Column: BEH C18

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.449	0.449	0.488		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
PFPeA	2706-90-3	<0.359	0.359	0.488		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
PFBS	375-73-5	<0.299	0.299	0.488		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
4:2 FTS	757124-72-4	<0.629	0.629	0.976		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
PFHxA	307-24-4	<0.312	0.312	0.488		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
PFPeS	2706-91-4	<0.293	0.293	0.488		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
HFPO-DA	13252-13-6	<0.847	0.847	0.976		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
PFHpA	375-85-9	<0.475	0.475	0.488		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
ADONA	919005-14-4	<0.246	0.246	0.488		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
PFHxS	355-46-4	<0.301	0.301	0.488		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
6:2 FTS	27619-97-2	0.646	0.506	0.976	J	B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
PFOA	335-67-1	0.435	0.264	0.488	J	B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
PFHpS	375-92-8	<0.504	0.504	0.976		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
PFNA	375-95-1	<0.363	0.363	0.488		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
PFOSA	754-91-6	<0.558	0.558	0.976		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
PFOS	1763-23-1	1.32	0.633	0.976		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
9Cl-PF3ONS	756426-58-1	<0.320	0.320	0.488		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
PFDA	335-76-2	<0.432	0.432	0.488		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
8:2 FTS	39108-34-4	<0.574	0.574	0.976		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
PFNS	68259-12-1	<0.808	0.808	0.976		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
MeFOSAA	2355-31-9	<0.394	0.394	0.488		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
EtFOSAA	2991-50-6	<0.371	0.371	0.488		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
PFUnA	2058-94-8	<0.494	0.494	0.976		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
PFDS	335-77-3	<0.236	0.236	0.488		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
11Cl-PF3OUdS	763051-92-9	<0.519	0.519	0.976		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
PFDoA	307-55-1	<0.445	0.445	0.488		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
MeFOSA	31506-32-8	<1.31	1.31	1.46		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
PFTrDA	72629-94-8	<0.396	0.396	0.488		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
PFDoS	79780-39-5	<0.412	0.412	0.488		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
PFTeDA	376-06-7	<0.418	0.418	0.488		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
EtFOSA	4151-50-2	<0.758	0.758	0.976		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
MeFOSE	24448-09-7	<0.605	0.605	0.976		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
EtFOSE	1691-99-2	<0.719	0.719	0.976		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	91.5	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
13C3-PFPeA	IS	90.9	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
13C3-PFBS	IS	97.1	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1

Sample ID: MW-7_(1.5-3.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 14-Jun-22 11:30

Laboratory Data

Lab Sample: 2206187-08
Date Received: 22-Jun-22 09:54
% Solids: 73.7
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	91.6	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
13C2-PFHxA	IS	92.2	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
13C3-HFPO-DA	IS	91.5	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
13C4-PFHpA	IS	91.9	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
13C3-PFHxS	IS	97.1	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
13C2-6:2 FTS	IS	104	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
13C2-PFOA	IS	87.5	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
13C5-PFNA	IS	81.4	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
13C8-PFOSA	IS	51.5	10 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
13C8-PFOS	IS	91.7	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
13C2-PFDA	IS	74.6	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
13C2-8:2 FTS	IS	99.8	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
d3-MeFOSAA	IS	68.9	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
d5-EtFOSAA	IS	74.7	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
13C2-PFUnA	IS	66.4	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
13C2-PFDoA	IS	73.1	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
d3-MeFOSA	IS	39.8	10 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
13C2-PFTeDA	IS	83.0	25 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
d5-EtFOSA	IS	38.1	10 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
d7-MeFOSE	IS	49.4	10 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1
d9-EtFOSE	IS	55.3	10 - 150		B22G044	11-Jul-22	1.39 g	14-Jul-22 20:08	1

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.
The sample size is reported in wet weight.
Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-11_(1.5-3.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 14-Jun-22 12:10

Laboratory Data

Lab Sample: 2206187-09
Date Received: 22-Jun-22 09:54
% Solids: 84.2
Column: BEH C18

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.455	0.455	0.495		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
PFPeA	2706-90-3	<0.364	0.364	0.495		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
PFBS	375-73-5	<0.303	0.303	0.495		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
4:2 FTS	757124-72-4	<0.638	0.638	0.990		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
PFHxA	307-24-4	<0.317	0.317	0.495		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
PFPeS	2706-91-4	<0.297	0.297	0.495		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
HFPO-DA	13252-13-6	<0.859	0.859	0.990		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
PFHpA	375-85-9	<0.481	0.481	0.495		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
ADONA	919005-14-4	<0.250	0.250	0.495		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
PFHxS	355-46-4	<0.305	0.305	0.495		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
6:2 FTS	27619-97-2	<0.513	0.513	0.990		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
PFOA	335-67-1	<0.267	0.267	0.495		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
PFHpS	375-92-8	<0.511	0.511	0.990		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
PFNA	375-95-1	<0.368	0.368	0.495		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
PFOSA	754-91-6	<0.566	0.566	0.990		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
PFOS	1763-23-1	<0.642	0.642	0.990		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
9Cl-PF3ONS	756426-58-1	<0.325	0.325	0.495		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
PFDA	335-76-2	<0.438	0.438	0.495		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
8:2 FTS	39108-34-4	<0.582	0.582	0.990		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
PFNS	68259-12-1	<0.820	0.820	0.990		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
MeFOSAA	2355-31-9	<0.400	0.400	0.495		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
EtFOSAA	2991-50-6	<0.376	0.376	0.495		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
PFUnA	2058-94-8	<0.501	0.501	0.990		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
PFDS	335-77-3	<0.240	0.240	0.495		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
11Cl-PF3OUdS	763051-92-9	<0.527	0.527	0.990		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
PFDoA	307-55-1	<0.452	0.452	0.495		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
MeFOSA	31506-32-8	<1.32	1.32	1.49		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
PFTrDA	72629-94-8	<0.402	0.402	0.495		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
PFDoS	79780-39-5	<0.418	0.418	0.495		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
PFTeDA	376-06-7	<0.424	0.424	0.495		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
EtFOSA	4151-50-2	<0.768	0.768	0.990		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
MeFOSE	24448-09-7	<0.614	0.614	0.990		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
EtFOSE	1691-99-2	<0.729	0.729	0.990		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	91.8	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
13C3-PFPeA	IS	90.9	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
13C3-PFBS	IS	94.7	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1

Sample ID: MW-11_(1.5-3.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 14-Jun-22 12:10

Laboratory Data

Lab Sample: 2206187-09
Date Received: 22-Jun-22 09:54
% Solids: 84.2
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	96.9	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
13C2-PFHxA	IS	89.6	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
13C3-HFPO-DA	IS	90.9	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
13C4-PFHpA	IS	90.2	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
13C3-PFHxS	IS	94.1	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
13C2-6:2 FTS	IS	94.9	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
13C2-PFOA	IS	84.6	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
13C5-PFNA	IS	80.4	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
13C8-PFOSA	IS	57.0	10 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
13C8-PFOS	IS	87.2	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
13C2-PFDA	IS	70.0	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
13C2-8:2 FTS	IS	91.7	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
d3-MeFOSAA	IS	70.5	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
d5-EtFOSAA	IS	68.8	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
13C2-PFUnA	IS	64.2	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
13C2-PFDoA	IS	71.0	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
d3-MeFOSA	IS	34.4	10 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
13C2-PFTeDA	IS	77.6	25 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
d5-EtFOSA	IS	33.8	10 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
d7-MeFOSE	IS	46.7	10 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1
d9-EtFOSE	IS	51.6	10 - 150		B22G044	11-Jul-22	1.20 g	14-Jul-22 20:18	1

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.
The sample size is reported in wet weight.
Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-3_(1.5-3.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 14-Jun-22 14:30

Laboratory Data

Lab Sample: 2206187-10
Date Received: 22-Jun-22 09:54
% Solids: 80.5
Column: BEH C18

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.454	0.454	0.493		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
PFPeA	2706-90-3	<0.363	0.363	0.493		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
PFBS	375-73-5	<0.302	0.302	0.493		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
4:2 FTS	757124-72-4	<0.635	0.635	0.986		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
PFHxA	307-24-4	<0.316	0.316	0.493		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
PFPeS	2706-91-4	<0.296	0.296	0.493		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
HFPO-DA	13252-13-6	<0.856	0.856	0.986		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
PFHpA	375-85-9	<0.479	0.479	0.493		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
ADONA	919005-14-4	<0.249	0.249	0.493		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
PFHxS	355-46-4	<0.304	0.304	0.493		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
6:2 FTS	27619-97-2	<0.511	0.511	0.986		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
PFOA	335-67-1	<0.266	0.266	0.493		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
PFHpS	375-92-8	<0.509	0.509	0.986		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
PFNA	375-95-1	<0.367	0.367	0.493		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
PFOSA	754-91-6	<0.564	0.564	0.986		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
PFOS	1763-23-1	1.48	0.639	0.986		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
9Cl-PF3ONS	756426-58-1	<0.323	0.323	0.493		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
PFDA	335-76-2	<0.436	0.436	0.493		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
8:2 FTS	39108-34-4	<0.580	0.580	0.986		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
PFNS	68259-12-1	<0.817	0.817	0.986		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
MeFOSAA	2355-31-9	<0.398	0.398	0.493		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
EtFOSAA	2991-50-6	<0.375	0.375	0.493		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
PFUnA	2058-94-8	<0.499	0.499	0.986		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
PFDS	335-77-3	<0.239	0.239	0.493		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
11Cl-PF3OUdS	763051-92-9	<0.525	0.525	0.986		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
PFDoA	307-55-1	<0.450	0.450	0.493		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
MeFOSA	31506-32-8	<1.32	1.32	1.48		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
PFTrDA	72629-94-8	<0.400	0.400	0.493		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
PFDoS	79780-39-5	<0.416	0.416	0.493		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
PFTeDA	376-06-7	<0.422	0.422	0.493		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
EtFOSA	4151-50-2	<0.765	0.765	0.986		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
MeFOSE	24448-09-7	<0.611	0.611	0.986		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
EtFOSE	1691-99-2	<0.726	0.726	0.986		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	91.6	25 - 150		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
13C3-PFPeA	IS	89.9	25 - 150		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
13C3-PFBS	IS	89.4	25 - 150		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1

Sample ID: MW-3_(1.5-3.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 14-Jun-22 14:30

Laboratory Data

Lab Sample: 2206187-10
Date Received: 22-Jun-22 09:54
% Solids: 80.5
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	92.5	25 - 150		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
13C2-PFHxA	IS	94.2	25 - 150		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
13C3-HFPO-DA	IS	89.2	25 - 150		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
13C4-PFHpA	IS	91.0	25 - 150		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
13C3-PFHxS	IS	91.7	25 - 150		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
13C2-6:2 FTS	IS	93.5	25 - 150		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
13C2-PFOA	IS	87.4	25 - 150		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
13C5-PFNA	IS	80.4	25 - 150		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
13C8-PFOSA	IS	54.6	10 - 150		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
13C8-PFOS	IS	84.0	25 - 150		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
13C2-PFDA	IS	72.3	25 - 150		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
13C2-8:2 FTS	IS	97.1	25 - 150		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
d3-MeFOSAA	IS	70.7	25 - 150		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
d5-EtFOSAA	IS	76.7	25 - 150		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
13C2-PFUnA	IS	69.8	25 - 150		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
13C2-PFDoA	IS	71.3	25 - 150		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
d3-MeFOSA	IS	41.5	10 - 150		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
13C2-PFTeDA	IS	77.5	25 - 150		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
d5-EtFOSA	IS	41.9	10 - 150		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
d7-MeFOSE	IS	45.6	10 - 150		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1
d9-EtFOSE	IS	50.0	10 - 150		B22G044	11-Jul-22	1.26 g	14-Jul-22 20:28	1

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.
The sample size is reported in wet weight.
Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-6_(1.5-3.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 14-Jun-22 12:40

Laboratory Data

Lab Sample: 2206187-11
Date Received: 22-Jun-22 09:54
% Solids: 81.7
Column: BEH C18

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.451	0.451	0.490		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
PFPeA	2706-90-3	<0.360	0.360	0.490		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
PFBS	375-73-5	<0.300	0.300	0.490		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
4:2 FTS	757124-72-4	<0.631	0.631	0.979		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
PFHxA	307-24-4	<0.313	0.313	0.490		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
PFPeS	2706-91-4	<0.294	0.294	0.490		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
HFPO-DA	13252-13-6	<0.850	0.850	0.979		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
PFHpA	375-85-9	<0.476	0.476	0.490		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
ADONA	919005-14-4	<0.247	0.247	0.490		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
PFHxS	355-46-4	0.315	0.302	0.490	J	B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
6:2 FTS	27619-97-2	<0.507	0.507	0.979		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
PFOA	335-67-1	0.855	0.264	0.490		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
PFHpS	375-92-8	<0.505	0.505	0.979		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
PFNA	375-95-1	<0.364	0.364	0.490		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
PFOSA	754-91-6	<0.560	0.560	0.979		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
PFOS	1763-23-1	3.94	0.635	0.979		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
9Cl-PF3ONS	756426-58-1	<0.321	0.321	0.490		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
PFDA	335-76-2	<0.433	0.433	0.490		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
8:2 FTS	39108-34-4	<0.576	0.576	0.979		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
PFNS	68259-12-1	<0.811	0.811	0.979		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
MeFOSAA	2355-31-9	<0.396	0.396	0.490		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
EtFOSAA	2991-50-6	1.91	0.372	0.490		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
PFUnA	2058-94-8	<0.496	0.496	0.979		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
PFDS	335-77-3	<0.237	0.237	0.490		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
11Cl-PF3OUdS	763051-92-9	<0.521	0.521	0.979		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
PFDoA	307-55-1	<0.447	0.447	0.490		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
MeFOSA	31506-32-8	<1.31	1.31	1.47		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
PFTrDA	72629-94-8	<0.398	0.398	0.490		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
PFDoS	79780-39-5	<0.413	0.413	0.490		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
PFTeDA	376-06-7	<0.419	0.419	0.490		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
EtFOSA	4151-50-2	<0.760	0.760	0.979		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
MeFOSE	24448-09-7	<0.607	0.607	0.979		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
EtFOSE	1691-99-2	<0.721	0.721	0.979		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	88.0	25 - 150		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
13C3-PFPeA	IS	87.1	25 - 150		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
13C3-PFBS	IS	94.4	25 - 150		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1

Sample ID: MW-6_(1.5-3.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 14-Jun-22 12:40

Laboratory Data

Lab Sample: 2206187-11
Date Received: 22-Jun-22 09:54
% Solids: 81.7
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	87.2	25 - 150		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
13C2-PFHxA	IS	88.9	25 - 150		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
13C3-HFPO-DA	IS	89.9	25 - 150		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
13C4-PFHpA	IS	88.1	25 - 150		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
13C3-PFHxS	IS	91.5	25 - 150		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
13C2-6:2 FTS	IS	81.1	25 - 150		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
13C2-PFOA	IS	83.3	25 - 150		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
13C5-PFNA	IS	73.8	25 - 150		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
13C8-PFOSA	IS	61.2	10 - 150		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
13C8-PFOS	IS	80.1	25 - 150		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
13C2-PFDA	IS	75.8	25 - 150		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
13C2-8:2 FTS	IS	92.2	25 - 150		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
d3-MeFOSAA	IS	62.6	25 - 150		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
d5-EtFOSAA	IS	62.2	25 - 150		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
13C2-PFUnA	IS	67.5	25 - 150		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
13C2-PFDoA	IS	64.6	25 - 150		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
d3-MeFOSA	IS	44.8	10 - 150		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
13C2-PFTeDA	IS	50.1	25 - 150		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
d5-EtFOSA	IS	47.6	10 - 150		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
d7-MeFOSE	IS	59.9	10 - 150		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1
d9-EtFOSE	IS	66.3	10 - 150		B22G044	11-Jul-22	1.25 g	14-Jul-22 20:39	1

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.
The sample size is reported in wet weight.
Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-15_(1.5-3.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 14-Jun-22 13:30

Laboratory Data

Lab Sample: 2206187-12
Date Received: 22-Jun-22 09:54
% Solids: 86.2
Column: BEH C18

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.456	0.456	0.496		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
PFPeA	2706-90-3	<0.365	0.365	0.496		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
PFBS	375-73-5	<0.303	0.303	0.496		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
4:2 FTS	757124-72-4	<0.638	0.638	0.991		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
PFHxA	307-24-4	<0.317	0.317	0.496		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
PFPeS	2706-91-4	<0.297	0.297	0.496		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
HFPO-DA	13252-13-6	<0.861	0.861	0.991		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
PFHpA	375-85-9	<0.482	0.482	0.496		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
ADONA	919005-14-4	<0.250	0.250	0.496		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
PFHxS	355-46-4	<0.305	0.305	0.496		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
6:2 FTS	27619-97-2	1.25	0.514	0.991		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
PFOA	335-67-1	0.372	0.268	0.496	J	B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
PFHpS	375-92-8	<0.512	0.512	0.991		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
PFNA	375-95-1	<0.369	0.369	0.496		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
PFOSA	754-91-6	<0.567	0.567	0.991		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
PFOS	1763-23-1	1.73	0.642	0.991		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
9Cl-PF3ONS	756426-58-1	<0.325	0.325	0.496		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
PFDA	335-76-2	<0.438	0.438	0.496		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
8:2 FTS	39108-34-4	<0.583	0.583	0.991		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
PFNS	68259-12-1	<0.821	0.821	0.991		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
MeFOSAA	2355-31-9	<0.401	0.401	0.496		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
EtFOSAA	2991-50-6	<0.377	0.377	0.496		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
PFUnA	2058-94-8	<0.502	0.502	0.991		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
PFDS	335-77-3	<0.240	0.240	0.496		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
11Cl-PF3OUdS	763051-92-9	<0.527	0.527	0.991		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
PFDoA	307-55-1	<0.452	0.452	0.496		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
MeFOSA	31506-32-8	<1.33	1.33	1.49		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
PFTrDA	72629-94-8	<0.403	0.403	0.496		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
PFDoS	79780-39-5	<0.418	0.418	0.496		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
PFTeDA	376-06-7	<0.424	0.424	0.496		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
EtFOSA	4151-50-2	<0.769	0.769	0.991		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
MeFOSE	24448-09-7	<0.615	0.615	0.991		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
EtFOSE	1691-99-2	<0.730	0.730	0.991		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	92.3	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
13C3-PFPeA	IS	93.9	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
13C3-PFBS	IS	94.5	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1

Sample ID: MW-15_(1.5-3.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 14-Jun-22 13:30

Laboratory Data

Lab Sample: 2206187-12
Date Received: 22-Jun-22 09:54
% Solids: 86.2
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	96.9	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
13C2-PFHxA	IS	98.0	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
13C3-HFPO-DA	IS	90.9	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
13C4-PFHpA	IS	92.8	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
13C3-PFHxS	IS	98.8	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
13C2-6:2 FTS	IS	107	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
13C2-PFOA	IS	89.3	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
13C5-PFNA	IS	77.0	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
13C8-PFOSA	IS	54.8	10 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
13C8-PFOS	IS	84.6	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
13C2-PFDA	IS	72.5	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
13C2-8:2 FTS	IS	104	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
d3-MeFOSAA	IS	69.6	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
d5-EtFOSAA	IS	72.1	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
13C2-PFUnA	IS	66.8	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
13C2-PFDoA	IS	75.2	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
d3-MeFOSA	IS	39.5	10 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
13C2-PFTeDA	IS	79.6	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
d5-EtFOSA	IS	39.9	10 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
d7-MeFOSE	IS	52.8	10 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1
d9-EtFOSE	IS	60.8	10 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 20:49	1

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.
The sample size is reported in wet weight.
Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-16_(1.5-3.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 14-Jun-22 15:15

Laboratory Data

Lab Sample: 2206187-13
Date Received: 22-Jun-22 09:54
% Solids: 92.9
Column: BEH C18

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	0.769	0.446	0.485		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
PFPeA	2706-90-3	7.94	0.357	0.485		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
PFBS	375-73-5	<0.297	0.297	0.485		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
4:2 FTS	757124-72-4	<0.624	0.624	0.969		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
PFHxA	307-24-4	4.43	0.310	0.485		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
PFPeS	2706-91-4	<0.291	0.291	0.485		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
HFPO-DA	13252-13-6	<0.842	0.842	0.969		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
PFHpA	375-85-9	0.501	0.471	0.485		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
ADONA	919005-14-4	<0.244	0.244	0.485		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
PFHxS	355-46-4	<0.299	0.299	0.485		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
6:2 FTS	27619-97-2	<0.502	0.502	0.969		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
PFOA	335-67-1	<0.262	0.262	0.485		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
PFHpS	375-92-8	<0.500	0.500	0.969		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
PFNA	375-95-1	<0.361	0.361	0.485		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
PFOSA	754-91-6	<0.555	0.555	0.969		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
PFOS	1763-23-1	<0.628	0.628	0.969		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
9Cl-PF3ONS	756426-58-1	<0.318	0.318	0.485		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
PFDA	335-76-2	<0.429	0.429	0.485		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
8:2 FTS	39108-34-4	<0.570	0.570	0.969		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
PFNS	68259-12-1	<0.803	0.803	0.969		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
MeFOSAA	2355-31-9	<0.392	0.392	0.485		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
EtFOSAA	2991-50-6	<0.368	0.368	0.485		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
PFUnA	2058-94-8	<0.491	0.491	0.969		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
PFDS	335-77-3	<0.235	0.235	0.485		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
11Cl-PF3OUdS	763051-92-9	<0.516	0.516	0.969		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
PFDoA	307-55-1	<0.442	0.442	0.485		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
MeFOSA	31506-32-8	<1.30	1.30	1.45		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
PFTrDA	72629-94-8	<0.394	0.394	0.485		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
PFDoS	79780-39-5	<0.409	0.409	0.485		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
PFTeDA	376-06-7	<0.415	0.415	0.485		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
EtFOSA	4151-50-2	<0.752	0.752	0.969		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
MeFOSE	24448-09-7	<0.601	0.601	0.969		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
EtFOSE	1691-99-2	<0.714	0.714	0.969		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	95.4	25 - 150		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
13C3-PFPeA	IS	93.7	25 - 150		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
13C3-PFBS	IS	96.0	25 - 150		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1

Sample ID: MW-16_(1.5-3.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 14-Jun-22 15:15

Laboratory Data

Lab Sample: 2206187-13
Date Received: 22-Jun-22 09:54
% Solids: 92.9
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	90.0	25 - 150		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
13C2-PFHxA	IS	95.1	25 - 150		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
13C3-HFPO-DA	IS	93.5	25 - 150		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
13C4-PFHpA	IS	97.5	25 - 150		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
13C3-PFHxS	IS	96.8	25 - 150		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
13C2-6:2 FTS	IS	99.7	25 - 150		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
13C2-PFOA	IS	87.2	25 - 150		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
13C5-PFNA	IS	79.3	25 - 150		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
13C8-PFOSA	IS	58.6	10 - 150		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
13C8-PFOS	IS	88.9	25 - 150		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
13C2-PFDA	IS	69.9	25 - 150		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
13C2-8:2 FTS	IS	93.7	25 - 150		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
d3-MeFOSAA	IS	78.3	25 - 150		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
d5-EtFOSAA	IS	79.8	25 - 150		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
13C2-PFUnA	IS	74.7	25 - 150		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
13C2-PFDoA	IS	85.4	25 - 150		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
d3-MeFOSA	IS	44.7	10 - 150		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
13C2-PFTeDA	IS	86.5	25 - 150		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
d5-EtFOSA	IS	51.0	10 - 150		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
d7-MeFOSE	IS	56.8	10 - 150		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1
d9-EtFOSE	IS	61.7	10 - 150		B22G044	11-Jul-22	1.11 g	14-Jul-22 21:31	1

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.
The sample size is reported in wet weight.
Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-12_(1.5-3.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 15-Jun-22 09:00

Laboratory Data

Lab Sample: 2206187-14
Date Received: 22-Jun-22 09:54
% Solids: 76.6
Column: BEH C18

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.451	0.451	0.491		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
PFPeA	2706-90-3	0.367	0.361	0.491	J	B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
PFBS	375-73-5	<0.300	0.300	0.491		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
4:2 FTS	757124-72-4	<0.632	0.632	0.981		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
PFHxA	307-24-4	0.317	0.314	0.491	J	B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
PFPeS	2706-91-4	<0.294	0.294	0.491		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
HFPO-DA	13252-13-6	<0.852	0.852	0.981		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
PFHpA	375-85-9	<0.477	0.477	0.491		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
ADONA	919005-14-4	<0.247	0.247	0.491		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
PFHxS	355-46-4	1.66	0.302	0.491	Q	B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
6:2 FTS	27619-97-2	0.583	0.508	0.981	J	B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
PFOA	335-67-1	1.09	0.265	0.491		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
PFHpS	375-92-8	<0.506	0.506	0.981		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
PFNA	375-95-1	0.502	0.365	0.491		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
PFOSA	754-91-6	<0.561	0.561	0.981		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
PFOS	1763-23-1	9.61	0.636	0.981		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
9Cl-PF3ONS	756426-58-1	<0.322	0.322	0.491		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
PFDA	335-76-2	<0.434	0.434	0.491		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
8:2 FTS	39108-34-4	<0.577	0.577	0.981		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
PFNS	68259-12-1	<0.812	0.812	0.981		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
MeFOSAA	2355-31-9	<0.396	0.396	0.491		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
EtFOSAA	2991-50-6	<0.373	0.373	0.491		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
PFUnA	2058-94-8	<0.497	0.497	0.981		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
PFDS	335-77-3	<0.237	0.237	0.491		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
11Cl-PF3OUdS	763051-92-9	<0.522	0.522	0.981		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
PFDoA	307-55-1	<0.447	0.447	0.491		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
MeFOSA	31506-32-8	<1.31	1.31	1.47		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
PFTrDA	72629-94-8	<0.398	0.398	0.491		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
PFDoS	79780-39-5	<0.414	0.414	0.491		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
PFTeDA	376-06-7	<0.420	0.420	0.491		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
EtFOSA	4151-50-2	<0.761	0.761	0.981		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
MeFOSE	24448-09-7	<0.608	0.608	0.981		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
EtFOSE	1691-99-2	<0.722	0.722	0.981		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	90.4	25 - 150		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
13C3-PFPeA	IS	90.4	25 - 150		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
13C3-PFBS	IS	93.3	25 - 150		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1

Sample ID: MW-12_(1.5-3.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 15-Jun-22 09:00

Laboratory Data

Lab Sample: 2206187-14
Date Received: 22-Jun-22 09:54
% Solids: 76.6
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	88.9	25 - 150		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
13C2-PFHxA	IS	91.3	25 - 150		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
13C3-HFPO-DA	IS	92.3	25 - 150		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
13C4-PFHpA	IS	92.1	25 - 150		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
13C3-PFHxS	IS	102	25 - 150		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
13C2-6:2 FTS	IS	95.6	25 - 150		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
13C2-PFOA	IS	86.8	25 - 150		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
13C5-PFNA	IS	73.4	25 - 150		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
13C8-PFOSA	IS	54.7	10 - 150		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
13C8-PFOS	IS	82.1	25 - 150		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
13C2-PFDA	IS	71.7	25 - 150		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
13C2-8:2 FTS	IS	91.1	25 - 150		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
d3-MeFOSAA	IS	73.9	25 - 150		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
d5-EtFOSAA	IS	73.4	25 - 150		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
13C2-PFUnA	IS	71.4	25 - 150		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
13C2-PFDoA	IS	85.4	25 - 150		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
d3-MeFOSA	IS	46.8	10 - 150		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
13C2-PFTeDA	IS	84.9	25 - 150		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
d5-EtFOSA	IS	52.7	10 - 150		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
d7-MeFOSE	IS	49.0	10 - 150		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1
d9-EtFOSE	IS	56.2	10 - 150		B22G044	11-Jul-22	1.33 g	14-Jul-22 21:41	1

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.
The sample size is reported in wet weight.
Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-8_(1.5-3.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 15-Jun-22 09:50

Laboratory Data

Lab Sample: 2206187-15
Date Received: 22-Jun-22 09:54
% Solids: 88.9
Column: BEH C18

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.442	0.442	0.481		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
PFPeA	2706-90-3	<0.354	0.354	0.481		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
PFBS	375-73-5	<0.294	0.294	0.481		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
4:2 FTS	757124-72-4	<0.619	0.619	0.962		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
PFHxA	307-24-4	<0.308	0.308	0.481		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
PFPeS	2706-91-4	<0.288	0.288	0.481		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
HFPO-DA	13252-13-6	<0.835	0.835	0.962		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
PFHpA	375-85-9	<0.467	0.467	0.481		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
ADONA	919005-14-4	<0.242	0.242	0.481		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
PFHxS	355-46-4	0.364	0.296	0.481	J, Q	B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
6:2 FTS	27619-97-2	<0.498	0.498	0.962		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
PFOA	335-67-1	<0.260	0.260	0.481		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
PFHpS	375-92-8	<0.496	0.496	0.962		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
PFNA	375-95-1	<0.358	0.358	0.481		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
PFOSA	754-91-6	<0.550	0.550	0.962		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
PFOS	1763-23-1	4.35	0.623	0.962		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
9Cl-PF3ONS	756426-58-1	<0.315	0.315	0.481		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
PFDA	335-76-2	<0.425	0.425	0.481		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
8:2 FTS	39108-34-4	<0.565	0.565	0.962		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
PFNS	68259-12-1	<0.796	0.796	0.962		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
MeFOSAA	2355-31-9	<0.388	0.388	0.481		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
EtFOSAA	2991-50-6	<0.365	0.365	0.481		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
PFUnA	2058-94-8	<0.487	0.487	0.962		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
PFDS	335-77-3	<0.233	0.233	0.481		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
11Cl-PF3OUdS	763051-92-9	<0.512	0.512	0.962		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
PFDoA	307-55-1	<0.438	0.438	0.481		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
MeFOSA	31506-32-8	<1.29	1.29	1.44		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
PFTrDA	72629-94-8	<0.390	0.390	0.481		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
PFDoS	79780-39-5	<0.406	0.406	0.481		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
PFTeDA	376-06-7	<0.412	0.412	0.481		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
EtFOSA	4151-50-2	<0.746	0.746	0.962		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
MeFOSE	24448-09-7	<0.596	0.596	0.962		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
EtFOSE	1691-99-2	<0.708	0.708	0.962		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	85.5	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
13C3-PFPeA	IS	87.5	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
13C3-PFBS	IS	82.4	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1

Sample ID: MW-8_(1.5-3.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 15-Jun-22 09:50

Laboratory Data

Lab Sample: 2206187-15
Date Received: 22-Jun-22 09:54
% Solids: 88.9
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	92.2	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
13C2-PFHxA	IS	86.2	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
13C3-HFPO-DA	IS	86.0	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
13C4-PFHpA	IS	89.7	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
13C3-PFHxS	IS	93.4	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
13C2-6:2 FTS	IS	94.4	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
13C2-PFOA	IS	79.7	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
13C5-PFNA	IS	70.6	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
13C8-PFOSA	IS	52.9	10 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
13C8-PFOS	IS	76.1	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
13C2-PFDA	IS	65.6	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
13C2-8:2 FTS	IS	98.3	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
d3-MeFOSAA	IS	66.3	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
d5-EtFOSAA	IS	68.3	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
13C2-PFUnA	IS	68.9	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
13C2-PFDoA	IS	77.3	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
d3-MeFOSA	IS	37.2	10 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
13C2-PFTeDA	IS	82.0	25 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
d5-EtFOSA	IS	37.7	10 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
d7-MeFOSE	IS	45.1	10 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1
d9-EtFOSE	IS	53.7	10 - 150		B22G044	11-Jul-22	1.17 g	14-Jul-22 21:52	1

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.
The sample size is reported in wet weight.
Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-4_(1.5-3.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 15-Jun-22 11:30

Laboratory Data

Lab Sample: 2206187-17
Date Received: 22-Jun-22 09:54
% Solids: 63.1
Column: BEH C18

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.456	0.456	0.495		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
PFPeA	2706-90-3	<0.365	0.365	0.495		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
PFBS	375-73-5	<0.303	0.303	0.495		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
4:2 FTS	757124-72-4	<0.638	0.638	0.991		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
PFHxA	307-24-4	<0.317	0.317	0.495		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
PFPeS	2706-91-4	<0.297	0.297	0.495		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
HFPO-DA	13252-13-6	<0.860	0.860	0.991		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
PFHpA	375-85-9	<0.482	0.482	0.495		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
ADONA	919005-14-4	<0.250	0.250	0.495		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
PFHxS	355-46-4	<0.305	0.305	0.495		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
6:2 FTS	27619-97-2	0.658	0.513	0.991	J	B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
PFOA	335-67-1	0.281	0.268	0.495	J	B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
PFHpS	375-92-8	<0.511	0.511	0.991		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
PFNA	375-95-1	<0.369	0.369	0.495		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
PFOSA	754-91-6	<0.567	0.567	0.991		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
PFOS	1763-23-1	2.82	0.642	0.991		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
9Cl-PF3ONS	756426-58-1	<0.325	0.325	0.495		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
PFDA	335-76-2	<0.438	0.438	0.495		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
8:2 FTS	39108-34-4	0.616	0.583	0.991	J, Q	B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
PFNS	68259-12-1	<0.820	0.820	0.991		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
MeFOSAA	2355-31-9	<0.400	0.400	0.495		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
EtFOSAA	2991-50-6	<0.376	0.376	0.495		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
PFUnA	2058-94-8	<0.501	0.501	0.991		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
PFDS	335-77-3	<0.240	0.240	0.495		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
11Cl-PF3OUdS	763051-92-9	<0.527	0.527	0.991		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
PFDoA	307-55-1	<0.452	0.452	0.495		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
MeFOSA	31506-32-8	<1.33	1.33	1.49		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
PFTrDA	72629-94-8	<0.402	0.402	0.495		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
PFDoS	79780-39-5	<0.418	0.418	0.495		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
PFTeDA	376-06-7	<0.424	0.424	0.495		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
EtFOSA	4151-50-2	<0.769	0.769	0.991		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
MeFOSE	24448-09-7	<0.614	0.614	0.991		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
EtFOSE	1691-99-2	<0.729	0.729	0.991		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	90.9	25 - 150		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
13C3-PFPeA	IS	86.7	25 - 150		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
13C3-PFBS	IS	89.8	25 - 150		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1

Sample ID: MW-4_(1.5-3.5)

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Soil
Date Collected: 15-Jun-22 11:30

Laboratory Data

Lab Sample: 2206187-17
Date Received: 22-Jun-22 09:54
% Solids: 63.1
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	84.9	25 - 150		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
13C2-PFHxA	IS	89.5	25 - 150		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
13C3-HFPO-DA	IS	89.6	25 - 150		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
13C4-PFHpA	IS	91.8	25 - 150		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
13C3-PFHxS	IS	90.3	25 - 150		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
13C2-6:2 FTS	IS	97.5	25 - 150		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
13C2-PFOA	IS	87.0	25 - 150		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
13C5-PFNA	IS	79.7	25 - 150		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
13C8-PFOSA	IS	51.6	10 - 150		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
13C8-PFOS	IS	84.0	25 - 150		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
13C2-PFDA	IS	70.7	25 - 150		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
13C2-8:2 FTS	IS	99.5	25 - 150		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
d3-MeFOSAA	IS	75.4	25 - 150		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
d5-EtFOSAA	IS	73.0	25 - 150		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
13C2-PFUnA	IS	68.6	25 - 150		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
13C2-PFDoA	IS	75.3	25 - 150		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
d3-MeFOSA	IS	29.1	10 - 150		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
13C2-PFTeDA	IS	81.5	25 - 150		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
d5-EtFOSA	IS	32.5	10 - 150		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
d7-MeFOSE	IS	47.1	10 - 150		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1
d9-EtFOSE	IS	58.4	10 - 150		B22G044	11-Jul-22	1.60 g	14-Jul-22 22:02	1

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.
The sample size is reported in wet weight.
Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: Method Blank

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Aqueous

Laboratory Data

Lab Sample: B22F206-BLK1
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<1.01	1.01	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
PFPeA	2706-90-3	<0.755	0.755	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
PFBS	375-73-5	<0.905	0.905	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
4:2 FTS	757124-72-4	<0.950	0.950	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
PFHxA	307-24-4	<0.815	0.815	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
PFPeS	2706-91-4	<0.820	0.820	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
HFPO-DA	13252-13-6	<1.57	1.57	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
PFHpA	375-85-9	<0.935	0.935	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
ADONA	919005-14-4	<0.640	0.640	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
PFHxS	355-46-4	<1.03	1.03	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
6:2 FTS	27619-97-2	<1.13	1.13	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
PFOA	335-67-1	<0.955	0.955	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
PFHpS	375-92-8	<0.595	0.595	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
PFNA	375-95-1	<0.755	0.755	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
PFOSA	754-91-6	<1.09	1.09	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
PFOS	1763-23-1	<1.13	1.13	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
9Cl-PF3ONS	756426-58-1	<1.07	1.07	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
PFDA	335-76-2	<0.945	0.945	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
8:2 FTS	39108-34-4	<1.14	1.14	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
PFNS	68259-12-1	<1.16	1.16	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
MeFOSAA	2355-31-9	<0.950	0.950	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
EtFOSAA	2991-50-6	<1.04	1.04	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
PFUnA	2058-94-8	<0.755	0.755	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
PFDS	335-77-3	<0.760	0.760	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
11Cl-PF3OUdS	763051-92-9	<0.990	0.990	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
PFDoA	307-55-1	<0.975	0.975	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
MeFOSA	31506-32-8	<2.24	2.24	2.50		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
PFTrDA	72629-94-8	<0.655	0.655	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
PFDoS	79780-39-5	<1.42	1.42	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
PFTeDA	376-06-7	<0.815	0.815	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
EtFOSA	4151-50-2	<2.33	2.33	2.50		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
MeFOSE	24448-09-7	<2.00	2.00	2.50		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
EtFOSE	1691-99-2	<1.57	1.57	2.00		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	110	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
13C3-PFPeA	IS	107	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
13C3-PFBS	IS	104	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
13C2-4:2 FTS	IS	94.1	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1

Sample ID: Method Blank

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Aqueous

Laboratory Data

Lab Sample: B22F206-BLK1
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	IS	105	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
13C3-HFPO-DA	IS	104	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
13C4-PFHpA	IS	106	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
13C3-PFHxS	IS	98.6	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
13C2-6:2 FTS	IS	110	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
13C2-PFOA	IS	105	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
13C5-PFNA	IS	110	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
13C8-PFOSA	IS	54.4	10 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
13C8-PFOS	IS	106	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
13C2-PFDA	IS	97.9	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
13C2-8:2 FTS	IS	93.1	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
d3-MeFOSAA	IS	87.7	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
d5-EtFOSAA	IS	80.5	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
13C2-PFUnA	IS	91.3	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
13C2-PFDoA	IS	84.3	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
d3-MeFOSA	IS	21.1	10 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
13C2-PFTeDA	IS	89.2	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
d5-EtFOSA	IS	20.5	10 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
d7-MeFOSE	IS	35.6	10 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1
d9-EtFOSE	IS	36.5	10 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:23	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OPR **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Aqueous

Laboratory Data

Lab Sample: B22F206-BS1
Column: BEH C18

Analyte	CAS Number	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	3.90	4.00	97.4	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
PFPeA	2706-90-3	3.69	4.00	92.2	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
PFBS	375-73-5	3.43	4.00	85.8	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
4:2 FTS	757124-72-4	3.48	4.00	86.9	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
PFHxA	307-24-4	3.32	4.00	83.1	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
PFPeS	2706-91-4	3.54	4.00	88.4	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
HFPO-DA	13252-13-6	3.51	4.00	87.6	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
PFHpA	375-85-9	3.98	4.00	99.6	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
ADONA	919005-14-4	3.89	4.00	97.2	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
PFHxS	355-46-4	3.78	4.00	94.5	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
6:2 FTS	27619-97-2	3.64	4.00	91.0	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
PFOA	335-67-1	3.28	4.00	82.1	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
PFHpS	375-92-8	3.48	4.00	86.9	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
PFNA	375-95-1	3.59	4.00	89.6	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
PFOSA	754-91-6	4.17	4.00	104	50 - 150	Q	B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
PFOS	1763-23-1	3.31	4.00	82.7	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
9Cl-PF3ONS	756426-58-1	3.37	4.00	84.3	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
PFDA	335-76-2	3.60	4.00	89.9	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
8:2 FTS	39108-34-4	4.45	4.00	111	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
PFNS	68259-12-1	2.58	4.00	64.4	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
MeFOSAA	2355-31-9	4.18	4.00	105	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
EtFOSAA	2991-50-6	3.67	4.00	91.7	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
PFUnA	2058-94-8	3.18	4.00	79.4	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
PFDS	335-77-3	3.90	4.00	97.5	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
11Cl-PF3OUdS	763051-92-9	3.60	4.00	90.1	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
PFDoA	307-55-1	3.59	4.00	89.7	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
MeFOSA	31506-32-8	2.22	4.00	55.5	50 - 150	J	B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
PFTrDA	72629-94-8	4.03	4.00	101	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
PFDoS	79780-39-5	3.66	4.00	91.5	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
PFTeDA	376-06-7	3.65	4.00	91.3	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
EtFOSA	4151-50-2	3.48	4.00	87.1	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
MeFOSE	24448-09-7	3.86	4.00	96.5	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
EtFOSE	1691-99-2	3.66	4.00	91.5	50 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution

Sample ID: OPR **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Aqueous

Laboratory Data

Lab Sample: B22F206-BS1
Column: BEH C18

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	115	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
13C3-PFPeA	IS	113	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
13C3-PFBS	IS	108	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
13C2-4:2 FTS	IS	103	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
13C2-PFHxA	IS	109	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
13C3-HFPO-DA	IS	107	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
13C4-PFHpA	IS	107	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
13C3-PFHxS	IS	108	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
13C2-6:2 FTS	IS	118	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
13C2-PFOA	IS	111	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
13C5-PFNA	IS	111	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
13C8-PFOSA	IS	64.6	10 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
13C8-PFOS	IS	116	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
13C2-PFDA	IS	105	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
13C2-8:2 FTS	IS	103	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
d3-MeFOSAA	IS	103	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
d5-EtFOSAA	IS	88.9	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
13C2-PFUnA	IS	101	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
13C2-PFDoA	IS	94.9	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
d3-MeFOSA	IS	21.1	10 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
13C2-PFTeDA	IS	102	25 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
d5-EtFOSA	IS	18.4	10 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
d7-MeFOSE	IS	43.4	10 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1
d9-EtFOSE	IS	43.8	10 - 150		B22F206	11-Jul-22	0.250 L	12-Jul-22 20:33	1

Vista
an Enthalpy Analytical Laboratory

Sample ID: FB_061322

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Aqueous
Date Collected: 13-Jun-22 13:15

Laboratory Data

Lab Sample: 2206187-18
Date Received: 22-Jun-22 09:54
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.955	0.955	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
PFPeA	2706-90-3	<0.714	0.714	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
PFBS	375-73-5	<0.855	0.855	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
4:2 FTS	757124-72-4	<0.898	0.898	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
PFHxA	307-24-4	<0.770	0.770	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
PFPeS	2706-91-4	<0.775	0.775	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
HFPO-DA	13252-13-6	<1.48	1.48	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
PFHpA	375-85-9	<0.884	0.884	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
ADONA	919005-14-4	<0.605	0.605	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
PFHxS	355-46-4	<0.974	0.974	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
6:2 FTS	27619-97-2	<1.06	1.06	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
PFOA	335-67-1	<0.903	0.903	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
PFHpS	375-92-8	<0.562	0.562	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
PFNA	375-95-1	<0.714	0.714	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
PFOSA	754-91-6	<1.03	1.03	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
PFOS	1763-23-1	<1.07	1.07	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
9Cl-PF3ONS	756426-58-1	<1.01	1.01	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
PFDA	335-76-2	<0.893	0.893	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
8:2 FTS	39108-34-4	<1.07	1.07	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
PFNS	68259-12-1	<1.09	1.09	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
MeFOSAA	2355-31-9	<0.898	0.898	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
EtFOSAA	2991-50-6	<0.983	0.983	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
PFUnA	2058-94-8	<0.714	0.714	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
PFDS	335-77-3	<0.718	0.718	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
11Cl-PF3OUdS	763051-92-9	<0.936	0.936	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
PFDoA	307-55-1	<0.922	0.922	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
MeFOSA	31506-32-8	<2.12	2.12	2.36		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
PFTrDA	72629-94-8	<0.619	0.619	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
PFDoS	79780-39-5	<1.34	1.34	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
PFTeDA	376-06-7	<0.770	0.770	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
EtFOSA	4151-50-2	<2.20	2.20	2.36		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
MeFOSE	24448-09-7	<1.89	1.89	2.36		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
EtFOSE	1691-99-2	<1.48	1.48	1.89		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	113	25 - 150		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
13C3-PFPeA	IS	110	25 - 150		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
13C3-PFBS	IS	108	25 - 150		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1

Sample ID: FB_061322

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Aqueous
Date Collected: 13-Jun-22 13:15

Laboratory Data

Lab Sample: 2206187-18
Date Received: 22-Jun-22 09:54
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	114	25 - 150		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
13C2-PFHxA	IS	109	25 - 150		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
13C3-HFPO-DA	IS	106	25 - 150		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
13C4-PFHpA	IS	109	25 - 150		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
13C3-PFHxS	IS	103	25 - 150		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
13C2-6:2 FTS	IS	98.2	25 - 150		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
13C2-PFOA	IS	112	25 - 150		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
13C5-PFNA	IS	116	25 - 150		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
13C8-PFOSA	IS	59.4	10 - 150		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
13C8-PFOS	IS	106	25 - 150		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
13C2-PFDA	IS	107	25 - 150		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
13C2-8:2 FTS	IS	102	25 - 150		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
d3-MeFOSAA	IS	96.3	25 - 150		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
d5-EtFOSAA	IS	89.7	25 - 150		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
13C2-PFUnA	IS	105	25 - 150		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
13C2-PFDoA	IS	100	25 - 150		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
d3-MeFOSA	IS	31.1	10 - 150		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
13C2-PFTeDA	IS	102	25 - 150		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
d5-EtFOSA	IS	27.3	10 - 150		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
d7-MeFOSE	IS	49.0	10 - 150		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1
d9-EtFOSE	IS	45.9	10 - 150		B22F206	11-Jul-22	0.264 L	12-Jul-22 20:44	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: FB_061422 **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Aqueous
Date Collected: 14-Jun-22 08:30

Laboratory Data

Lab Sample: 2206187-19
Date Received: 22-Jun-22 09:54
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<1.01	1.01	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
PFPeA	2706-90-3	<0.757	0.757	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
PFBS	375-73-5	<0.908	0.908	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
4:2 FTS	757124-72-4	<0.953	0.953	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
PFHxA	307-24-4	<0.817	0.817	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
PFPeS	2706-91-4	<0.822	0.822	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
HFPO-DA	13252-13-6	<1.57	1.57	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
PFHpA	375-85-9	<0.938	0.938	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
ADONA	919005-14-4	<0.642	0.642	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
PFHxS	355-46-4	<1.03	1.03	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
6:2 FTS	27619-97-2	<1.13	1.13	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
PFOA	335-67-1	<0.958	0.958	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
PFHpS	375-92-8	<0.597	0.597	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
PFNA	375-95-1	<0.757	0.757	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
PFOSA	754-91-6	<1.09	1.09	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
PFOS	1763-23-1	<1.13	1.13	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
9Cl-PF3ONS	756426-58-1	<1.07	1.07	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
PFDA	335-76-2	<0.948	0.948	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
8:2 FTS	39108-34-4	<1.14	1.14	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
PFNS	68259-12-1	<1.16	1.16	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
MeFOSAA	2355-31-9	<0.953	0.953	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
EtFOSAA	2991-50-6	<1.04	1.04	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
PFUnA	2058-94-8	<0.757	0.757	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
PFDS	335-77-3	<0.762	0.762	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
11Cl-PF3OUdS	763051-92-9	<0.993	0.993	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
PFDoA	307-55-1	<0.978	0.978	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
MeFOSA	31506-32-8	<2.25	2.25	2.51		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
PFTrDA	72629-94-8	<0.657	0.657	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
PFDoS	79780-39-5	<1.42	1.42	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
PFTeDA	376-06-7	<0.817	0.817	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
EtFOSA	4151-50-2	<2.33	2.33	2.51		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
MeFOSE	24448-09-7	<2.01	2.01	2.51		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
EtFOSE	1691-99-2	<1.57	1.57	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	105	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
13C3-PFPeA	IS	104	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
13C3-PFBS	IS	99.2	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1

Sample ID: FB_061422

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Aqueous
Date Collected: 14-Jun-22 08:30

Laboratory Data

Lab Sample: 2206187-19
Date Received: 22-Jun-22 09:54
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	102	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
13C2-PFHxA	IS	103	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
13C3-HFPO-DA	IS	101	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
13C4-PFHpA	IS	102	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
13C3-PFHxS	IS	103	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
13C2-6:2 FTS	IS	115	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
13C2-PFOA	IS	101	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
13C5-PFNA	IS	110	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
13C8-PFOSA	IS	62.0	10 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
13C8-PFOS	IS	104	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
13C2-PFDA	IS	92.3	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
13C2-8:2 FTS	IS	95.1	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
d3-MeFOSAA	IS	94.2	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
d5-EtFOSAA	IS	83.3	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
13C2-PFUnA	IS	94.8	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
13C2-PFDoA	IS	93.8	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
d3-MeFOSA	IS	31.2	10 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
13C2-PFTeDA	IS	99.8	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
d5-EtFOSA	IS	27.9	10 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
d7-MeFOSE	IS	52.0	10 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1
d9-EtFOSE	IS	50.1	10 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 20:54	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Vista
an Enthalpy Analytical Laboratory

Sample ID: FB_061522 **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Aqueous
Date Collected: 15-Jun-22 12:00

Laboratory Data

Lab Sample: 2206187-20
Date Received: 22-Jun-22 09:54
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.997	0.997	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
PFPeA	2706-90-3	<0.745	0.745	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
PFBS	375-73-5	<0.893	0.893	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
4:2 FTS	757124-72-4	<0.938	0.938	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
PFHxA	307-24-4	<0.804	0.804	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
PFPeS	2706-91-4	<0.809	0.809	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
HFPO-DA	13252-13-6	<1.54	1.54	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
PFHpA	375-85-9	<0.923	0.923	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
ADONA	919005-14-4	<0.632	0.632	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
PFHxS	355-46-4	<1.02	1.02	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
6:2 FTS	27619-97-2	<1.11	1.11	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
PFOA	335-67-1	<0.943	0.943	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
PFHpS	375-92-8	<0.587	0.587	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
PFNA	375-95-1	<0.745	0.745	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
PFOSA	754-91-6	<1.08	1.08	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
PFOS	1763-23-1	<1.12	1.12	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
9Cl-PF3ONS	756426-58-1	<1.05	1.05	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
PFDA	335-76-2	<0.933	0.933	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
8:2 FTS	39108-34-4	<1.12	1.12	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
PFNS	68259-12-1	<1.14	1.14	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
MeFOSAA	2355-31-9	<0.938	0.938	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
EtFOSAA	2991-50-6	<1.03	1.03	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
PFUnA	2058-94-8	<0.745	0.745	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
PFDS	335-77-3	<0.750	0.750	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
11Cl-PF3OUdS	763051-92-9	<0.977	0.977	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
PFDoA	307-55-1	<0.962	0.962	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
MeFOSA	31506-32-8	<2.21	2.21	2.47		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
PFTrDA	72629-94-8	<0.647	0.647	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
PFDoS	79780-39-5	<1.40	1.40	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
PFTeDA	376-06-7	<0.804	0.804	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
EtFOSA	4151-50-2	<2.29	2.29	2.47		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
MeFOSE	24448-09-7	<1.97	1.97	2.47		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
EtFOSE	1691-99-2	<1.55	1.55	1.97		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	109	25 - 150		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
13C3-PFPeA	IS	106	25 - 150		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
13C3-PFBS	IS	103	25 - 150		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1

Sample ID: FB_061522 **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Aqueous
Date Collected: 15-Jun-22 12:00

Laboratory Data

Lab Sample: 2206187-20
Date Received: 22-Jun-22 09:54
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	103	25 - 150		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
13C2-PFHxA	IS	105	25 - 150		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
13C3-HFPO-DA	IS	105	25 - 150		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
13C4-PFHpA	IS	107	25 - 150		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
13C3-PFHxS	IS	99.1	25 - 150		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
13C2-6:2 FTS	IS	112	25 - 150		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
13C2-PFOA	IS	103	25 - 150		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
13C5-PFNA	IS	113	25 - 150		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
13C8-PFOSA	IS	64.1	10 - 150		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
13C8-PFOS	IS	106	25 - 150		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
13C2-PFDA	IS	103	25 - 150		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
13C2-8:2 FTS	IS	99.3	25 - 150		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
d3-MeFOSAA	IS	97.4	25 - 150		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
d5-EtFOSAA	IS	93.4	25 - 150		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
13C2-PFUnA	IS	94.7	25 - 150		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
13C2-PFDoA	IS	96.4	25 - 150		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
d3-MeFOSA	IS	35.4	10 - 150		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
13C2-PFTeDA	IS	96.9	25 - 150		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
d5-EtFOSA	IS	31.2	10 - 150		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
d7-MeFOSE	IS	55.9	10 - 150		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1
d9-EtFOSE	IS	58.2	10 - 150		B22F206	11-Jul-22	0.253 L	12-Jul-22 21:36	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: Source Water — **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Aqueous
Date Collected: 15-Jun-22 07:50

Laboratory Data

Lab Sample: 2206187-21
Date Received: 22-Jun-22 09:54
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<1.01	1.01	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
PFPeA	2706-90-3	<0.758	0.758	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
PFBS	375-73-5	<0.908	0.908	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
4:2 FTS	757124-72-4	<0.954	0.954	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
PFHxA	307-24-4	<0.818	0.818	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
PFPeS	2706-91-4	<0.823	0.823	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
HFPO-DA	13252-13-6	<1.57	1.57	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
PFHpA	375-85-9	<0.939	0.939	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
ADONA	919005-14-4	<0.642	0.642	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
PFHxS	355-46-4	<1.03	1.03	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
6:2 FTS	27619-97-2	<1.13	1.13	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
PFOA	335-67-1	1.69	0.959	2.01	J	B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
PFHpS	375-92-8	<0.597	0.597	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
PFNA	375-95-1	<0.758	0.758	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
PFOSA	754-91-6	25.1	1.09	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
PFOS	1763-23-1	<1.13	1.13	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
9Cl-PF3ONS	756426-58-1	<1.07	1.07	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
PFDA	335-76-2	<0.949	0.949	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
8:2 FTS	39108-34-4	<1.14	1.14	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
PFNS	68259-12-1	<1.16	1.16	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
MeFOSAA	2355-31-9	<0.954	0.954	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
EtFOSAA	2991-50-6	<1.04	1.04	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
PFUnA	2058-94-8	<0.758	0.758	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
PFDS	335-77-3	<0.763	0.763	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
11Cl-PF3OUdS	763051-92-9	<0.994	0.994	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
PFDoA	307-55-1	<0.979	0.979	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
MeFOSA	31506-32-8	<2.25	2.25	2.51		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
PFTrDA	72629-94-8	<0.658	0.658	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
PFDoS	79780-39-5	<1.42	1.42	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
PFTeDA	376-06-7	<0.818	0.818	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
EtFOSA	4151-50-2	<2.33	2.33	2.51		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
MeFOSE	24448-09-7	<2.01	2.01	2.51		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
EtFOSE	1691-99-2	<1.58	1.58	2.01		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	102	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
13C3-PFPeA	IS	109	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
13C3-PFBS	IS	102	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1

Sample ID: Source Water **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Aqueous
Date Collected: 15-Jun-22 07:50

Laboratory Data

Lab Sample: 2206187-21
Date Received: 22-Jun-22 09:54
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	115	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
13C2-PFHxA	IS	111	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
13C3-HFPO-DA	IS	103	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
13C4-PFHpA	IS	106	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
13C3-PFHxS	IS	104	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
13C2-6:2 FTS	IS	109	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
13C2-PFOA	IS	103	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
13C5-PFNA	IS	109	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
13C8-PFOSA	IS	96.0	10 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
13C8-PFOS	IS	107	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
13C2-PFDA	IS	111	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
13C2-8:2 FTS	IS	90.6	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
d3-MeFOSAA	IS	106	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
d5-EtFOSAA	IS	97.5	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
13C2-PFUnA	IS	98.1	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
13C2-PFDoA	IS	101	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
d3-MeFOSA	IS	33.3	10 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
13C2-PFTeDA	IS	102	25 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
d5-EtFOSA	IS	27.5	10 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
d7-MeFOSE	IS	52.0	10 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1
d9-EtFOSE	IS	57.5	10 - 150		B22F206	11-Jul-22	0.249 L	12-Jul-22 21:46	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: EQB_061522 **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Aqueous
Date Collected: 15-Jun-22 07:30

Laboratory Data

Lab Sample: 2206187-22
Date Received: 22-Jun-22 09:54
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<1.00	1.00	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
PFPeA	2706-90-3	<0.749	0.749	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
PFBS	375-73-5	<0.898	0.898	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
4:2 FTS	757124-72-4	<0.943	0.943	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
PFHxA	307-24-4	<0.809	0.809	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
PFPeS	2706-91-4	<0.814	0.814	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
HFPO-DA	13252-13-6	<1.55	1.55	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
PFHpA	375-85-9	<0.928	0.928	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
ADONA	919005-14-4	<0.635	0.635	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
PFHxS	355-46-4	<1.02	1.02	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
6:2 FTS	27619-97-2	<1.12	1.12	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
PFOA	335-67-1	<0.948	0.948	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
PFHpS	375-92-8	<0.591	0.591	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
PFNA	375-95-1	<0.749	0.749	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
PFOSA	754-91-6	<1.08	1.08	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
PFOS	1763-23-1	<1.12	1.12	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
9Cl-PF3ONS	756426-58-1	<1.06	1.06	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
PFDA	335-76-2	<0.938	0.938	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
8:2 FTS	39108-34-4	<1.13	1.13	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
PFNS	68259-12-1	<1.15	1.15	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
MeFOSAA	2355-31-9	<0.943	0.943	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
EtFOSAA	2991-50-6	<1.03	1.03	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
PFUnA	2058-94-8	<0.749	0.749	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
PFDS	335-77-3	<0.754	0.754	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
11Cl-PF3OUdS	763051-92-9	<0.983	0.983	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
PFDoA	307-55-1	<0.968	0.968	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
MeFOSA	31506-32-8	<2.22	2.22	2.48		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
PFTrDA	72629-94-8	<0.650	0.650	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
PFDoS	79780-39-5	<1.40	1.40	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
PFTeDA	376-06-7	<0.809	0.809	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
EtFOSA	4151-50-2	<2.31	2.31	2.48		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
MeFOSE	24448-09-7	<1.99	1.99	2.48		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
EtFOSE	1691-99-2	<1.56	1.56	1.99		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	110	25 - 150		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
13C3-PFPeA	IS	108	25 - 150		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
13C3-PFBS	IS	98.0	25 - 150		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1

Sample ID: EQB_061522

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: FMM Site Investigation
Matrix: Aqueous
Date Collected: 15-Jun-22 07:30

Laboratory Data

Lab Sample: 2206187-22
Date Received: 22-Jun-22 09:54
Column: BEH C18

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	108	25 - 150		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
13C2-PFHxA	IS	103	25 - 150		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
13C3-HFPO-DA	IS	103	25 - 150		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
13C4-PFHpA	IS	103	25 - 150		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
13C3-PFHxS	IS	106	25 - 150		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
13C2-6:2 FTS	IS	115	25 - 150		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
13C2-PFOA	IS	102	25 - 150		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
13C5-PFNA	IS	110	25 - 150		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
13C8-PFOSA	IS	72.5	10 - 150		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
13C8-PFOS	IS	113	25 - 150		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
13C2-PFDA	IS	96.5	25 - 150		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
13C2-8:2 FTS	IS	96.8	25 - 150		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
d3-MeFOSAA	IS	102	25 - 150		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
d5-EtFOSAA	IS	96.6	25 - 150		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
13C2-PFUnA	IS	103	25 - 150		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
13C2-PFDoA	IS	102	25 - 150		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
d3-MeFOSA	IS	33.7	10 - 150		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
13C2-PFTeDA	IS	90.7	25 - 150		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
d5-EtFOSA	IS	29.7	10 - 150		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
d7-MeFOSE	IS	57.2	10 - 150		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1
d9-EtFOSE	IS	52.3	10 - 150		B22F206	11-Jul-22	0.252 L	12-Jul-22 21:57	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Vista Analytical Laboratory Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Massachusetts Department of Environmental Protection	M-CA413
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	2211390
New Hampshire Environmental Accreditation Program	207721
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-021
Pennsylvania Department of Environmental Protection	018
Texas Commission on Environmental Quality	T104704189-22-13
Vermont Department of Health	VT-4042
Virginia Department of General Services	11276
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.

NELAP Accredited Test Methods

MATRIX: Air	
Description of Test	**Method**
Determination of Polychlorinated p- Dioxins & Polychlorinated Dibenzofurans	EPA 23
Polychlorinated Dibenzodioxins in Ambient Air by GC/HRMS	EPA TO-9A

MATRIX: Biological Tissue	
Description of Test	**Method**
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Drinking Water	
Description of Test	**Method**
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613/1613B
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537.1
Determination of Per- and Polyfluoroalkyl Substances in Drinking Water by Isotope Dilution Anion Exchange Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry	EPA 533
Perfluorooctanesulonate (PFOS) and Perfluorooctanoate (PFOA) - Method for Unfiltered Samples Using Solid Phase Extraction and Liquid Chromatography/Mass Spectrometry	ISO 25101 2009

MATRIX: Non-Potable Water	
Description of Test	**Method**
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Dioxin by GC/HRMS	EPA 613
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Solids	
Description of Test	**Method**
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

Vista Analytical Laboratory

CHAIN OF CUSTODY

For Laboratory Use Only
Work Order #: 2206187 Temp: 5.8 °C
Storage ID: R-13, WR-2 Storage Secured: Yes ☑ No ☐

Project ID: FMM Site Investigation PO#: 6000022592 Sampler: Garret Shacht (name)

TAT (check one): Standard: ☒ 21 days; Rush (surcharge may apply) ☐ 14 days ☐ 7 days Specify: ____

Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time
Leslie Bychinski	6/20/22	1530	Karen Antle	06/22/22	09:54

SHIP TO: Vista Analytical Laboratory
1104 Windfield Way
El Dorado Hills, CA 95762
(916) 673-1520 * Fax (916) 673-0106

ATTN: ____

Method of Shipment: ____

Tracking No.: ____

Add Analysis(es) Requested

Sample ID	Date	Time	Location/ Sample Description	Container(s) Quantity	Type	Matrix	PFOA/ PFOS	UCMR3 PFAS List:6	537.1 List: 14 or 18 (Circle One)	EPA Draft List of 24	OTHER: Please attach analyte list (LT Csx & 33 Analytes)	PFAS by Isotope Dilution: PFOA/ PFOS	PFAS by Isotope Dilution: UCMR3 PFAS List:6	PFAS by Isotope Dilution: 537.1 List of 14	PFAS by Isotope Dilution: 537.1 List of 18	EPA Method 537 (DW only)	Comments
MW-9_(1.5-3.5)	6-13-22	1215		1	PJ	SO					X						
MW-13_(1.5-2.5)	6-13-22	1130		1	PJ	SO					X						B/L/T
MW-1_(1.5-3.5)	6-13-22	1310		1	PJ	SO					X						
MW-5_(1-3)	6-13-22	1345		1	PJ	SO					X						
MW-14_(1.5-3.5)	6-14-22	0740		1	PJ	SO					X						
MW-10_(2-4)	6-14-22	0815		1	PJ	SO					X						
MW-2_(1.5-3.5)	6-14-22	1100		1	PJ	SO					X						
MW-7_(1.5-3.5)	6-14-22	1130		1	PJ	SO					X						
MW-11_(1.5-3.5)	6-14-22	1210		1	PJ	SO					X						
MW-3_(1.5-3.5)	6-14-22	1430		1	PJ	SO					X						

Special Instructions/Comment
B/L/T = Branch Linear

SEND DOCUMENTATION AND RESULTS TO:
Name: ____
Company: ____
Address: ____
City: ____ State: ____ Zip: ____
Phone: ____
Email: ____

Container Types: P = HDPE, PJ = HDPE Jar, PY = Polypropylene, O= Other ____

Bottle Preservation Type: TZ= Trizma: ____

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other ____

v. Date: 08/03/2020

Page: 1 of 1

Vista Analytical Laboratory

CHAIN OF CUSTODY

For Laboratory Use Only	
Work Order #: 2206187	Temp: 5.8 °C
Storage ID: R-13, WR-2	Storage Secured: Yes ☑ No ☐

Project ID: FMM Site Investigation PO#: 60062292 Sampler: Garret Schacht (name)

TAT (check one): Standard: ☒ 21 days; Rush (surcharge may apply) ☐ 14 days ☐ 7 days Specify: ____

Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time
Leslie Rychinski [signature]	6/20/22	1530	Karen Y. [signature]	06/22/22	09:54

SHIP TO: Vista Analytical Laboratory
1104 Windfield Way
El Dorado Hills, CA 95762
(916) 673-1520 • Fax (916) 673-0106

ATTN: ____

Method of Shipment: ____

Tracking No.: ____

Add Analysis(es) Requested

Sample ID	Date	Time	Location/ Sample Description	Quantity	Type	Matrix	PFAS by Isotope Dilution: PFOA/PFOS	UCMR3 PFAS List:6	537.1 List: 14 or 18 (Circle One)	EPA Draft List of 24	OTHER: Please attach analyte list: WI List of 33 Analytes	EPA Method 537 (DW only): PFOA/PFOS	UCMR3 PFAS List:6	537.1 List of 14	537.1 List of 18	Comments
MW-6_(1.5-3.5)	6-14-22	1240		1	PJ	So					X					
~~MW-3_(1.5-3.5)~~ (GS)																
MW-15_(1.5-3.5)	6-14-22	1330		1	PJ	So					X					
MW-16_(1.5-3.5)	6-14-22	1515		1	PJ	So					X					
MW-12_(1.5-3.5)	6-15-22	0900		1	PJ	So					X					
MW-8_(1.5-3.5)	6-15-22	0950		1	PJ	So					X					
MW-8_(13-14)	6-15-22	1000		1	PJ	So					X					Hold
MW-4_(1.5-3.5)	6-15-22	1130		1	PJ	So					X					
				~~1~~												
				~~1~~												

Special Instructions/Comment

SEND DOCUMENTATION AND RESULTS TO:
Name: ____
Company: ____
Address: ____
City: ____ State: ____ Zip: ____
Phone: ____
Email: ____

Container Types: P = HDPE, PJ = HDPE Jar, PY = Polypropylene, O= Other ____

Bottle Preservation Type: TZ= Trizma: ____

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other ____

Vista Analytical Laboratory

CHAIN OF CUSTODY

For Laboratory Use Only
Work Order #: 2206187 Temp: 5.8 °C
Storage ID: R-13, WR-2 Storage Secured: Yes ☑ No ☐

Project ID: FMM Site Investigation PO#: 6000622592 Sampler: Garret Schacht (name)

TAT (check one): Standard: ☒ 21 days; Rush (surcharge may apply): ☐ 14 days ☐ 7 days Specify: _____

Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time
Leslie Bychinski	6/20/22	1530	Karen Foster KF	06/22/22	08:54
Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time

SHIP TO: Vista Analytical Laboratory
1104 Windfield Way
El Dorado Hills, CA 95762
(916) 673-1520 * Fax (916) 673-0106

ATTN: _____

Method of Shipment: _____

Tracking No.: _____

Add Analysis(es) Requested

Sample ID	Date	Time	Location/ Sample Description	Container(s) Quantity	Type	Matrix	PFAS by Isotope Dilution: PFOA/ PFOS	UCMR3 PFAS List:6	537.1 List: 14 or 18 (Circle One)	EPA Draft List of 24	OTHER: Please attach analyte list (LIST OF 33 Analytes)	EPA Method 537 (DW only): PFOA/ PFOS	UCMR3 PFAS List:6	537.1 List of 14	537.1 List of 18	Comments
FB_061322	6-13-22	1315		2	P	AQ					X					
FB_061422	6-14-22	0830		2	P	AQ					X					
~~FB_061422~~	6/15/22	1200		2	P	AQ					X					FB_061522
Source Water	6-15-22	0750		2	P	AQ					X					
EQB_061522	6/15-22	0730		2	P	AQ					X					

Special Instructions/Comment

SEND DOCUMENTATION AND RESULTS TO:
Name: _____
Company: _____
Address: _____
City: _____ State: ___ Zip: _____
Phone: _____
Email: _____

Container Types: P = HDPE, PJ = HDPE Jar, PY = Polypropylene, O= Other _____

Bottle Preservation Type: TZ= Trizma: _____

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other _____

Vista Analytical Laboratory

Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 2206187 TAT std

Samples Arrival:	**Date/Time** 06/22/22 09:54		**Initials:** IG		**Location:** WR-2 **Shelf/Rack:** R1A		
Delivered By:	~~FedEx~~	UPS	On Trac	GLS	DHL	Hand Delivered	Other
Preservation:	~~Ice~~		Blue Ice		Techni Ice	Dry Ice	None
Temp °C: 5.9 (uncorrected) **Temp °C:** 5.8 (corrected)			**Probe used: Y / (N)**		**Thermometer ID:** IR-3		

	YES	NO	NA
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Airbill ✓ Trk # 2745 5924 6798	✓		
Shipping Documentation Present?	✓		

Shipping Container	~~Vista~~	Client	~~Retain~~	Return	Dispose

	YES	NO	NA
Chain of Custody / Sample Documentation Present?	✓		
Chain of Custody / Sample Documentation Complete?	✓		
Holding Time Acceptable?	✓		

Logged In:	**Date/Time** 06/25/22 2229	**Initials:** WWS	**Location:** R-13, WR-2 **Shelf/Rack:** R-4, R-4, F-6	
COC Anomaly/Sample Acceptance Form completed?			✓	✓

Comments:

CoC/Label Reconciliation Report WO# 2206187

LabNumber	CoC Sample ID		SampleAlias	Sample Date/Time		Container	BaseMatrix	Sample Comments
2206187-01	A MW-9_(1.5-3.5)	☑		13-Jun-22 12:15	☑	HDPE Jar, 6 oz	Solid	
2206187-02	A MW-13_(1.5-2.5)	☑		13-Jun-22 11:30	☑	HDPE Jar, 6 oz	Solid	
2206187-03	A MW-1_(1.5-3.5)	☑		13-Jun-22 13:10	☑	HDPE Jar, 6 oz	Solid	
2206187-04	A MW-5_(1-3)	☑		13-Jun-22 13:45	☑	HDPE Jar, 6 oz	Solid	
2206187-05	A MW-14_(1.5-3.5)	☑		14-Jun-22 07:40	☑	HDPE Jar, 6 oz	Solid	
2206187-06	A MW-10_(2-4)	☑		14-Jun-22 08:15	☑	HDPE Jar, 6 oz	Solid	
2206187-07	A MW-2_(1.5-3.5)	☑		14-Jun-22 11:00	☑	HDPE Jar, 6 oz	Solid	
2206187-08	A MW-7_(1.5-3.5)	☑		14-Jun-22 11:30	☑	HDPE Jar, 6 oz	Solid	
2206187-09	A MW-11_(1.5-3.5)	☑		14-Jun-22 12:10	☑	HDPE Jar, 6 oz	Solid	
2206187-10	A MW-3_(1.5-3.5)	☑		14-Jun-22 14:30	☑	HDPE Jar, 6 oz	Solid	
2206187-11	A MW-6_(1.5-3.5)	☑		14-Jun-22 12:40	☑	HDPE Jar, 6 oz	Solid	
2206187-12	A MW-15_(1.5-3.5)	☑		14-Jun-22 13:30	☑	HDPE Jar, 6 oz	Solid	
2206187-13	A MW-16_(1.5-3.5)	☑		14-Jun-22 15:15	☑	HDPE Jar, 6 oz	Solid	
2206187-14	A MW-12_(1.5-3.5)	☑		15-Jun-22 09:00	☑	HDPE Jar, 6 oz	Solid	
2206187-15	A MW-8_(1.5-3.5)	☑		15-Jun-22 09:50	☑	HDPE Jar, 6 oz	Solid	
2206187-16	A MW-8_(13-14)	☑		15-Jun-22 10:00	☑	HDPE Jar, 6 oz	Solid	
2206187-17	A MW-4_(1.5-3.5)	☑		15-Jun-22 11:30	☑	HDPE Jar, 6 oz	Solid	
2206187-18	A FB_061322	☑		13-Jun-22 13:15	☑	HDPE Bottle, 250 mL	Aqueous	
2206187-18	B FB_061322	☑		13-Jun-22 13:15	☑	HDPE Bottle, 250 mL	Aqueous	
2206187-19	A FB_061422	☑		14-Jun-22 08:30	☑	HDPE Bottle, 250 mL	Aqueous	
2206187-19	B FB_061422	☑		14-Jun-22 08:30	☑	HDPE Bottle, 250 mL	Aqueous	
2206187-20	A FB_061522	☑		15-Jun-22 12:00	☑	HDPE Bottle, 250 mL	Aqueous	
2206187-20	B FB_061522	☑		15-Jun-22 12:00	☑	HDPE Bottle, 250 mL	Aqueous	
2206187-21	A Source Water	☑		15-Jun-22 07:50	☑	HDPE Bottle, 250 mL	Aqueous	
2206187-21	B Source Water	☑		15-Jun-22 07:50	☑	HDPE Bottle, 250 mL	Aqueous	
2206187-22	A EQB_061522	☑		15-Jun-22 07:30	☑	HDPE Bottle, 250 mL	Aqueous	
2206187-22	B EQB_061522	☑		15-Jun-22 07:30	☑	HDPE Bottle, 250 mL	Aqueous	

Checkmarks indicate that information on the COC reconciled with the sample label.
Any discrepancies are noted in the following columns.

	Yes	No	NA
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Adequate Sample Volume?	✓		
Container Type Appropriate for Analysis(es)	✓		

Comments:

Preservation Documented: Na2S2O3 Trizma NH4CH3CO2 None Other

AN

Verifed by/Date: KAN 06/27/22

August 29, 2022

Vista Work Order No. 2207164

Ms. Janel Dean
AECOM
558 North Main Street
Oshkosh, WI 54901

Dear Ms. Dean,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on July 15, 2022 under your Project Name '60662292'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at kvolpendesta@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Karen L. Volpendesta
Project Manager

Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 2207164
Case Narrative

Sample Condition on Receipt:

Ten aqueous samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The samples were received in good condition and within the recommended temperature requirements.

Analytical Notes:

PFAS Isotope Dilution Method

The following samples contained particulate and were centrifuged prior to extraction:

Laboratory ID	Sample Name
2207164-02	MW-2
2207164-03	MW-3
2207164-04	MW-4
2207164-05	MW-5
2207164-06	MW-6
2207164-07	MW-7
2207164-08	MW-8
2207164-09	MW-9
2207164-10	MW-10

The samples were extracted and analyzed for a selected list of PFAS using Vista's PFAS Isotope Dilution Method. The results for PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Results for all other analytes include the linear isomers only.

Holding Times

The samples were extracted and analyzed within the hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above the Reporting Limit. The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries outside the acceptance criteria are flagged with an "H" qualifier.

TABLE OF CONTENTS

Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2207164-01	MW-1	12-Jul-22 10:35	15-Jul-22 09:10	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
2207164-02	MW-2	12-Jul-22 15:15	15-Jul-22 09:10	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
2207164-03	MW-3	12-Jul-22 16:15	15-Jul-22 09:10	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
2207164-04	MW-4	13-Jul-22 14:40	15-Jul-22 09:10	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
2207164-05	MW-5	12-Jul-22 09:35	15-Jul-22 09:10	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
2207164-06	MW-6	12-Jul-22 14:05	15-Jul-22 09:10	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
2207164-07	MW-7	13-Jul-22 07:20	15-Jul-22 09:10	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
2207164-08	MW-8	13-Jul-22 13:35	15-Jul-22 09:10	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
2207164-09	MW-9	12-Jul-22 08:30	15-Jul-22 09:10	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
2207164-10	MW-10	12-Jul-22 13:05	15-Jul-22 09:10	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL

ANALYTICAL RESULTS

Sample ID: Method Blank

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous

Laboratory Data

Lab Sample: B22H045-BLK1
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	<1.01	1.01	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
L-PFPeA	<0.755	0.755	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
L-PFBS	<0.905	0.905	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
L-4:2 FTS	<0.950	0.950	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
L-PFHxA	<0.815	0.815	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
L-PFPeS	<0.820	0.820	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
HFPO-DA	<1.57	1.57	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
L-PFHpA	<0.935	0.935	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
ADONA	<0.640	0.640	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
L-PFHxS	<1.03	1.03	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
Br-PFHxS	<1.03	1.03	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
Total PFHxS	<1.03	1.03	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
L-6:2 FTS	<1.13	1.13	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
L-PFOA	<0.955	0.955	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
Br-PFOA	<0.955	0.955	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
Total PFOA	<0.955	0.955	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
L-PFHpS	<0.595	0.595	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
L-PFNA	<0.755	0.755	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
L-PFOSA	<1.09	1.09	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
L-PFOS	<1.13	1.13	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
Br-PFOS	<1.13	1.13	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
Total PFOS	<1.13	1.13	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
9Cl-PF3ONS	<1.07	1.07	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
L-PFDA	<0.945	0.945	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
L-8:2FTS	<1.14	1.14	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
L-PFNS	<1.16	1.16	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
L-MeFOSAA	<0.950	0.950	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
Br-MeFOSAA	<0.950	0.950	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
Total MeFOSAA	<0.950	0.950	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
L-EtFOSAA	<1.04	1.04	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
Br-EtFOSAA	<1.04	1.04	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
Total EtFOSAA	<1.04	1.04	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
L-PFUnA	<0.755	0.755	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
L-PFDS	<0.760	0.760	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
11Cl-PF3OUdS	<0.990	0.990	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
L-PFDoA	<0.975	0.975	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
L-MeFOSA	<2.24	2.24	2.50		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
L-PFTrDA	<0.655	0.655	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1

Sample ID: Method Blank

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292

Matrix: Aqueous

Laboratory Data

Lab Sample: B22H045-BLK1
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFDoS	<1.42	1.42	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
L-PFTeDA	<0.815	0.815	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
L-EtFOSA	<2.33	2.33	2.50		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
L-EtFOSE	<1.57	1.57	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
L-MeFOSE	<2.00	2.00	2.50		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	98.4	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
13C3-PFPeA	IS	89.4	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
13C3-PFBS	IS	81.2	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
13C3-HFPO-DA	IS	72.7	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
13C2-4:2 FTS	IS	82.1	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
13C2-PFHxA	IS	88.6	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
13C4-PFHpA	IS	80.4	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
13C3-PFHxS	IS	95.7	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
13C2-6:2 FTS	IS	64.7	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
13C5-PFNA	IS	87.5	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
13C8-PFOSA	IS	59.6	10 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
13C2-PFOA	IS	91.6	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
13C8-PFOS	IS	85.1	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
13C2-PFDA	IS	80.0	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
13C2-8:2 FTS	IS	92.1	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
d3-MeFOSAA	IS	74.4	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
13C2-PFUnA	IS	79.8	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
d5-EtFOSAA	IS	70.1	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
13C2-PFDoA	IS	79.8	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
d3-MeFOSA	IS	30.4	10 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
13C2-PFTeDA	IS	54.1	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
d5-EtFOSA	IS	28.6	10 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
d7-MeFOSE	IS	43.5	10 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1
d9-EtFOSE	IS	42.5	10 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:41	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

Sample ID: OPR **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: 60662292

Matrix: Aqueous

Laboratory Data

Lab Sample: B22H045-BS1 Column: BEH C18

Analyte	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	3.55	4.00	88.9	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
L-PFPeA	3.81	4.00	95.3	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
L-PFBS	3.87	4.00	96.7	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
L-4:2 FTS	3.38	4.00	84.5	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
L-PFHxA	3.60	4.00	89.9	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
L-PFPeS	3.86	4.00	96.4	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
HFPO-DA	3.35	4.00	83.6	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
L-PFHpA	4.19	4.00	105	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
ADONA	3.53	4.00	88.2	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
Total PFHxS	3.84	4.00	96.0	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
L-6:2 FTS	3.95	4.00	98.7	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
Total PFOA	4.42	4.00	110	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
L-PFHpS	4.23	4.00	106	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
L-PFNA	3.83	4.00	95.7	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
L-PFOSA	4.04	4.00	101	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
Total PFOS	2.83	4.00	70.8	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
9Cl-PF3ONS	3.89	4.00	97.1	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
L-PFDA	4.02	4.00	100	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
L-8:2FTS	2.52	4.00	63.0	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
L-PFNS	4.03	4.00	101	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
Total MeFOSAA	4.06	4.00	101	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
Total EtFOSAA	3.61	4.00	90.3	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
L-PFUnA	3.56	4.00	89.0	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
L-PFDS	3.70	4.00	92.6	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
11Cl-PF3OUdS	3.86	4.00	96.5	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
L-PFDoA	3.85	4.00	96.2	50 - 150	Q	B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
L-MeFOSA	3.67	4.00	91.7	50 - 150	Q	B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
L-PFTrDA	3.41	4.00	85.2	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
PFDoS	3.41	4.00	85.4	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
L-PFTeDA	3.78	4.00	94.4	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
L-EtFOSA	3.97	4.00	99.3	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1

Sample ID: OPR

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292

Matrix: Aqueous

Laboratory Data

Lab Sample: B22H045-BS1

Column: BEH C18

Analyte	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-EtFOSE	4.60	4.00	115	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
L-MeFOSE	4.21	4.00	105	50 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	93.6	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
13C3-PFPeA	IS	81.2	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
13C3-PFBS	IS	76.5	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
13C3-HFPO-DA	IS	86.6	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
13C2-4:2 FTS	IS	76.7	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
13C2-PFHxA	IS	82.7	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
13C4-PFHpA	IS	72.1	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
13C3-PFHxS	IS	77.8	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
13C2-6:2 FTS	IS	56.1	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
13C5-PFNA	IS	81.5	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
13C8-PFOSA	IS	57.2	10 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
13C2-PFOA	IS	71.4	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
13C8-PFOS	IS	78.4	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
13C2-PFDA	IS	76.2	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
13C2-8:2 FTS	IS	88.8	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
d3-MeFOSAA	IS	70.6	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
13C2-PFUnA	IS	80.7	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
d5-EtFOSAA	IS	63.8	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
13C2-PFDoA	IS	72.7	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
d3-MeFOSA	IS	26.3	10 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
13C2-PFTeDA	IS	47.3	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
d5-EtFOSA	IS	23.9	10 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
d7-MeFOSE	IS	40.2	10 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1
d9-EtFOSE	IS	39.4	10 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 22:52	1

Sample ID: MW-1

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 12-Jul-22 10:35

Laboratory Data

Lab Sample: 2207164-01
Date Received: 15-Jul-22 09:10
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	34.7	0.953	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
L-PFPeA	113	0.712	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
L-PFBS	6.63	0.854	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
L-4:2 FTS	<0.896	0.896	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
L-PFHxA	137	0.769	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
L-PFPeS	1.24	0.773	1.89	J	B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
HFPO-DA	<1.48	1.48	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
L-PFHpA	127	0.882	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
ADONA	<0.604	0.604	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
L-PFHxS	11.6	0.971	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
Br-PFHxS	<0.971	0.971	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
Total PFHxS	12.6	0.971	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
L-6:2 FTS	<1.06	1.06	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
L-PFOA	25.9	0.901	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
Br-PFOA	4.26	0.901	1.89	Q	B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
Total PFOA	30.1	0.901	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
L-PFHpS	<0.561	0.561	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
L-PFNA	<0.712	0.712	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
L-PFOSA	12.0	1.03	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
L-PFOS	<1.07	1.07	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
Br-PFOS	2.16	1.07	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
Total PFOS	3.09	1.07	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
9Cl-PF3ONS	<1.00	1.00	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
L-PFDA	<0.891	0.891	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
L-8:2FTS	<1.07	1.07	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
L-PFNS	<1.09	1.09	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
L-MeFOSAA	<0.896	0.896	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
Br-MeFOSAA	<0.896	0.896	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
Total MeFOSAA	<0.896	0.896	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
L-EtFOSAA	<0.981	0.981	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
Br-EtFOSAA	<0.981	0.981	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
Total EtFOSAA	<0.981	0.981	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
L-PFUnA	<0.712	0.712	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
L-PFDS	<0.717	0.717	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
11Cl-PF3OUdS	<0.934	0.934	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
L-PFDoA	<0.920	0.920	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
L-MeFOSA	<2.11	2.11	2.36		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1

Sample ID: MW-1

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 12-Jul-22 10:35

Laboratory Data

Lab Sample: 2207164-01
Date Received: 15-Jul-22 09:10
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFTrDA	<0.618	0.618	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
PFDoS	<1.33	1.33	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
L-PFTeDA	<0.769	0.769	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
L-EtFOSA	<2.19	2.19	2.36		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
L-EtFOSE	<1.48	1.48	1.89		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
L-MeFOSE	<1.89	1.89	2.36		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	66.3	25 - 150		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
13C3-PFPeA	IS	72.3	25 - 150		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
13C3-PFBS	IS	67.1	25 - 150		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
13C3-HFPO-DA	IS	63.6	25 - 150		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
13C2-4:2 FTS	IS	66.9	25 - 150		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
13C2-PFHxA	IS	68.1	25 - 150		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
13C4-PFHpA	IS	66.0	25 - 150		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
13C3-PFHxS	IS	73.5	25 - 150		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
13C2-6:2 FTS	IS	61.3	25 - 150		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
13C5-PFNA	IS	75.1	25 - 150		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
13C8-PFOSA	IS	58.9	10 - 150		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
13C2-PFOA	IS	57.9	25 - 150		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
13C8-PFOS	IS	66.9	25 - 150		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
13C2-PFDA	IS	69.3	25 - 150		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
13C2-8:2 FTS	IS	78.7	25 - 150		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
d3-MeFOSAA	IS	61.2	25 - 150		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
13C2-PFUnA	IS	70.3	25 - 150		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
d5-EtFOSAA	IS	64.1	25 - 150		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
13C2-PFDoA	IS	67.1	25 - 150		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
d3-MeFOSA	IS	29.7	10 - 150		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
13C2-PFTeDA	IS	67.8	25 - 150		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
d5-EtFOSA	IS	29.7	10 - 150		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
d7-MeFOSE	IS	60.6	10 - 150		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1
d9-EtFOSE	IS	55.1	10 - 150		B22H045	08-Aug-22	0.265 L	10-Aug-22 23:02	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

Sample ID: MW-2

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 12-Jul-22 15:15

Laboratory Data

Lab Sample: 2207164-02
Date Received: 15-Jul-22 09:10
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	67.1	1.01	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
L-PFPeA	207	0.754	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
L-PFBS	9.51	0.904	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
L-4:2 FTS	<0.948	0.948	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
L-PFHxA	143	0.814	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
L-PFPeS	3.31	0.819	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
HFPO-DA	<1.56	1.56	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
L-PFHpA	83.0	0.934	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
ADONA	<0.639	0.639	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
L-PFHxS	26.2	1.03	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
Br-PFHxS	6.15	1.03	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
Total PFHxS	32.4	1.03	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
L-6:2 FTS	37.5	1.12	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
L-PFOA	51.1	0.953	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
Br-PFOA	4.45	0.953	2.00	Q	B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
Total PFOA	55.5	0.953	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
L-PFHpS	<0.594	0.594	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
L-PFNA	7.27	0.754	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
L-PFOSA	37.6	1.09	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
L-PFOS	8.96	1.13	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
Br-PFOS	7.53	1.13	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
Total PFOS	16.5	1.13	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
9Cl-PF3ONS	<1.06	1.06	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
L-PFDA	<0.943	0.943	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
L-8:2FTS	<1.13	1.13	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
L-PFNS	<1.15	1.15	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
L-MeFOSAA	<0.948	0.948	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
Br-MeFOSAA	<0.948	0.948	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
Total MeFOSAA	<0.948	0.948	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
L-EtFOSAA	1.58	1.04	2.00	J	B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
Br-EtFOSAA	<1.04	1.04	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
Total EtFOSAA	1.90	1.04	2.00	J	B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
L-PFUnA	<0.754	0.754	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
L-PFDS	<0.759	0.759	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
11Cl-PF3OUdS	<0.988	0.988	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
L-PFDoA	<0.973	0.973	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
L-MeFOSA	<2.24	2.24	2.50		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1

Sample ID: MW-2

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 12-Jul-22 15:15

Laboratory Data

Lab Sample: 2207164-02
Date Received: 15-Jul-22 09:10
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFTrDA	<0.654	0.654	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
PFDoS	<1.41	1.41	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
L-PFTeDA	<0.814	0.814	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
L-EtFOSA	<2.32	2.32	2.50		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
L-EtFOSE	<1.57	1.57	2.00		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
L-MeFOSE	<2.00	2.00	2.50		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	79.4	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
13C3-PFPeA	IS	85.7	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
13C3-PFBS	IS	85.9	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
13C3-HFPO-DA	IS	84.8	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
13C2-4:2 FTS	IS	93.7	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
13C2-PFHxA	IS	85.7	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
13C4-PFHpA	IS	82.4	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
13C3-PFHxS	IS	101	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
13C2-6:2 FTS	IS	77.0	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
13C5-PFNA	IS	80.1	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
13C8-PFOSA	IS	65.4	10 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
13C2-PFOA	IS	84.4	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
13C8-PFOS	IS	87.5	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
13C2-PFDA	IS	84.2	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
13C2-8:2 FTS	IS	98.3	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
d3-MeFOSAA	IS	79.5	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
13C2-PFUnA	IS	86.9	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
d5-EtFOSAA	IS	80.7	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
13C2-PFDoA	IS	80.1	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
d3-MeFOSA	IS	34.4	10 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
13C2-PFTeDA	IS	70.0	25 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
d5-EtFOSA	IS	29.7	10 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
d7-MeFOSE	IS	60.5	10 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1
d9-EtFOSE	IS	55.9	10 - 150		B22H045	08-Aug-22	0.250 L	10-Aug-22 23:44	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

Sample ID: MW-3

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 12-Jul-22 16:15

Laboratory Data

Lab Sample: 2207164-03
Date Received: 15-Jul-22 09:10
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	95.2	1.02	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
L-PFPeA	393	0.759	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
L-PFBS	10.8	0.910	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
L-4:2 FTS	<0.955	0.955	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
L-PFHxA	267	0.820	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
L-PFPeS	9.13	0.825	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
HFPO-DA	<1.57	1.57	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
L-PFHpA	138	0.940	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
ADONA	<0.644	0.644	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
L-PFHxS	90.4	1.04	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
Br-PFHxS	16.9	1.04	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
Total PFHxS	107	1.04	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
L-6:2 FTS	184	1.13	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
L-PFOA	225	0.960	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
Br-PFOA	21.5	0.960	2.01	Q	B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
Total PFOA	247	0.960	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
L-PFHpS	2.51	0.598	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
L-PFNA	113	0.759	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
L-PFOSA	28.9	1.10	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
L-PFOS	85.2	1.14	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
Br-PFOS	54.9	1.14	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
Total PFOS	140	1.14	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
9Cl-PF3ONS	<1.07	1.07	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
L-PFDA	7.25	0.950	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
L-8:2FTS	10.1	1.14	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
L-PFNS	<1.16	1.16	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
L-MeFOSAA	<0.955	0.955	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
Br-MeFOSAA	<0.955	0.955	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
Total MeFOSAA	<0.955	0.955	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
L-EtFOSAA	<1.05	1.05	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
Br-EtFOSAA	<1.05	1.05	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
Total EtFOSAA	<1.05	1.05	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
L-PFUnA	<0.759	0.759	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
L-PFDS	<0.764	0.764	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
11Cl-PF3OUdS	<0.996	0.996	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
L-PFDoA	<0.981	0.981	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
L-MeFOSA	<2.25	2.25	2.51		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1

Sample ID: MW-3

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 12-Jul-22 16:15

Laboratory Data

Lab Sample: 2207164-03
Date Received: 15-Jul-22 09:10
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFTrDA	<0.659	0.659	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
PFDoS	<1.42	1.42	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
L-PFTeDA	<0.820	0.820	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
L-EtFOSA	<2.34	2.34	2.51		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
L-EtFOSE	<1.58	1.58	2.01		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
L-MeFOSE	<2.01	2.01	2.51		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	67.8	25 - 150		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
13C3-PFPeA	IS	78.1	25 - 150		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
13C3-PFBS	IS	78.6	25 - 150		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
13C3-HFPO-DA	IS	81.3	25 - 150		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
13C2-4:2 FTS	IS	89.8	25 - 150		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
13C2-PFHxA	IS	79.1	25 - 150		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
13C4-PFHpA	IS	83.9	25 - 150		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
13C3-PFHxS	IS	94.6	25 - 150		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
13C2-6:2 FTS	IS	85.1	25 - 150		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
13C5-PFNA	IS	86.7	25 - 150		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
13C8-PFOSA	IS	63.7	10 - 150		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
13C2-PFOA	IS	77.7	25 - 150		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
13C8-PFOS	IS	84.0	25 - 150		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
13C2-PFDA	IS	85.3	25 - 150		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
13C2-8:2 FTS	IS	88.5	25 - 150		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
d3-MeFOSAA	IS	83.3	25 - 150		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
13C2-PFUnA	IS	82.8	25 - 150		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
d5-EtFOSAA	IS	80.0	25 - 150		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
13C2-PFDoA	IS	73.9	25 - 150		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
d3-MeFOSA	IS	21.8	10 - 150		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
13C2-PFTeDA	IS	68.1	25 - 150		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
d5-EtFOSA	IS	19.4	10 - 150		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
d7-MeFOSE	IS	57.2	10 - 150		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1
d9-EtFOSE	IS	55.6	10 - 150		B22H045	08-Aug-22	0.249 L	10-Aug-22 23:55	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

Sample ID: MW-4 **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 13-Jul-22 14:40

Laboratory Data

Lab Sample: 2207164-04
Date Received: 15-Jul-22 09:10
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	77.2	0.990	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
L-PFPeA	308	0.740	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
L-PFBS	3.92	0.887	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
L-4:2 FTS	2.89	0.931	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
L-PFHxA	202	0.799	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
L-PFPeS	1.89	0.803	1.96	J	B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
HFPO-DA	<1.53	1.53	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
L-PFHpA	121	0.916	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
ADONA	<0.627	0.627	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
L-PFHxS	70.6	1.01	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
Br-PFHxS	7.75	1.01	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
Total PFHxS	78.4	1.01	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
L-6:2 FTS	315	1.10	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
L-PFOA	86.6	0.936	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
Br-PFOA	3.95	0.936	1.96	Q	B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
Total PFOA	90.5	0.936	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
L-PFHpS	0.620	0.583	1.96	J	B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
L-PFNA	21.9	0.740	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
L-PFOSA	27.9	1.07	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
L-PFOS	30.4	1.11	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
Br-PFOS	13.3	1.11	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
Total PFOS	43.7	1.11	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
9Cl-PF3ONS	<1.04	1.04	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
L-PFDA	1.53	0.926	1.96	J	B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
L-8:2FTS	2.90	1.11	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
L-PFNS	<1.13	1.13	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
L-MeFOSAA	<0.931	0.931	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
Br-MeFOSAA	<0.931	0.931	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
Total MeFOSAA	<0.931	0.931	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
L-EtFOSAA	1.38	1.02	1.96	J, Q	B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
Br-EtFOSAA	<1.02	1.02	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
Total EtFOSAA	1.57	1.02	1.96	J	B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
L-PFUnA	<0.740	0.740	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
L-PFDS	<0.745	0.745	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
11Cl-PF3OUdS	<0.970	0.970	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
L-PFDoA	<0.955	0.955	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
L-MeFOSA	<2.19	2.19	2.45		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1

Sample ID: MW-4

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 13-Jul-22 14:40

Laboratory Data

Lab Sample: 2207164-04
Date Received: 15-Jul-22 09:10
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFTrDA	<0.642	0.642	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
PFDoS	<1.39	1.39	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
L-PFTeDA	<0.799	0.799	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
L-EtFOSA	<2.28	2.28	2.45		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
L-EtFOSE	<1.54	1.54	1.96		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
L-MeFOSE	<1.96	1.96	2.45		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	73.6	25 - 150		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
13C3-PFPeA	IS	90.3	25 - 150		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
13C3-PFBS	IS	94.3	25 - 150		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
13C3-HFPO-DA	IS	82.9	25 - 150		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
13C2-4:2 FTS	IS	83.5	25 - 150		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
13C2-PFHxA	IS	88.8	25 - 150		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
13C4-PFHpA	IS	85.3	25 - 150		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
13C3-PFHxS	IS	93.0	25 - 150		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
13C2-6:2 FTS	IS	77.1	25 - 150		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
13C5-PFNA	IS	85.7	25 - 150		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
13C8-PFOSA	IS	41.7	10 - 150		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
13C2-PFOA	IS	90.5	25 - 150		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
13C8-PFOS	IS	91.9	25 - 150		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
13C2-PFDA	IS	84.2	25 - 150		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
13C2-8:2 FTS	IS	100	25 - 150		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
d3-MeFOSAA	IS	85.8	25 - 150		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
13C2-PFUnA	IS	89.6	25 - 150		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
d5-EtFOSAA	IS	81.2	25 - 150		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
13C2-PFDoA	IS	78.3	25 - 150		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
d3-MeFOSA	IS	5.20	10 - 150	H	B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
13C2-PFTeDA	IS	70.2	25 - 150		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
d5-EtFOSA	IS	6.30	10 - 150	H	B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
d7-MeFOSE	IS	29.0	10 - 150		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1
d9-EtFOSE	IS	33.0	10 - 150		B22H045	08-Aug-22	0.255 L	11-Aug-22 00:05	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

Sample ID: MW-5

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 12-Jul-22 09:35

Laboratory Data

Lab Sample: 2207164-05
Date Received: 15-Jul-22 09:10
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	115	0.985	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
L-PFPeA	482	0.736	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
L-PFBS	13.0	0.883	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
L-4:2 FTS	<0.926	0.926	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
L-PFHxA	325	0.795	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
L-PFPeS	10.9	0.800	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
HFPO-DA	<1.53	1.53	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
L-PFHpA	128	0.912	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
ADONA	<0.624	0.624	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
L-PFHxS	39.9	1.00	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
Br-PFHxS	18.9	1.00	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
Total PFHxS	58.7	1.00	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
L-6:2 FTS	71.9	1.10	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
L-PFOA	74.4	0.931	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
Br-PFOA	11.2	0.931	1.95	Q	B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
Total PFOA	85.6	0.931	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
L-PFHpS	<0.580	0.580	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
L-PFNA	1.83	0.736	1.95	J	B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
L-PFOSA	10.4	1.06	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
L-PFOS	<1.10	1.10	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
Br-PFOS	5.05	1.10	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
Total PFOS	5.88	1.10	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
9Cl-PF3ONS	<1.04	1.04	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
L-PFDA	<0.922	0.922	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
L-8:2FTS	<1.11	1.11	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
L-PFNS	<1.13	1.13	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
L-MeFOSAA	<0.926	0.926	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
Br-MeFOSAA	<0.926	0.926	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
Total MeFOSAA	<0.926	0.926	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
L-EtFOSAA	<1.01	1.01	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
Br-EtFOSAA	<1.01	1.01	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
Total EtFOSAA	<1.01	1.01	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
L-PFUnA	<0.736	0.736	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
L-PFDS	<0.741	0.741	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
11Cl-PF3OUdS	<0.965	0.965	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
L-PFDoA	<0.951	0.951	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
L-MeFOSA	<2.18	2.18	2.44		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1

Sample ID: MW-5

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292

Matrix: Aqueous
Date Collected: 12-Jul-22 09:35

Laboratory Data

Lab Sample: 2207164-05
Date Received: 15-Jul-22 09:10

Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFTrDA	<0.639	0.639	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
PFDoS	<1.38	1.38	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
L-PFTeDA	<0.795	0.795	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
L-EtFOSA	<2.27	2.27	2.44		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
L-EtFOSE	<1.53	1.53	1.95		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
L-MeFOSE	<1.95	1.95	2.44		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	60.8	25 - 150		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
13C3-PFPeA	IS	78.4	25 - 150		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
13C3-PFBS	IS	85.3	25 - 150		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
13C3-HFPO-DA	IS	77.4	25 - 150		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
13C2-4:2 FTS	IS	83.1	25 - 150		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
13C2-PFHxA	IS	77.4	25 - 150		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
13C4-PFHpA	IS	88.0	25 - 150		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
13C3-PFHxS	IS	91.6	25 - 150		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
13C2-6:2 FTS	IS	89.5	25 - 150		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
13C5-PFNA	IS	90.6	25 - 150		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
13C8-PFOSA	IS	66.3	10 - 150		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
13C2-PFOA	IS	86.6	25 - 150		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
13C8-PFOS	IS	90.4	25 - 150		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
13C2-PFDA	IS	82.5	25 - 150		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
13C2-8:2 FTS	IS	113	25 - 150		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
d3-MeFOSAA	IS	81.9	25 - 150		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
13C2-PFUnA	IS	77.6	25 - 150		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
d5-EtFOSAA	IS	77.9	25 - 150		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
13C2-PFDoA	IS	69.3	25 - 150		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
d3-MeFOSA	IS	29.7	10 - 150		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
13C2-PFTeDA	IS	48.9	25 - 150		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
d5-EtFOSA	IS	25.1	10 - 150		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
d7-MeFOSE	IS	64.3	10 - 150		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1
d9-EtFOSE	IS	53.4	10 - 150		B22H045	08-Aug-22	0.256 L	11-Aug-22 00:16	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

Sample ID: MW-6

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 12-Jul-22 14:05

Laboratory Data

Lab Sample: 2207164-06
Date Received: 15-Jul-22 09:10
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	92.8	0.955	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
L-PFPeA	334	0.714	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
L-PFBS	10.3	0.856	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
L-4:2 FTS	1.15	0.898	1.89	J	B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
L-PFHxA	252	0.771	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
L-PFPeS	5.91	0.775	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
HFPO-DA	<1.48	1.48	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
L-PFHpA	131	0.884	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
ADONA	<0.605	0.605	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
L-PFHxS	34.3	0.974	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
Br-PFHxS	9.81	0.974	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
Total PFHxS	44.1	0.974	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
L-6:2 FTS	74.7	1.06	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
L-PFOA	79.8	0.903	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
Br-PFOA	9.06	0.903	1.89	Q	B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
Total PFOA	88.9	0.903	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
L-PFHpS	<0.563	0.563	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
L-PFNA	11.2	0.714	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
L-PFOSA	26.6	1.03	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
L-PFOS	3.43	1.07	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
Br-PFOS	9.43	1.07	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
Total PFOS	12.9	1.07	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
9Cl-PF3ONS	<1.01	1.01	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
L-PFDA	<0.894	0.894	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
L-8:2FTS	<1.07	1.07	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
L-PFNS	<1.09	1.09	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
L-MeFOSAA	<0.898	0.898	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
Br-MeFOSAA	<0.898	0.898	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
Total MeFOSAA	<0.898	0.898	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
L-EtFOSAA	<0.983	0.983	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
Br-EtFOSAA	<0.983	0.983	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
Total EtFOSAA	<0.983	0.983	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
L-PFUnA	<0.714	0.714	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
L-PFDS	<0.719	0.719	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
11Cl-PF3OUdS	<0.936	0.936	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
L-PFDoA	<0.922	0.922	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
L-MeFOSA	<2.12	2.12	2.36		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1

Sample ID: MW-6

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 12-Jul-22 14:05

Laboratory Data

Lab Sample: 2207164-06
Date Received: 15-Jul-22 09:10
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFTrDA	<0.619	0.619	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
PFDoS	<1.34	1.34	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
L-PFTeDA	<0.771	0.771	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
L-EtFOSA	<2.20	2.20	2.36		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
L-EtFOSE	<1.48	1.48	1.89		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
L-MeFOSE	<1.89	1.89	2.36		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	59.7	25 - 150		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
13C3-PFPeA	IS	73.1	25 - 150		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
13C3-PFBS	IS	81.8	25 - 150		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
13C3-HFPO-DA	IS	77.5	25 - 150		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
13C2-4:2 FTS	IS	76.1	25 - 150		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
13C2-PFHxA	IS	74.4	25 - 150		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
13C4-PFHpA	IS	75.9	25 - 150		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
13C3-PFHxS	IS	96.6	25 - 150		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
13C2-6:2 FTS	IS	85.3	25 - 150		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
13C5-PFNA	IS	76.0	25 - 150		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
13C8-PFOSA	IS	63.9	10 - 150		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
13C2-PFOA	IS	79.9	25 - 150		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
13C8-PFOS	IS	88.4	25 - 150		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
13C2-PFDA	IS	80.2	25 - 150		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
13C2-8:2 FTS	IS	88.1	25 - 150		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
d3-MeFOSAA	IS	85.2	25 - 150		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
13C2-PFUnA	IS	87.7	25 - 150		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
d5-EtFOSAA	IS	80.4	25 - 150		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
13C2-PFDoA	IS	71.4	25 - 150		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
d3-MeFOSA	IS	27.2	10 - 150		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
13C2-PFTeDA	IS	36.7	25 - 150		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
d5-EtFOSA	IS	21.4	10 - 150		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
d7-MeFOSE	IS	55.0	10 - 150		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1
d9-EtFOSE	IS	43.6	10 - 150		B22H045	08-Aug-22	0.264 L	11-Aug-22 00:26	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

Sample ID: MW-7 **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 13-Jul-22 07:20

Laboratory Data

Lab Sample: 2207164-07
Date Received: 15-Jul-22 09:10
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	102	0.959	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
L-PFPeA	396	0.717	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
L-PFBS	16.7	0.859	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
L-4:2 FTS	0.963	0.902	1.90	J	B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
L-PFHxA	276	0.774	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
L-PFPeS	17.3	0.779	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
HFPO-DA	<1.49	1.49	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
L-PFHpA	161	0.888	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
ADONA	<0.608	0.608	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
L-PFHxS	115	0.978	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
Br-PFHxS	30.0	0.978	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
Total PFHxS	145	0.978	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
L-6:2 FTS	162	1.07	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
L-PFOA	258	0.907	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
Br-PFOA	30.2	0.907	1.90	Q	B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
Total PFOA	288	0.907	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
L-PFHpS	1.46	0.565	1.90	J	B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
L-PFNA	4.96	0.717	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
L-PFOSA	12.1	1.03	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
L-PFOS	16.0	1.07	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
Br-PFOS	19.1	1.07	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
Total PFOS	35.1	1.07	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
9Cl-PF3ONS	<1.01	1.01	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
L-PFDA	<0.897	0.897	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
L-8:2FTS	<1.08	1.08	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
L-PFNS	<1.10	1.10	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
L-MeFOSAA	<0.902	0.902	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
Br-MeFOSAA	<0.902	0.902	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
Total MeFOSAA	<0.902	0.902	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
L-EtFOSAA	<0.987	0.987	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
Br-EtFOSAA	<0.987	0.987	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
Total EtFOSAA	1.37	0.987	1.90	J	B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
L-PFUnA	<0.717	0.717	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
L-PFDS	<0.722	0.722	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
11Cl-PF3OUdS	<0.940	0.940	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
L-PFDoA	<0.926	0.926	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
L-MeFOSA	<2.13	2.13	2.37		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1

Sample ID: MW-7 **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: 60662292

Matrix: Aqueous
Date Collected: 13-Jul-22 07:20

Laboratory Data

Lab Sample: 2207164-07
Date Received: 15-Jul-22 09:10

Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFTrDA	<0.622	0.622	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
PFDoS	<1.34	1.34	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
L-PFTeDA	<0.774	0.774	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
L-EtFOSA	<2.21	2.21	2.37		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
L-EtFOSE	<1.49	1.49	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
L-MeFOSE	<1.90	1.90	2.37		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	63.8	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
13C3-PFPeA	IS	67.8	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
13C3-PFBS	IS	66.6	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
13C3-HFPO-DA	IS	74.9	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
13C2-4:2 FTS	IS	72.5	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
13C2-PFHxA	IS	67.1	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
13C4-PFHpA	IS	63.7	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
13C3-PFHxS	IS	67.6	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
13C2-6:2 FTS	IS	68.8	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
13C5-PFNA	IS	51.7	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
13C8-PFOSA	IS	59.4	10 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
13C2-PFOA	IS	65.6	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
13C8-PFOS	IS	65.4	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
13C2-PFDA	IS	59.0	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
13C2-8:2 FTS	IS	83.8	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
d3-MeFOSAA	IS	61.6	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
13C2-PFUnA	IS	67.3	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
d5-EtFOSAA	IS	61.4	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
13C2-PFDoA	IS	63.1	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
d3-MeFOSA	IS	37.9	10 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
13C2-PFTeDA	IS	59.9	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
d5-EtFOSA	IS	32.7	10 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
d7-MeFOSE	IS	58.1	10 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1
d9-EtFOSE	IS	52.1	10 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:37	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

Sample ID: MW-8

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 13-Jul-22 13:35

Laboratory Data

Lab Sample: 2207164-08
Date Received: 15-Jul-22 09:10
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	79.9	0.970	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
L-PFPeA	330	0.725	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
L-PFBS	8.64	0.870	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
L-4:2 FTS	4.73	0.913	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
L-PFHxA	207	0.783	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
L-PFPeS	9.84	0.788	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
HFPO-DA	<1.50	1.50	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
L-PFHpA	80.1	0.898	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
ADONA	<0.615	0.615	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
L-PFHxS	101	0.990	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
Br-PFHxS	15.9	0.990	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
Total PFHxS	117	0.990	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
L-6:2 FTS	113	1.08	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
L-PFOA	270	0.918	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
Br-PFOA	23.7	0.918	1.92	Q	B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
Total PFOA	294	0.918	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
L-PFHpS	2.91	0.572	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
L-PFNA	5.14	0.725	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
L-PFOSA	13.7	1.05	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
L-PFOS	56.8	1.09	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
Br-PFOS	39.8	1.09	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
Total PFOS	96.6	1.09	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
9Cl-PF3ONS	<1.02	1.02	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
L-PFDA	1.36	0.908	1.92	J	B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
L-8:2FTS	<1.09	1.09	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
L-PFNS	<1.11	1.11	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
L-MeFOSAA	<0.913	0.913	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
Br-MeFOSAA	<0.913	0.913	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
Total MeFOSAA	<0.913	0.913	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
L-EtFOSAA	<0.999	0.999	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
Br-EtFOSAA	<0.999	0.999	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
Total EtFOSAA	<0.999	0.999	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
L-PFUnA	2.36	0.725	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
L-PFDS	<0.730	0.730	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
11Cl-PF3OUdS	<0.951	0.951	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
L-PFDoA	<0.937	0.937	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
L-MeFOSA	<2.15	2.15	2.40		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1

Sample ID: MW-8

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292

Matrix: Aqueous
Date Collected: 13-Jul-22 13:35

Laboratory Data

Lab Sample: 2207164-08
Date Received: 15-Jul-22 09:10

Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFTrDA	<0.629	0.629	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
PFDoS	<1.36	1.36	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
L-PFTeDA	<0.783	0.783	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
L-EtFOSA	<2.23	2.23	2.40		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
L-EtFOSE	<1.51	1.51	1.92		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
L-MeFOSE	<1.92	1.92	2.40		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	68.7	25 - 150		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
13C3-PFPeA	IS	78.9	25 - 150		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
13C3-PFBS	IS	75.7	25 - 150		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
13C3-HFPO-DA	IS	75.8	25 - 150		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
13C2-4:2 FTS	IS	84.6	25 - 150		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
13C2-PFHxA	IS	76.3	25 - 150		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
13C4-PFHpA	IS	85.6	25 - 150		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
13C3-PFHxS	IS	99.4	25 - 150		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
13C2-6:2 FTS	IS	88.2	25 - 150		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
13C5-PFNA	IS	86.6	25 - 150		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
13C8-PFOSA	IS	72.1	10 - 150		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
13C2-PFOA	IS	77.2	25 - 150		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
13C8-PFOS	IS	77.4	25 - 150		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
13C2-PFDA	IS	72.1	25 - 150		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
13C2-8:2 FTS	IS	87.5	25 - 150		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
d3-MeFOSAA	IS	86.0	25 - 150		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
13C2-PFUnA	IS	79.8	25 - 150		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
d5-EtFOSAA	IS	80.4	25 - 150		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
13C2-PFDoA	IS	79.4	25 - 150		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
d3-MeFOSA	IS	36.3	10 - 150		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
13C2-PFTeDA	IS	55.5	25 - 150		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
d5-EtFOSA	IS	30.5	10 - 150		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
d7-MeFOSE	IS	62.6	10 - 150		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1
d9-EtFOSE	IS	50.9	10 - 150		B22H045	08-Aug-22	0.260 L	11-Aug-22 00:47	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

Sample ID: MW-9 **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 12-Jul-22 08:30

Laboratory Data

Lab Sample: 2207164-09
Date Received: 15-Jul-22 09:10
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	81.6	0.962	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
L-PFPeA	296	0.719	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
L-PFBS	11.6	0.862	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
L-4:2 FTS	<0.904	0.904	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
L-PFHxA	209	0.776	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
L-PFPeS	11.1	0.781	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
HFPO-DA	<1.49	1.49	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
L-PFHpA	101	0.890	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
ADONA	<0.609	0.609	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
L-PFHxS	52.3	0.981	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
Br-PFHxS	17.2	0.981	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
Total PFHxS	69.5	0.981	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
L-6:2 FTS	60.9	1.07	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
L-PFOA	70.4	0.909	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
Br-PFOA	10.4	0.909	1.90	Q	B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
Total PFOA	80.8	0.909	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
L-PFHpS	<0.566	0.566	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
L-PFNA	1.34	0.719	1.90	J	B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
L-PFOSA	5.71	1.04	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
L-PFOS	1.52	1.08	1.90	J	B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
Br-PFOS	3.98	1.08	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
Total PFOS	5.50	1.08	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
9Cl-PF3ONS	<1.01	1.01	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
L-PFDA	<0.900	0.900	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
L-8:2FTS	<1.08	1.08	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
L-PFNS	<1.10	1.10	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
L-MeFOSAA	<0.904	0.904	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
Br-MeFOSAA	<0.904	0.904	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
Total MeFOSAA	<0.904	0.904	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
L-EtFOSAA	<0.990	0.990	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
Br-EtFOSAA	<0.990	0.990	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
Total EtFOSAA	<0.990	0.990	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
L-PFUnA	<0.719	0.719	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
L-PFDS	<0.724	0.724	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
11Cl-PF3OUdS	<0.942	0.942	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
L-PFDoA	<0.928	0.928	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
L-MeFOSA	<2.13	2.13	2.38		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1

Sample ID: MW-9

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292

Matrix: Aqueous
Date Collected: 12-Jul-22 08:30

Laboratory Data

Lab Sample: 2207164-09
Date Received: 15-Jul-22 09:10

Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFTrDA	<0.624	0.624	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
PFDoS	<1.35	1.35	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
L-PFTeDA	<0.776	0.776	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
L-EtFOSA	<2.21	2.21	2.38		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
L-EtFOSE	<1.49	1.49	1.90		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
L-MeFOSE	<1.90	1.90	2.38		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	64.3	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
13C3-PFPeA	IS	74.3	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
13C3-PFBS	IS	77.6	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
13C3-HFPO-DA	IS	71.8	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
13C2-4:2 FTS	IS	75.2	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
13C2-PFHxA	IS	70.6	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
13C4-PFHpA	IS	68.4	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
13C3-PFHxS	IS	85.9	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
13C2-6:2 FTS	IS	75.3	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
13C5-PFNA	IS	64.7	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
13C8-PFOSA	IS	59.5	10 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
13C2-PFOA	IS	69.0	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
13C8-PFOS	IS	71.0	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
13C2-PFDA	IS	70.4	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
13C2-8:2 FTS	IS	73.9	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
d3-MeFOSAA	IS	71.4	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
13C2-PFUnA	IS	81.9	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
d5-EtFOSAA	IS	71.6	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
13C2-PFDoA	IS	71.2	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
d3-MeFOSA	IS	42.7	10 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
13C2-PFTeDA	IS	55.2	25 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
d5-EtFOSA	IS	37.2	10 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
d7-MeFOSE	IS	54.5	10 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1
d9-EtFOSE	IS	52.8	10 - 150		B22H045	08-Aug-22	0.263 L	11-Aug-22 00:58	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

Sample ID: MW-10

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 12-Jul-22 13:05

Laboratory Data

Lab Sample: 2207164-10
Date Received: 15-Jul-22 09:10
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	59.9	1.06	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
L-PFPeA	204	0.793	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
L-PFBS	8.35	0.951	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
L-4:2 FTS	<0.998	0.998	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
L-PFHxA	144	0.856	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
L-PFPeS	4.38	0.861	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
HFPO-DA	<1.64	1.64	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
L-PFHpA	76.8	0.982	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
ADONA	<0.672	0.672	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
L-PFHxS	58.9	1.08	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
Br-PFHxS	11.3	1.08	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
Total PFHxS	70.1	1.08	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
L-6:2 FTS	110	1.18	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
L-PFOA	98.7	1.00	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
Br-PFOA	7.50	1.00	2.10	Q	B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
Total PFOA	106	1.00	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
L-PFHpS	0.657	0.625	2.10	J	B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
L-PFNA	3.10	0.793	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
L-PFOSA	27.8	1.14	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
L-PFOS	10.7	1.19	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
Br-PFOS	10.5	1.19	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
Total PFOS	21.3	1.19	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
9Cl-PF3ONS	<1.12	1.12	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
L-PFDA	<0.993	0.993	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
L-8:2FTS	<1.19	1.19	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
L-PFNS	<1.21	1.21	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
L-MeFOSAA	<0.998	0.998	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
Br-MeFOSAA	<0.998	0.998	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
Total MeFOSAA	<0.998	0.998	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
L-EtFOSAA	1.09	1.09	2.10	J, Q	B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
Br-EtFOSAA	<1.09	1.09	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
Total EtFOSAA	2.09	1.09	2.10	J	B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
L-PFUnA	<0.793	0.793	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
L-PFDS	<0.798	0.798	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
11Cl-PF3OUdS	<1.04	1.04	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
L-PFDoA	<1.02	1.02	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
L-MeFOSA	<2.35	2.35	2.63		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1

Sample ID: MW-10

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292

Matrix: Aqueous
Date Collected: 12-Jul-22 13:05

Laboratory Data

Lab Sample: 2207164-10
Date Received: 15-Jul-22 09:10

Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFTrDA	<0.688	0.688	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
PFDoS	<1.49	1.49	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
L-PFTeDA	<0.856	0.856	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
L-EtFOSA	<2.44	2.44	2.63		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
L-EtFOSE	<1.65	1.65	2.10		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
L-MeFOSE	<2.10	2.10	2.63		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	75.9	25 - 150		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
13C3-PFPeA	IS	79.7	25 - 150		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
13C3-PFBS	IS	85.6	25 - 150		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
13C3-HFPO-DA	IS	77.2	25 - 150		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
13C2-4:2 FTS	IS	93.0	25 - 150		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
13C2-PFHxA	IS	84.1	25 - 150		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
13C4-PFHpA	IS	84.6	25 - 150		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
13C3-PFHxS	IS	99.0	25 - 150		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
13C2-6:2 FTS	IS	92.3	25 - 150		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
13C5-PFNA	IS	87.8	25 - 150		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
13C8-PFOSA	IS	62.9	10 - 150		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
13C2-PFOA	IS	86.8	25 - 150		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
13C8-PFOS	IS	91.6	25 - 150		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
13C2-PFDA	IS	78.4	25 - 150		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
13C2-8:2 FTS	IS	108	25 - 150		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
d3-MeFOSAA	IS	88.0	25 - 150		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
13C2-PFUnA	IS	88.6	25 - 150		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
d5-EtFOSAA	IS	84.5	25 - 150		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
13C2-PFDoA	IS	78.2	25 - 150		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
d3-MeFOSA	IS	31.6	10 - 150		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
13C2-PFTeDA	IS	66.9	25 - 150		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
d5-EtFOSA	IS	26.9	10 - 150		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
d7-MeFOSE	IS	63.6	10 - 150		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1
d9-EtFOSE	IS	54.9	10 - 150		B22H045	08-Aug-22	0.238 L	11-Aug-22 01:08	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Vista Analytical Laboratory Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Massachusetts Department of Environmental Protection	M-CA413
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	2211390
New Hampshire Environmental Accreditation Program	207721
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-021
Pennsylvania Department of Environmental Protection	018
Texas Commission on Environmental Quality	T104704189-22-13
Vermont Department of Health	VT-4042
Virginia Department of General Services	11276
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.

NELAP Accredited Test Methods

MATRIX: Air	
Description of Test	**Method**
Determination of Polychlorinated p- Dioxins & Polychlorinated Dibenzofurans	EPA 23
Polychlorinated Dibenzodioxins in Ambient Air by GC/HRMS	EPA TO-9A

MATRIX: Biological Tissue	
Description of Test	**Method**
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Drinking Water	
Description of Test	**Method**
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613/1613B
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537.1
Determination of Per- and Polyfluoroalkyl Substances in Drinking Water by Isotope Dilution Anion Exchange Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry	EPA 533
Perfluorooctanesulonate (PFOS) and Perfluorooctanoate (PFOA) - Method for Unfiltered Samples Using Solid Phase Extraction and Liquid Chromatography/Mass Spectrometry	ISO 25101 2009

MATRIX: Non-Potable Water	
Description of Test	**Method**
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Dioxin by GC/HRMS	EPA 613
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Solids	
Description of Test	**Method**
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

Vista Analytical Laboratory

CHAIN OF CUSTODY

For Laboratory Use Only
Work Order #: 2207164 Temp: 4.7 °C
Storage ID: R-13, WR-2 Storage Secured: Yes ☒ No ☐

Project ID: 606062292 PO#: Sampler: Leslie Bychinski (name)

TAT (check one): Standard: ☐ 21 days; Rush (surcharge may apply) ☐ 14 days ☐ 7 days Specify:

Leslie Bychinski Leslie Bychinski 7/14/2022 1100 Sarah Hegenbart 07/15/22 0910
Relinquished by (printed name and signature) Date Time Received by (printed name and signature) Date Time

Relinquished by (printed name and signature) Date Time Received by (printed name and signature) Date Time

SHIP TO: Vista Analytical Laboratory
1104 Windfield Way
El Dorado Hills, CA 95762
(916) 673-1520 * Fax (916) 673-0106

ATTN:

Method of Shipment:

Tracking No.:

Add Analysis(es) Requested

Sample ID	Date	Time	Location/ Sample Description	Container(s) Quantity	Type	Matrix	PFOA/ PFOS	UCMR3 PFAS List:6	537.1 List: 14 or 18 (Circle One)	EPA Draft List of 24	OTHER: Please attach analyte list	PFAS by Isotope Dilution: PFOA/ PFOS	PFAS by Isotope Dilution: UCMR3 PFAS List:6	PFAS by Isotope Dilution: 537.1 List of 14	PFAS by Isotope Dilution: 537.1 List of 18	EPA Method 537 (DW only)	Comments
MW-1	7/12/22	1035		2	P	AQ					*						
MW-2	7/12/22	1515		2	P	AQ					*						
MW-3	7/12/22	1615		2	P	AQ					*						
MW-4	7/13/22	1440		2	P	AQ					*						
MW-5	7/12/22	0935		2	P	AQ					*						
MW-6	7/12/22	1405		2	P	AQ					*						
MW-7	7/13/22	0720		2	P	AQ					*						
MW-8	7/13/22	1335		2	P	AQ					*						
MW-9	7/12/22	0830		2	P	AQ					*						
MW-10	7/12/22	1305		2	P	AQ					*						

Special Instructions/Comment
*33 compounds per WI guidance document

SEND DOCUMENTATION AND RESULTS TO:
Name: Andrew Mott
Company: AECOM
Address: 1555 N. Rivercenter Dr. Ste 214
City: Milwaukee State: WI Zip: 53212
Phone: 920-379-6024
Email: andrew.mott@aecom.com

Container Types: P = HDPE, PJ = HDPE Jar, PY = Polypropylene, O= Other

Bottle Preservation Type: TZ= Trizma:

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other

Vista Analytical Laboratory

Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 2207164 **TAT** Std

Samples Arrival:	**Date/Time** 07/15/22 0910		**Initials:** Stt		**Location:** WR-2 **Shelf/Rack:** DA		
Delivered By:	(FedEx)	UPS	On Trac	GLS	DHL	Hand Delivered	Other
Preservation:	(Ice)		Blue Ice		Techni Ice	Dry Ice	None
Temp °C: 4.9 (uncorrected) **Temp °C:** 4.7 (corrected)			**Probe used: Y / (N)**			**Thermometer ID:** IR-3	

	YES	NO	NA
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Airbill ~~Airbill~~ Trk # 2755 5024 4371	✓		
Shipping Documentation Present?	✓		
Shipping Container: (Vista) Client (Retain) Return Dispose			
Chain of Custody / Sample Documentation Present?	✓		
Chain of Custody / Sample Documentation Complete?	✓		
Holding Time Acceptable?	✓		

Logged In:	**Date/Time** 07/21/22 13:10	**Initials:**	**Location:** R-13, WR-2 **Shelf/Rack:** A-3, F-4
COC Anomaly/Sample Acceptance Form completed?		✓	✓

Comments:

CoC/Label Reconciliation Report WO# 2207164

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2207164-01	A MW-1		12-Jul-22 10:35	HDPE Bottle, 250 mL	Aqueous	
2207164-01	B MW-1		12-Jul-22 10:35	HDPE Bottle, 250 mL	Aqueous	
2207164-02	A MW-2		12-Jul-22 15:15	HDPE Bottle, 250 mL	Aqueous	
2207164-02	B MW-2		12-Jul-22 15:15	HDPE Bottle, 250 mL	Aqueous	
2207164-03	A MW-3		12-Jul-22 16:15	HDPE Bottle, 250 mL	Aqueous	
2207164-03	B MW-3		12-Jul-22 16:15	HDPE Bottle, 250 mL	Aqueous	
2207164-04	A MW-4		13-Jul-22 14:40	HDPE Bottle, 250 mL	Aqueous	
2207164-04	B MW-4		13-Jul-22 14:40	HDPE Bottle, 250 mL	Aqueous	
2207164-05	A MW-5		12-Jul-22 09:35	HDPE Bottle, 250 mL	Aqueous	
2207164-05	B MW-5		12-Jul-22 09:35	HDPE Bottle, 250 mL	Aqueous	
2207164-06	A MW-6		12-Jul-22 14:05	HDPE Bottle, 250 mL	Aqueous	
2207164-06	B MW-6		12-Jul-22 14:05	HDPE Bottle, 250 mL	Aqueous	
2207164-07	A MW-7		13-Jul-22 07:20	HDPE Bottle, 250 mL	Aqueous	
2207164-07	B MW-7		13-Jul-22 07:20	HDPE Bottle, 250 mL	Aqueous	
2207164-08	A MW-8		13-Jul-22 13:35	HDPE Bottle, 250 mL	Aqueous	
2207164-08	B MW-8		13-Jul-22 13:35	HDPE Bottle, 250 mL	Aqueous	
2207164-09	A MW-9		12-Jul-22 08:30	HDPE Bottle, 250 mL	Aqueous	
2207164-09	B MW-9		12-Jul-22 08:30	HDPE Bottle, 250 mL	Aqueous	
2207164-10	A MW-10		12-Jul-22 13:05	HDPE Bottle, 250 mL	Aqueous	
2207164-10	B MW-10		12-Jul-22 13:05	HDPE Bottle, 250 mL	Aqueous	

Checkmarks indicate that information on the COC reconciled with the sample label.
Any discrepancies are noted in the following columns.

	Yes	No	NA	Comments:
Sample Container Intact?	✓			
Sample Custody Seals Intact?		✓	✓	
Adequate Sample Volume?	✓			
Container Type Appropriate for Analysis(es)	✓			

Preservation Documented: Na2S2O3 Trizma NH4CH3CO2 (None) Other

Verifed by/Date: SH 07/21/22

August 29, 2022

Vista Work Order No. 2207165

Ms. Janel Dean
AECOM
558 North Main Street
Oshkosh, WI 54901

Dear Ms. Dean,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on July 15, 2022 under your Project Name '60662292'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at kvolpendesta@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Karen L. Volpendesta
Project Manager

Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 2207165
Case Narrative

Sample Condition on Receipt:

Eleven aqueous samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The samples were received in good condition and within the recommended temperature requirements. As requested, samples "FB2022.07.12", "FB2022.07.13", "EQ2022.07.12" and "EQ2022.07.13" were reported as non-linear/ branched/ total.

Analytical Notes:

PFAS Isotope Dilution Method

The following samples contained particulate and were centrifuged prior to extraction:

Laboratory ID	Sample Name
2207165-01	MW-12
2207165-02	MW-13
2207165-03	MW-14
2207165-04	MW-15
2207165-05	MW-16
2207165-06	MW-12 DUP
2207165-09	MW-11

The samples were extracted and analyzed for a selected list of PFAS using Vista's PFAS Isotope Dilution Method. The results for PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Results for all other analytes include the linear isomers only.

Holding Times

The samples were extracted and analyzed within the hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above the Reporting Limit. The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries for all QC and field samples were within the acceptance criteria.

TABLE OF CONTENTS

Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2207165-01	MW-12	13-Jul-22 12:25	15-Jul-22 09:10	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
2207165-02	MW-13	12-Jul-22 07:20	15-Jul-22 09:10	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
2207165-03	MW-14	12-Jul-22 12:10	15-Jul-22 09:10	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
2207165-04	MW-15	13-Jul-22 09:25	15-Jul-22 09:10	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
2207165-05	MW-16	13-Jul-22 10:55	15-Jul-22 09:10	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
2207165-06	MW-12 DUP	13-Jul-22 12:25	15-Jul-22 09:10	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
2207165-07	FB2022.07.12	12-Jul-22 09:55	15-Jul-22 09:10	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
2207165-08	FB2022.07.13	13-Jul-22 10:40	15-Jul-22 09:10	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
2207165-09	MW-11	13-Jul-22 08:15	15-Jul-22 09:10	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
2207165-10	EQ2022.07.12	12-Jul-22 12:25	15-Jul-22 09:10	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL
2207165-11	EQ2022.07.13	13-Jul-22 11:25	15-Jul-22 09:10	HDPE Bottle, 250 mL
				HDPE Bottle, 250 mL

ANALYTICAL RESULTS

Sample ID: Method Blank **PFAS Isotope Dilution Method**

Client Data
Name: AECOM
Project: 60662292
Matrix: Aqueous

Laboratory Data
Lab Sample: B22H049-BLK1
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	<1.01	1.01	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
L-PFPeA	<0.755	0.755	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
L-PFBS	<0.905	0.905	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
L-4:2 FTS	<0.950	0.950	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
L-PFHxA	<0.815	0.815	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
L-PFPeS	<0.820	0.820	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
HFPO-DA	<1.57	1.57	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
L-PFHpA	<0.935	0.935	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
ADONA	<0.640	0.640	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
L-PFHxS	<1.03	1.03	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
Br-PFHxS	<1.03	1.03	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
Total PFHxS	<1.03	1.03	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
L-6:2 FTS	<1.13	1.13	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
L-PFOA	<0.955	0.955	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
Br-PFOA	<0.955	0.955	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
Total PFOA	<0.955	0.955	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
L-PFHpS	<0.595	0.595	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
L-PFNA	<0.755	0.755	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
L-PFOSA	<1.09	1.09	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
L-PFOS	<1.13	1.13	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
Br-PFOS	<1.13	1.13	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
Total PFOS	<1.13	1.13	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
9Cl-PF3ONS	<1.07	1.07	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
L-PFDA	<0.945	0.945	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
L-8:2FTS	<1.14	1.14	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
L-PFNS	<1.16	1.16	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
L-MeFOSAA	<0.950	0.950	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
Br-MeFOSAA	<0.950	0.950	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
Total MeFOSAA	<0.950	0.950	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
L-EtFOSAA	<1.04	1.04	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
Br-EtFOSAA	<1.04	1.04	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
Total EtFOSAA	<1.04	1.04	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
L-PFUnA	<0.755	0.755	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
L-PFDS	<0.760	0.760	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
11Cl-PF3OUdS	<0.990	0.990	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
L-PFDoA	<0.975	0.975	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
L-MeFOSA	<2.24	2.24	2.50		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
L-PFTrDA	<0.655	0.655	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1

Sample ID: Method Blank **PFAS Isotope Dilution Method**

Client Data
Name: AECOM
Project: 60662292
Matrix: Aqueous

Laboratory Data
Lab Sample: B22H049-BLK1
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFDoS	<1.42	1.42	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
L-PFTeDA	<0.815	0.815	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
L-EtFOSA	<2.33	2.33	2.50		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
L-EtFOSE	<1.57	1.57	2.00		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
L-MeFOSE	<2.00	2.00	2.50		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	90.6	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
13C3-PFPeA	IS	78.6	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
13C3-PFBS	IS	71.9	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
13C3-HFPO-DA	IS	74.8	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
13C2-4:2 FTS	IS	76.1	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
13C2-PFHxA	IS	77.0	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
13C4-PFHpA	IS	75.0	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
13C3-PFHxS	IS	86.4	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
13C2-6:2 FTS	IS	72.0	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
13C5-PFNA	IS	72.7	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
13C8-PFOSA	IS	45.9	10 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
13C2-PFOA	IS	72.4	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
13C8-PFOS	IS	71.3	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
13C2-PFDA	IS	64.7	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
13C2-8:2 FTS	IS	76.9	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
d3-MeFOSAA	IS	64.6	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
13C2-PFUnA	IS	65.1	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
d5-EtFOSAA	IS	56.1	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
13C2-PFDoA	IS	68.0	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
d3-MeFOSA	IS	13.3	10 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
13C2-PFTeDA	IS	52.5	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
d5-EtFOSA	IS	12.6	10 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
d7-MeFOSE	IS	30.7	10 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1
d9-EtFOSE	IS	29.1	10 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:24	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

Sample ID: OPR **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: 60662292

Matrix: Aqueous

Laboratory Data

Lab Sample: B22H049-BS1 Column: BEH C18

Analyte	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	3.96	4.00	99.0	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
L-PFPeA	4.26	4.00	107	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
L-PFBS	4.43	4.00	111	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
L-4:2 FTS	5.02	4.00	125	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
L-PFHxA	3.91	4.00	97.8	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
L-PFPeS	4.28	4.00	107	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
HFPO-DA	4.13	4.00	103	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
L-PFHpA	4.57	4.00	114	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
ADONA	3.71	4.00	92.7	50 - 150	Q	B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
Total PFHxS	3.67	4.00	91.8	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
L-6:2 FTS	3.62	4.00	90.4	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
Total PFOA	4.05	4.00	101	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
L-PFHpS	4.26	4.00	106	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
L-PFNA	4.20	4.00	105	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
L-PFOSA	4.71	4.00	118	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
Total PFOS	3.35	4.00	83.7	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
9Cl-PF3ONS	4.28	4.00	107	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
L-PFDA	4.36	4.00	109	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
L-8:2FTS	3.84	4.00	96.0	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
L-PFNS	4.50	4.00	112	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
Total MeFOSAA	3.76	4.00	94.1	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
Total EtFOSAA	3.68	4.00	92.1	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
L-PFUnA	3.81	4.00	95.2	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
L-PFDS	4.79	4.00	120	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
11Cl-PF3OUdS	4.06	4.00	102	50 - 150	Q	B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
L-PFDoA	4.42	4.00	110	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
L-MeFOSA	3.72	4.00	93.1	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
L-PFTrDA	3.79	4.00	94.9	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
PFDoS	4.14	4.00	104	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
L-PFTeDA	4.61	4.00	115	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
L-EtFOSA	4.97	4.00	124	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1

Sample ID: OPR

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292

Matrix: Aqueous

Laboratory Data

Lab Sample: B22H049-BS1

Column: BEH C18

Analyte	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-EtFOSE	5.37	4.00	134	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
L-MeFOSE	5.17	4.00	129	50 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	96.7	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
13C3-PFPeA	IS	79.9	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
13C3-PFBS	IS	78.6	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
13C3-HFPO-DA	IS	85.4	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
13C2-4:2 FTS	IS	67.5	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
13C2-PFHxA	IS	85.1	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
13C4-PFHpA	IS	84.4	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
13C3-PFHxS	IS	91.7	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
13C2-6:2 FTS	IS	77.5	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
13C5-PFNA	IS	83.8	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
13C8-PFOSA	IS	52.3	10 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
13C2-PFOA	IS	80.5	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
13C8-PFOS	IS	80.0	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
13C2-PFDA	IS	81.9	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
13C2-8:2 FTS	IS	77.0	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
d3-MeFOSAA	IS	72.7	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
13C2-PFUnA	IS	87.9	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
d5-EtFOSAA	IS	67.9	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
13C2-PFDoA	IS	74.1	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
d3-MeFOSA	IS	21.8	10 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
13C2-PFTeDA	IS	56.2	25 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
d5-EtFOSA	IS	20.8	10 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
d7-MeFOSE	IS	38.5	10 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1
d9-EtFOSE	IS	37.2	10 - 150		B22H049	08-Aug-22	0.250 L	10-Aug-22 20:35	1

Sample ID: MW-12 **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 13-Jul-22 12:25

Laboratory Data

Lab Sample: 2207165-01
Date Received: 15-Jul-22 09:10
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	72.6	0.979	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
L-PFPeA	215	0.732	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
L-PFBS	6.04	0.877	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
L-4:2 FTS	<0.920	0.920	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
L-PFHxA	156	0.790	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
L-PFPeS	1.54	0.795	1.94	J	B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
HFPO-DA	<1.52	1.52	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
L-PFHpA	61.6	0.906	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
ADONA	<0.620	0.620	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
L-PFHxS	1.77	0.998	1.94	J	B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
Br-PFHxS	<0.998	0.998	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
Total PFHxS	1.77	0.998	1.94	J	B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
L-6:2 FTS	5.07	1.09	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
L-PFOA	64.2	0.925	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
Br-PFOA	4.75	0.925	1.94	Q	B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
Total PFOA	68.9	0.925	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
L-PFHpS	<0.577	0.577	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
L-PFNA	<0.732	0.732	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
L-PFOSA	42.8	1.06	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
L-PFOS	<1.09	1.09	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
Br-PFOS	1.59	1.09	1.94	J	B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
Total PFOS	1.92	1.09	1.94	J	B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
9Cl-PF3ONS	<1.03	1.03	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
L-PFDA	<0.916	0.916	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
L-8:2FTS	<1.10	1.10	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
L-PFNS	<1.12	1.12	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
L-MeFOSAA	<0.920	0.920	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
Br-MeFOSAA	<0.920	0.920	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
Total MeFOSAA	<0.920	0.920	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
L-EtFOSAA	<1.01	1.01	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
Br-EtFOSAA	<1.01	1.01	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
Total EtFOSAA	<1.01	1.01	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
L-PFUnA	<0.732	0.732	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
L-PFDS	<0.736	0.736	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
11Cl-PF3OUdS	<0.959	0.959	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
L-PFDoA	<0.945	0.945	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
L-MeFOSA	<2.17	2.17	2.42		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1

Sample ID: MW-12 **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 13-Jul-22 12:25

Laboratory Data

Lab Sample: 2207165-01
Date Received: 15-Jul-22 09:10
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFTrDA	<0.635	0.635	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
PFDoS	<1.37	1.37	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
L-PFTeDA	<0.790	0.790	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
L-EtFOSA	<2.25	2.25	2.42		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
L-EtFOSE	<1.52	1.52	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
L-MeFOSE	<1.94	1.94	2.42		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	87.4	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
13C3-PFPeA	IS	84.6	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
13C3-PFBS	IS	88.6	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
13C3-HFPO-DA	IS	84.5	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
13C2-4:2 FTS	IS	80.5	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
13C2-PFHxA	IS	86.7	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
13C4-PFHpA	IS	80.3	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
13C3-PFHxS	IS	91.0	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
13C2-6:2 FTS	IS	85.9	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
13C5-PFNA	IS	81.9	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
13C8-PFOSA	IS	49.1	10 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
13C2-PFOA	IS	84.4	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
13C8-PFOS	IS	91.4	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
13C2-PFDA	IS	74.2	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
13C2-8:2 FTS	IS	86.1	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
d3-MeFOSAA	IS	71.0	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
13C2-PFUnA	IS	76.2	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
d5-EtFOSAA	IS	75.6	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
13C2-PFDoA	IS	71.5	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
d3-MeFOSA	IS	12.5	10 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
13C2-PFTeDA	IS	62.7	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
d5-EtFOSA	IS	12.6	10 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
d7-MeFOSE	IS	45.4	10 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1
d9-EtFOSE	IS	43.7	10 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 20:45	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

Sample ID: MW-13

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 12-Jul-22 07:20

Laboratory Data

Lab Sample: 2207165-02
Date Received: 15-Jul-22 09:10
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	76.7	0.969	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
L-PFPeA	232	0.725	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
L-PFBS	10.0	0.869	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
L-4:2 FTS	<0.912	0.912	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
L-PFHxA	146	0.782	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
L-PFPeS	6.08	0.787	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
HFPO-DA	<1.50	1.50	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
L-PFHpA	87.4	0.897	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
ADONA	<0.614	0.614	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
L-PFHxS	49.0	0.989	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
Br-PFHxS	10.8	0.989	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
Total PFHxS	59.8	0.989	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
L-6:2 FTS	132	1.08	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
L-PFOA	62.1	0.917	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
Br-PFOA	5.84	0.917	1.92	Q	B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
Total PFOA	67.9	0.917	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
L-PFHpS	<0.571	0.571	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
L-PFNA	4.82	0.725	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
L-PFOSA	22.5	1.05	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
L-PFOS	7.79	1.08	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
Br-PFOS	8.52	1.08	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
Total PFOS	16.3	1.08	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
9Cl-PF3ONS	<1.02	1.02	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
L-PFDA	<0.907	0.907	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
L-8:2FTS	<1.09	1.09	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
L-PFNS	<1.11	1.11	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
L-MeFOSAA	<0.912	0.912	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
Br-MeFOSAA	<0.912	0.912	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
Total MeFOSAA	<0.912	0.912	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
L-EtFOSAA	<0.998	0.998	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
Br-EtFOSAA	<0.998	0.998	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
Total EtFOSAA	<0.998	0.998	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
L-PFUnA	<0.725	0.725	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
L-PFDS	<0.729	0.729	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
11Cl-PF3OUdS	<0.950	0.950	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
L-PFDoA	<0.936	0.936	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
L-MeFOSA	<2.15	2.15	2.40		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1

Sample ID: MW-13

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 12-Jul-22 07:20

Laboratory Data

Lab Sample: 2207165-02
Date Received: 15-Jul-22 09:10
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFTrDA	<0.629	0.629	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
PFDoS	<1.36	1.36	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
L-PFTeDA	<0.782	0.782	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
L-EtFOSA	<2.23	2.23	2.40		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
L-EtFOSE	<1.51	1.51	1.92		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
L-MeFOSE	<1.92	1.92	2.40		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	73.3	25 - 150		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
13C3-PFPeA	IS	85.9	25 - 150		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
13C3-PFBS	IS	83.6	25 - 150		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
13C3-HFPO-DA	IS	64.2	25 - 150		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
13C2-4:2 FTS	IS	86.2	25 - 150		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
13C2-PFHxA	IS	86.2	25 - 150		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
13C4-PFHpA	IS	76.7	25 - 150		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
13C3-PFHxS	IS	92.1	25 - 150		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
13C2-6:2 FTS	IS	82.3	25 - 150		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
13C5-PFNA	IS	71.4	25 - 150		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
13C8-PFOSA	IS	55.2	10 - 150		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
13C2-PFOA	IS	78.8	25 - 150		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
13C8-PFOS	IS	95.9	25 - 150		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
13C2-PFDA	IS	87.5	25 - 150		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
13C2-8:2 FTS	IS	97.6	25 - 150		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
d3-MeFOSAA	IS	74.2	25 - 150		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
13C2-PFUnA	IS	89.9	25 - 150		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
d5-EtFOSAA	IS	79.4	25 - 150		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
13C2-PFDoA	IS	76.0	25 - 150		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
d3-MeFOSA	IS	10.7	10 - 150		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
13C2-PFTeDA	IS	83.3	25 - 150		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
d5-EtFOSA	IS	11.8	10 - 150		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
d7-MeFOSE	IS	50.8	10 - 150		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1
d9-EtFOSE	IS	53.4	10 - 150		B22H049	08-Aug-22	0.260 L	10-Aug-22 20:56	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

Sample ID: MW-14

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 12-Jul-22 12:10

Laboratory Data

Lab Sample: 2207165-03
Date Received: 15-Jul-22 09:10
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	59.0	0.978	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
L-PFPeA	147	0.731	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
L-PFBS	3.69	0.876	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
L-4:2 FTS	<0.920	0.920	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
L-PFHxA	104	0.789	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
L-PFPeS	<0.794	0.794	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
HFPO-DA	<1.52	1.52	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
L-PFHpA	81.3	0.905	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
ADONA	<0.620	0.620	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
L-PFHxS	12.3	0.997	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
Br-PFHxS	1.95	0.997	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
Total PFHxS	14.2	0.997	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
L-6:2 FTS	7.62	1.09	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
L-PFOA	28.3	0.925	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
Br-PFOA	2.20	0.925	1.94	Q	B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
Total PFOA	30.5	0.925	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
L-PFHpS	<0.576	0.576	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
L-PFNA	2.54	0.731	1.94	Q	B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
L-PFOSA	30.7	1.06	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
L-PFOS	3.80	1.09	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
Br-PFOS	3.70	1.09	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
Total PFOS	7.50	1.09	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
9Cl-PF3ONS	<1.03	1.03	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
L-PFDA	<0.915	0.915	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
L-8:2FTS	<1.10	1.10	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
L-PFNS	<1.12	1.12	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
L-MeFOSAA	<0.920	0.920	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
Br-MeFOSAA	<0.920	0.920	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
Total MeFOSAA	<0.920	0.920	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
L-EtFOSAA	1.35	1.01	1.94	J, Q	B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
Br-EtFOSAA	<1.01	1.01	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
Total EtFOSAA	1.61	1.01	1.94	J	B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
L-PFUnA	<0.731	0.731	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
L-PFDS	<0.736	0.736	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
11Cl-PF3OUdS	<0.959	0.959	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
L-PFDoA	<0.944	0.944	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
L-MeFOSA	<2.17	2.17	2.42		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1

Sample ID: MW-14 **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 12-Jul-22 12:10

Laboratory Data

Lab Sample: 2207165-03
Date Received: 15-Jul-22 09:10
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFTrDA	<0.634	0.634	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
PFDoS	<1.37	1.37	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
L-PFTeDA	<0.789	0.789	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
L-EtFOSA	<2.25	2.25	2.42		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
L-EtFOSE	<1.52	1.52	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
L-MeFOSE	<1.94	1.94	2.42		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	71.9	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
13C3-PFPeA	IS	75.0	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
13C3-PFBS	IS	80.6	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
13C3-HFPO-DA	IS	75.5	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
13C2-4:2 FTS	IS	76.0	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
13C2-PFHxA	IS	71.7	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
13C4-PFHpA	IS	68.9	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
13C3-PFHxS	IS	74.0	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
13C2-6:2 FTS	IS	71.4	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
13C5-PFNA	IS	75.8	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
13C8-PFOSA	IS	58.5	10 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
13C2-PFOA	IS	66.3	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
13C8-PFOS	IS	71.4	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
13C2-PFDA	IS	75.4	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
13C2-8:2 FTS	IS	71.4	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
d3-MeFOSAA	IS	71.5	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
13C2-PFUnA	IS	69.0	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
d5-EtFOSAA	IS	65.5	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
13C2-PFDoA	IS	65.9	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
d3-MeFOSA	IS	31.2	10 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
13C2-PFTeDA	IS	63.8	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
d5-EtFOSA	IS	29.3	10 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
d7-MeFOSE	IS	58.5	10 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1
d9-EtFOSE	IS	55.3	10 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:06	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

Sample ID: MW-15 **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 13-Jul-22 09:25

Laboratory Data

Lab Sample: 2207165-04
Date Received: 15-Jul-22 09:10
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	65.2	0.979	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
L-PFPeA	208	0.732	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
L-PFBS	10.6	0.878	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
L-4:2 FTS	1.03	0.921	1.94	J	B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
L-PFHxA	165	0.790	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
L-PFPeS	23.6	0.795	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
HFPO-DA	<1.52	1.52	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
L-PFHpA	135	0.907	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
ADONA	<0.621	0.621	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
L-PFHxS	183	0.999	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
Br-PFHxS	30.6	0.999	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
Total PFHxS	213	0.999	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
L-6:2 FTS	170	1.09	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
L-PFOA	235	0.926	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
Br-PFOA	30.6	0.926	1.94	Q	B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
Total PFOA	265	0.926	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
L-PFHpS	3.86	0.577	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
L-PFNA	2.59	0.732	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
L-PFOSA	17.0	1.06	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
L-PFOS	19.7	1.10	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
Br-PFOS	16.5	1.10	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
Total PFOS	36.1	1.10	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
9Cl-PF3ONS	<1.03	1.03	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
L-PFDA	<0.916	0.916	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
L-8:2FTS	<1.10	1.10	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
L-PFNS	<1.12	1.12	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
L-MeFOSAA	<0.921	0.921	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
Br-MeFOSAA	<0.921	0.921	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
Total MeFOSAA	<0.921	0.921	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
L-EtFOSAA	<1.01	1.01	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
Br-EtFOSAA	<1.01	1.01	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
Total EtFOSAA	<1.01	1.01	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
L-PFUnA	<0.732	0.732	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
L-PFDS	<0.737	0.737	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
11Cl-PF3OUdS	<0.960	0.960	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
L-PFDoA	<0.946	0.946	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
L-MeFOSA	<2.17	2.17	2.42		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1

Sample ID: MW-15

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 13-Jul-22 09:25

Laboratory Data

Lab Sample: 2207165-04
Date Received: 15-Jul-22 09:10
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFTrDA	<0.635	0.635	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
PFDoS	<1.37	1.37	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
L-PFTeDA	<0.790	0.790	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
L-EtFOSA	<2.25	2.25	2.42		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
L-EtFOSE	<1.52	1.52	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
L-MeFOSE	<1.94	1.94	2.42		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	78.6	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
13C3-PFPeA	IS	77.3	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
13C3-PFBS	IS	81.9	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
13C3-HFPO-DA	IS	73.8	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
13C2-4:2 FTS	IS	81.2	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
13C2-PFHxA	IS	81.5	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
13C4-PFHpA	IS	75.3	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
13C3-PFHxS	IS	87.1	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
13C2-6:2 FTS	IS	70.6	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
13C5-PFNA	IS	72.0	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
13C8-PFOSA	IS	60.9	10 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
13C2-PFOA	IS	79.0	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
13C8-PFOS	IS	79.7	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
13C2-PFDA	IS	74.2	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
13C2-8:2 FTS	IS	81.1	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
d3-MeFOSAA	IS	69.5	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
13C2-PFUnA	IS	78.4	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
d5-EtFOSAA	IS	62.4	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
13C2-PFDoA	IS	63.9	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
d3-MeFOSA	IS	36.8	10 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
13C2-PFTeDA	IS	63.9	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
d5-EtFOSA	IS	34.1	10 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
d7-MeFOSE	IS	62.8	10 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1
d9-EtFOSE	IS	59.7	10 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:17	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

Sample ID: MW-16 **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 13-Jul-22 10:55

Laboratory Data

Lab Sample: 2207165-05
Date Received: 15-Jul-22 09:10
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	94.1	0.981	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
L-PFPeA	276	0.733	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
L-PFBS	27.0	0.879	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
L-4:2 FTS	<0.922	0.922	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
L-PFHxA	255	0.791	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
L-PFPeS	1.60	0.796	1.94	J	B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
HFPO-DA	<1.52	1.52	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
L-PFHpA	197	0.908	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
ADONA	<0.621	0.621	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
L-PFHxS	11.1	1.00	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
Br-PFHxS	1.78	1.00	1.94	J	B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
Total PFHxS	12.8	1.00	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
L-6:2 FTS	8.55	1.09	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
L-PFOA	434	0.927	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
Br-PFOA	47.4	0.927	1.94	Q	B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
Total PFOA	481	0.927	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
L-PFHpS	3.06	0.578	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
L-PFNA	2.01	0.733	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
L-PFOSA	23.2	1.06	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
L-PFOS	43.6	1.10	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
Br-PFOS	43.2	1.10	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
Total PFOS	86.8	1.10	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
9Cl-PF3ONS	<1.03	1.03	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
L-PFDA	<0.918	0.918	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
L-8:2FTS	<1.10	1.10	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
L-PFNS	<1.12	1.12	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
L-MeFOSAA	<0.922	0.922	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
Br-MeFOSAA	<0.922	0.922	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
Total MeFOSAA	<0.922	0.922	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
L-EtFOSAA	<1.01	1.01	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
Br-EtFOSAA	<1.01	1.01	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
Total EtFOSAA	1.26	1.01	1.94	J	B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
L-PFUnA	<0.733	0.733	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
L-PFDS	<0.738	0.738	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
11Cl-PF3OUdS	<0.961	0.961	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
L-PFDoA	<0.947	0.947	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
L-MeFOSA	<2.18	2.18	2.43		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1

Sample ID: MW-16

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 13-Jul-22 10:55

Laboratory Data

Lab Sample: 2207165-05
Date Received: 15-Jul-22 09:10
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFTrDA	<0.636	0.636	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
PFDoS	<1.37	1.37	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
L-PFTeDA	<0.791	0.791	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
L-EtFOSA	<2.26	2.26	2.43		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
L-EtFOSE	<1.52	1.52	1.94		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
L-MeFOSE	<1.94	1.94	2.43		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	61.5	25 - 150		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
13C3-PFPeA	IS	75.3	25 - 150		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
13C3-PFBS	IS	82.6	25 - 150		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
13C3-HFPO-DA	IS	80.6	25 - 150		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
13C2-4:2 FTS	IS	81.7	25 - 150		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
13C2-PFHxA	IS	74.6	25 - 150		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
13C4-PFHpA	IS	76.7	25 - 150		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
13C3-PFHxS	IS	83.1	25 - 150		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
13C2-6:2 FTS	IS	81.7	25 - 150		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
13C5-PFNA	IS	80.4	25 - 150		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
13C8-PFOSA	IS	58.4	10 - 150		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
13C2-PFOA	IS	77.3	25 - 150		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
13C8-PFOS	IS	79.4	25 - 150		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
13C2-PFDA	IS	78.5	25 - 150		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
13C2-8:2 FTS	IS	78.8	25 - 150		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
d3-MeFOSAA	IS	76.7	25 - 150		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
13C2-PFUnA	IS	69.1	25 - 150		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
d5-EtFOSAA	IS	74.7	25 - 150		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
13C2-PFDoA	IS	76.1	25 - 150		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
d3-MeFOSA	IS	31.5	10 - 150		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
13C2-PFTeDA	IS	72.5	25 - 150		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
d5-EtFOSA	IS	29.8	10 - 150		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
d7-MeFOSE	IS	65.2	10 - 150		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1
d9-EtFOSE	IS	59.6	10 - 150		B22H049	08-Aug-22	0.257 L	10-Aug-22 21:27	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

Sample ID: MW-12 DUP

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292

Matrix: Aqueous
Date Collected: 13-Jul-22 12:25

Laboratory Data

Lab Sample: 2207165-06
Date Received: 15-Jul-22 09:10

Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	72.8	0.978	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
L-PFPeA	218	0.731	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
L-PFBS	6.49	0.876	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
L-4:2 FTS	<0.920	0.920	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
L-PFHxA	169	0.789	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
L-PFPeS	1.53	0.794	1.94	J	B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
HFPO-DA	<1.51	1.51	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
L-PFHpA	58.7	0.905	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
ADONA	<0.620	0.620	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
L-PFHxS	1.88	0.997	1.94	J	B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
Br-PFHxS	<0.997	0.997	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
Total PFHxS	1.88	0.997	1.94	J	B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
L-6:2 FTS	5.55	1.09	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
L-PFOA	77.5	0.924	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
Br-PFOA	5.98	0.924	1.94	Q	B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
Total PFOA	83.4	0.924	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
L-PFHpS	<0.576	0.576	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
L-PFNA	<0.731	0.731	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
L-PFOSA	30.5	1.06	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
L-PFOS	<1.09	1.09	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
Br-PFOS	1.85	1.09	1.94	J	B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
Total PFOS	2.13	1.09	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
9Cl-PF3ONS	<1.03	1.03	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
L-PFDA	<0.915	0.915	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
L-8:2FTS	<1.10	1.10	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
L-PFNS	<1.12	1.12	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
L-MeFOSAA	<0.920	0.920	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
Br-MeFOSAA	<0.920	0.920	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
Total MeFOSAA	<0.920	0.920	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
L-EtFOSAA	<1.01	1.01	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
Br-EtFOSAA	<1.01	1.01	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
Total EtFOSAA	<1.01	1.01	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
L-PFUnA	<0.731	0.731	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
L-PFDS	<0.736	0.736	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
11Cl-PF3OUdS	<0.958	0.958	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
L-PFDoA	<0.944	0.944	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
L-MeFOSA	<2.17	2.17	2.42		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1

Sample ID: MW-12 DUP

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292

Matrix: Aqueous
Date Collected: 13-Jul-22 12:25

Laboratory Data

Lab Sample: 2207165-06
Date Received: 15-Jul-22 09:10

Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFTrDA	<0.634	0.634	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
PFDoS	<1.37	1.37	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
L-PFTeDA	<0.789	0.789	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
L-EtFOSA	<2.25	2.25	2.42		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
L-EtFOSE	<1.52	1.52	1.94		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
L-MeFOSE	<1.94	1.94	2.42		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	78.1	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
13C3-PFPeA	IS	76.8	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
13C3-PFBS	IS	74.8	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
13C3-HFPO-DA	IS	74.4	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
13C2-4:2 FTS	IS	78.7	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
13C2-PFHxA	IS	75.3	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
13C4-PFHpA	IS	78.4	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
13C3-PFHxS	IS	90.7	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
13C2-6:2 FTS	IS	79.4	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
13C5-PFNA	IS	61.8	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
13C8-PFOSA	IS	62.4	10 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
13C2-PFOA	IS	69.9	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
13C8-PFOS	IS	77.6	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
13C2-PFDA	IS	76.9	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
13C2-8:2 FTS	IS	80.5	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
d3-MeFOSAA	IS	71.4	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
13C2-PFUnA	IS	78.5	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
d5-EtFOSAA	IS	63.3	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
13C2-PFDoA	IS	67.5	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
d3-MeFOSA	IS	22.0	10 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
13C2-PFTeDA	IS	72.8	25 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
d5-EtFOSA	IS	22.5	10 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
d7-MeFOSE	IS	51.6	10 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1
d9-EtFOSE	IS	51.8	10 - 150		B22H049	08-Aug-22	0.258 L	10-Aug-22 21:38	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

Sample ID: FB2022.07.12 **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 12-Jul-22 09:55

Laboratory Data

Lab Sample: 2207165-07
Date Received: 15-Jul-22 09:10
Column:

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.951	0.951	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
PFPeA	2706-90-3	<0.711	0.711	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
PFBS	375-73-5	<0.852	0.852	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
4:2 FTS	757124-72-4	<0.894	0.894	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
PFHxA	307-24-4	<0.767	0.767	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
PFPeS	2706-91-4	<0.772	0.772	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
HFPO-DA	13252-13-6	<1.47	1.47	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
PFHpA	375-85-9	<0.880	0.880	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
ADONA	919005-14-4	<0.602	0.602	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
PFHxS	355-46-4	<0.969	0.969	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
6:2 FTS	27619-97-2	<1.06	1.06	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
PFOA	335-67-1	<0.899	0.899	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
PFHpS	375-92-8	<0.560	0.560	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
PFNA	375-95-1	<0.711	0.711	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
PFOSA	754-91-6	<1.03	1.03	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
PFOS	1763-23-1	<1.06	1.06	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
9Cl-PF3ONS	756426-58-1	<1.00	1.00	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
PFDA	335-76-2	<0.889	0.889	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
8:2 FTS	39108-34-4	<1.07	1.07	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
PFNS	68259-12-1	<1.09	1.09	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
MeFOSAA	2355-31-9	<0.894	0.894	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
EtFOSAA	2991-50-6	<0.979	0.979	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
PFUnA	2058-94-8	<0.711	0.711	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
PFDS	335-77-3	<0.715	0.715	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
11Cl-PF3OUdS	763051-92-9	<0.932	0.932	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
PFDoA	307-55-1	<0.918	0.918	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
MeFOSA	31506-32-8	<2.11	2.11	2.35		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
PFTrDA	72629-94-8	<0.616	0.616	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
PFDoS	79780-39-5	<1.33	1.33	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
PFTeDA	376-06-7	<0.767	0.767	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
EtFOSA	4151-50-2	<2.19	2.19	2.35		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
MeFOSE	24448-09-7	<1.88	1.88	2.35		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
EtFOSE	1691-99-2	<1.48	1.48	1.88		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	87.5	25 - 150		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
13C3-PFPeA	IS	76.9	25 - 150		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
13C3-PFBS	IS	69.8	25 - 150		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1

Sample ID: FB2022.07.12 **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 12-Jul-22 09:55

Laboratory Data

Lab Sample: 2207165-07
Date Received: 15-Jul-22 09:10
Column:

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	74.3	25 - 150		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
13C2-PFHxA	IS	78.2	25 - 150		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
13C3-HFPO-DA	IS	78.6	25 - 150		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
13C4-PFHpA	IS	74.3	25 - 150		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
13C3-PFHxS	IS	83.5	25 - 150		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
13C2-6:2 FTS	IS	66.8	25 - 150		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
13C2-PFOA	IS	67.2	25 - 150		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
13C5-PFNA	IS	70.7	25 - 150		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
13C8-PFOSA	IS	49.3	10 - 150		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
13C8-PFOS	IS	78.3	25 - 150		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
13C2-PFDA	IS	68.4	25 - 150		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
13C2-8:2 FTS	IS	77.6	25 - 150		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
d3-MeFOSAA	IS	59.8	25 - 150		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
d5-EtFOSAA	IS	55.3	25 - 150		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
13C2-PFUnA	IS	67.4	25 - 150		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
13C2-PFDoA	IS	65.2	25 - 150		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
d3-MeFOSA	IS	14.4	10 - 150		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
13C2-PFTeDA	IS	71.0	25 - 150		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
d5-EtFOSA	IS	14.8	10 - 150		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
d7-MeFOSE	IS	32.7	10 - 150		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1
d9-EtFOSE	IS	34.2	10 - 150		B22H049	08-Aug-22	0.266 L	10-Aug-22 21:48	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: FB2022.07.13 **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 13-Jul-22 10:40

Laboratory Data

Lab Sample: 2207165-08
Date Received: 15-Jul-22 09:10
Column:

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.974	0.974	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
PFPeA	2706-90-3	<0.728	0.728	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
PFBS	375-73-5	<0.873	0.873	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
4:2 FTS	757124-72-4	<0.916	0.916	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
PFHxA	307-24-4	<0.786	0.786	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
PFPeS	2706-91-4	<0.791	0.791	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
HFPO-DA	13252-13-6	<1.51	1.51	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
PFHpA	375-85-9	<0.901	0.901	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
ADONA	919005-14-4	<0.617	0.617	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
PFHxS	355-46-4	<0.993	0.993	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
6:2 FTS	27619-97-2	<1.08	1.08	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
PFOA	335-67-1	<0.921	0.921	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
PFHpS	375-92-8	<0.574	0.574	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
PFNA	375-95-1	<0.728	0.728	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
PFOSA	754-91-6	<1.05	1.05	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
PFOS	1763-23-1	<1.09	1.09	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
9Cl-PF3ONS	756426-58-1	<1.03	1.03	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
PFDA	335-76-2	<0.911	0.911	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
8:2 FTS	39108-34-4	<1.09	1.09	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
PFNS	68259-12-1	<1.11	1.11	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
MeFOSAA	2355-31-9	<0.916	0.916	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
EtFOSAA	2991-50-6	<1.00	1.00	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
PFUnA	2058-94-8	<0.728	0.728	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
PFDS	335-77-3	<0.733	0.733	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
11Cl-PF3OUdS	763051-92-9	<0.954	0.954	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
PFDoA	307-55-1	<0.940	0.940	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
MeFOSA	31506-32-8	<2.16	2.16	2.41		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
PFTrDA	72629-94-8	<0.632	0.632	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
PFDoS	79780-39-5	<1.36	1.36	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
PFTeDA	376-06-7	<0.786	0.786	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
EtFOSA	4151-50-2	<2.24	2.24	2.41		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
MeFOSE	24448-09-7	<1.93	1.93	2.41		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
EtFOSE	1691-99-2	<1.51	1.51	1.93		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	83.5	25 - 150		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
13C3-PFPeA	IS	79.3	25 - 150		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
13C3-PFBS	IS	68.8	25 - 150		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1

Sample ID: FB2022.07.13 **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 13-Jul-22 10:40

Laboratory Data

Lab Sample: 2207165-08
Date Received: 15-Jul-22 09:10
Column:

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	68.0	25 - 150		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
13C2-PFHxA	IS	74.2	25 - 150		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
13C3-HFPO-DA	IS	73.6	25 - 150		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
13C4-PFHpA	IS	77.8	25 - 150		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
13C3-PFHxS	IS	72.0	25 - 150		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
13C2-6:2 FTS	IS	56.5	25 - 150		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
13C2-PFOA	IS	73.6	25 - 150		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
13C5-PFNA	IS	75.4	25 - 150		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
13C8-PFOSA	IS	53.3	10 - 150		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
13C8-PFOS	IS	71.8	25 - 150		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
13C2-PFDA	IS	65.2	25 - 150		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
13C2-8:2 FTS	IS	76.0	25 - 150		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
d3-MeFOSAA	IS	60.7	25 - 150		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
d5-EtFOSAA	IS	53.9	25 - 150		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
13C2-PFUnA	IS	70.8	25 - 150		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
13C2-PFDoA	IS	63.0	25 - 150		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
d3-MeFOSA	IS	29.3	10 - 150		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
13C2-PFTeDA	IS	61.4	25 - 150		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
d5-EtFOSA	IS	29.3	10 - 150		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
d7-MeFOSE	IS	41.4	10 - 150		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1
d9-EtFOSE	IS	44.0	10 - 150		B22H049	08-Aug-22	0.259 L	10-Aug-22 21:59	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-11

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 13-Jul-22 08:15

Laboratory Data

Lab Sample: 2207165-09
Date Received: 15-Jul-22 09:10
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFBA	99.2	0.995	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
L-PFPeA	407	0.744	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
L-PFBS	17.5	0.892	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
L-4:2 FTS	1.05	0.936	1.97	J	B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
L-PFHxA	309	0.803	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
L-PFPeS	17.0	0.808	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
HFPO-DA	<1.54	1.54	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
L-PFHpA	156	0.921	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
ADONA	<0.630	0.630	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
L-PFHxS	131	1.01	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
Br-PFHxS	26.9	1.01	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
Total PFHxS	158	1.01	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
L-6:2 FTS	96.2	1.11	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
L-PFOA	233	0.941	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
Br-PFOA	26.7	0.941	1.97	Q	B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
Total PFOA	260	0.941	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
L-PFHpS	2.46	0.586	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
L-PFNA	3.96	0.744	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
L-PFOSA	5.82	1.07	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
L-PFOS	35.6	1.11	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
Br-PFOS	35.4	1.11	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
Total PFOS	70.9	1.11	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
9Cl-PF3ONS	<1.05	1.05	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
L-PFDA	<0.931	0.931	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
L-8:2FTS	1.19	1.12	1.97	J	B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
L-PFNS	<1.14	1.14	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
L-MeFOSAA	<0.936	0.936	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
Br-MeFOSAA	<0.936	0.936	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
Total MeFOSAA	<0.936	0.936	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
L-EtFOSAA	3.10	1.02	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
Br-EtFOSAA	<1.02	1.02	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
Total EtFOSAA	3.91	1.02	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
L-PFUnA	<0.744	0.744	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
L-PFDS	<0.749	0.749	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
11Cl-PF3OUdS	<0.975	0.975	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
L-PFDoA	<0.961	0.961	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
L-MeFOSA	<2.21	2.21	2.46		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1

Sample ID: MW-11

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 13-Jul-22 08:15

Laboratory Data

Lab Sample: 2207165-09
Date Received: 15-Jul-22 09:10
Column: BEH C18

Analyte	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
L-PFTrDA	<0.645	0.645	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
PFDoS	<1.39	1.39	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
L-PFTeDA	<0.803	0.803	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
L-EtFOSA	<2.29	2.29	2.46		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
L-EtFOSE	<1.55	1.55	1.97		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
L-MeFOSE	<1.97	1.97	2.46		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	78.2	25 - 150		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
13C3-PFPeA	IS	80.6	25 - 150		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
13C3-PFBS	IS	81.3	25 - 150		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
13C3-HFPO-DA	IS	66.2	25 - 150		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
13C2-4:2 FTS	IS	80.7	25 - 150		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
13C2-PFHxA	IS	77.7	25 - 150		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
13C4-PFHpA	IS	79.2	25 - 150		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
13C3-PFHxS	IS	89.2	25 - 150		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
13C2-6:2 FTS	IS	78.2	25 - 150		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
13C5-PFNA	IS	71.0	25 - 150		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
13C8-PFOSA	IS	63.9	10 - 150		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
13C2-PFOA	IS	75.7	25 - 150		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
13C8-PFOS	IS	87.9	25 - 150		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
13C2-PFDA	IS	75.6	25 - 150		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
13C2-8:2 FTS	IS	87.6	25 - 150		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
d3-MeFOSAA	IS	76.2	25 - 150		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
13C2-PFUnA	IS	77.8	25 - 150		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
d5-EtFOSAA	IS	70.5	25 - 150		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
13C2-PFDoA	IS	70.2	25 - 150		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
d3-MeFOSA	IS	27.4	10 - 150		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
13C2-PFTeDA	IS	76.2	25 - 150		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
d5-EtFOSA	IS	23.0	10 - 150		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
d7-MeFOSE	IS	61.6	10 - 150		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1
d9-EtFOSE	IS	55.6	10 - 150		B22H049	08-Aug-22	0.254 L	10-Aug-22 22:09	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

Sample ID: EQ2022.07.12 **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 12-Jul-22 12:25

Laboratory Data

Lab Sample: 2207165-10
Date Received: 15-Jul-22 09:10
Column:

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.969	0.969	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
PFPeA	2706-90-3	<0.724	0.724	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
PFBS	375-73-5	<0.868	0.868	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
4:2 FTS	757124-72-4	<0.911	0.911	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
PFHxA	307-24-4	<0.782	0.782	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
PFPeS	2706-91-4	<0.787	0.787	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
HFPO-DA	13252-13-6	<1.50	1.50	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
PFHpA	375-85-9	<0.897	0.897	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
ADONA	919005-14-4	<0.614	0.614	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
PFHxS	355-46-4	<0.988	0.988	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
6:2 FTS	27619-97-2	<1.08	1.08	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
PFOA	335-67-1	<0.916	0.916	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
PFHpS	375-92-8	<0.571	0.571	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
PFNA	375-95-1	<0.724	0.724	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
PFOSA	754-91-6	<1.05	1.05	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
PFOS	1763-23-1	<1.08	1.08	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
9Cl-PF3ONS	756426-58-1	<1.02	1.02	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
PFDA	335-76-2	<0.906	0.906	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
8:2 FTS	39108-34-4	<1.09	1.09	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
PFNS	68259-12-1	<1.11	1.11	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
MeFOSAA	2355-31-9	<0.911	0.911	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
EtFOSAA	2991-50-6	<0.998	0.998	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
PFUnA	2058-94-8	<0.724	0.724	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
PFDS	335-77-3	<0.729	0.729	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
11Cl-PF3OUdS	763051-92-9	<0.950	0.950	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
PFDoA	307-55-1	<0.935	0.935	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
MeFOSA	31506-32-8	<2.15	2.15	2.40		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
PFTrDA	72629-94-8	<0.628	0.628	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
PFDoS	79780-39-5	<1.36	1.36	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
PFTeDA	376-06-7	<0.782	0.782	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
EtFOSA	4151-50-2	<2.23	2.23	2.40		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
MeFOSE	24448-09-7	<1.92	1.92	2.40		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
EtFOSE	1691-99-2	<1.51	1.51	1.92		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	86.5	25 - 150		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
13C3-PFPeA	IS	78.2	25 - 150		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
13C3-PFBS	IS	71.6	25 - 150		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1

Sample ID: EQ2022.07.12 **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 12-Jul-22 12:25

Laboratory Data

Lab Sample: 2207165-10
Date Received: 15-Jul-22 09:10
Column:

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	74.8	25 - 150		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
13C2-PFHxA	IS	77.3	25 - 150		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
13C3-HFPO-DA	IS	70.7	25 - 150		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
13C4-PFHpA	IS	70.3	25 - 150		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
13C3-PFHxS	IS	79.3	25 - 150		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
13C2-6:2 FTS	IS	65.9	25 - 150		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
13C2-PFOA	IS	71.2	25 - 150		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
13C5-PFNA	IS	72.6	25 - 150		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
13C8-PFOSA	IS	50.6	10 - 150		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
13C8-PFOS	IS	69.7	25 - 150		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
13C2-PFDA	IS	62.1	25 - 150		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
13C2-8:2 FTS	IS	80.8	25 - 150		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
d3-MeFOSAA	IS	65.4	25 - 150		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
d5-EtFOSAA	IS	59.6	25 - 150		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
13C2-PFUnA	IS	67.8	25 - 150		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
13C2-PFDoA	IS	68.0	25 - 150		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
d3-MeFOSA	IS	24.7	10 - 150		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
13C2-PFTeDA	IS	77.3	25 - 150		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
d5-EtFOSA	IS	23.6	10 - 150		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
d7-MeFOSE	IS	43.6	10 - 150		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1
d9-EtFOSE	IS	41.9	10 - 150		B22H049	08-Aug-22	0.261 L	10-Aug-22 22:20	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: EQ2022.07.13 **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 13-Jul-22 11:25

Laboratory Data

Lab Sample: 2207165-11
Date Received: 15-Jul-22 09:10
Column:

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.961	0.961	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
PFPeA	2706-90-3	<0.718	0.718	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
PFBS	375-73-5	<0.861	0.861	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
4:2 FTS	757124-72-4	<0.904	0.904	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
PFHxA	307-24-4	<0.776	0.776	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
PFPeS	2706-91-4	<0.780	0.780	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
HFPO-DA	13252-13-6	<1.49	1.49	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
PFHpA	375-85-9	<0.890	0.890	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
ADONA	919005-14-4	<0.609	0.609	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
PFHxS	355-46-4	<0.980	0.980	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
6:2 FTS	27619-97-2	<1.07	1.07	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
PFOA	335-67-1	<0.909	0.909	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
PFHpS	375-92-8	<0.566	0.566	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
PFNA	375-95-1	<0.718	0.718	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
PFOSA	754-91-6	<1.04	1.04	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
PFOS	1763-23-1	<1.08	1.08	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
9Cl-PF3ONS	756426-58-1	<1.01	1.01	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
PFDA	335-76-2	<0.899	0.899	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
8:2 FTS	39108-34-4	<1.08	1.08	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
PFNS	68259-12-1	<1.10	1.10	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
MeFOSAA	2355-31-9	<0.904	0.904	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
EtFOSAA	2991-50-6	<0.990	0.990	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
PFUnA	2058-94-8	<0.718	0.718	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
PFDS	335-77-3	<0.723	0.723	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
11Cl-PF3OUdS	763051-92-9	<0.942	0.942	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
PFDoA	307-55-1	<0.928	0.928	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
MeFOSA	31506-32-8	<2.13	2.13	2.38		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
PFTrDA	72629-94-8	<0.623	0.623	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
PFDoS	79780-39-5	<1.35	1.35	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
PFTeDA	376-06-7	<0.776	0.776	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
EtFOSA	4151-50-2	<2.21	2.21	2.38		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
MeFOSE	24448-09-7	<1.90	1.90	2.38		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
EtFOSE	1691-99-2	<1.49	1.49	1.90		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	92.8	25 - 150		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
13C3-PFPeA	IS	85.5	25 - 150		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
13C3-PFBS	IS	74.0	25 - 150		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1

Sample ID: EQ2022.07.13 **PFAS Isotope Dilution Method**

Client Data

Name: AECOM
Project: 60662292
Matrix: Aqueous
Date Collected: 13-Jul-22 11:25

Laboratory Data

Lab Sample: 2207165-11
Date Received: 15-Jul-22 09:10
Column:

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	75.3	25 - 150		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
13C2-PFHxA	IS	70.9	25 - 150		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
13C3-HFPO-DA	IS	75.4	25 - 150		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
13C4-PFHpA	IS	71.1	25 - 150		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
13C3-PFHxS	IS	76.1	25 - 150		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
13C2-6:2 FTS	IS	63.8	25 - 150		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
13C2-PFOA	IS	81.9	25 - 150		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
13C5-PFNA	IS	75.5	25 - 150		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
13C8-PFOSA	IS	48.1	10 - 150		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
13C8-PFOS	IS	69.5	25 - 150		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
13C2-PFDA	IS	76.9	25 - 150		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
13C2-8:2 FTS	IS	76.7	25 - 150		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
d3-MeFOSAA	IS	62.4	25 - 150		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
d5-EtFOSAA	IS	56.0	25 - 150		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
13C2-PFUnA	IS	78.7	25 - 150		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
13C2-PFDoA	IS	63.0	25 - 150		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
d3-MeFOSA	IS	16.5	10 - 150		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
13C2-PFTeDA	IS	73.3	25 - 150		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
d5-EtFOSA	IS	15.4	10 - 150		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
d7-MeFOSE	IS	34.8	10 - 150		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1
d9-EtFOSE	IS	33.2	10 - 150		B22H049	08-Aug-22	0.263 L	10-Aug-22 22:30	1

MDL - Method Detection Limit RL - Reporting limit Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Vista Analytical Laboratory Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Massachusetts Department of Environmental Protection	M-CA413
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	2211390
New Hampshire Environmental Accreditation Program	207721
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-021
Pennsylvania Department of Environmental Protection	018
Texas Commission on Environmental Quality	T104704189-22-13
Vermont Department of Health	VT-4042
Virginia Department of General Services	11276
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.

NELAP Accredited Test Methods

MATRIX: Air	
Description of Test	**Method**
Determination of Polychlorinated p- Dioxins & Polychlorinated Dibenzofurans	EPA 23
Polychlorinated Dibenzodioxins in Ambient Air by GC/HRMS	EPA TO-9A

MATRIX: Biological Tissue	
Description of Test	**Method**
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Drinking Water	
Description of Test	**Method**
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613/1613B
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537.1
Determination of Per- and Polyfluoroalkyl Substances in Drinking Water by Isotope Dilution Anion Exchange Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry	EPA 533
Perfluorooctanesulonate (PFOS) and Perfluorooctanoate (PFOA) - Method for Unfiltered Samples Using Solid Phase Extraction and Liquid Chromatography/Mass Spectrometry	ISO 25101 2009

MATRIX: Non-Potable Water	
Description of Test	**Method**
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Dioxin by GC/HRMS	EPA 613
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Solids	
Description of Test	**Method**
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

Vista Analytical Laboratory

CHAIN OF CUSTODY

For Laboratory Use Only
Work Order #: 2207165 Temp: 4.7 °C
Storage ID: R-13, WR-3 Storage Secured: Yes ☑ No ☐

Project ID: 60606292 PO#: Sampler: Leslie Bychinski (name)

TAT (check one): Standard: ☐ 21 days Rush (surcharge may apply) ☐ 14 days ☐ 7 days Specify:

Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time
Leslie Bychinski	7/14/2022	1100	Sarah Hergenrother	07/15/22	0910

SHIP TO: Vista Analytical Laboratory
1104 Windfield Way
El Dorado Hills, CA 95762
(916) 673-1520 * Fax (916) 673-0106

ATTN:

Method of Shipment:

Tracking No.:

Add Analysis(es) Requested

Sample ID	Date	Time	Location/ Sample Description	Container(s) Quantity	Type	Matrix	PFAS by Isotope Dilution: PFOA/ PFOS	UCMR3 PFAS List:6	537.1 List: 14 or 18 (Circle One)	EPA Draft List of 24	OTHER: Please attach analyte list	EPA Method 537 (DW only): PFOA/ PFOS	UCMR3 PFAS List:6	537.1 List of 14	537.1 List of 18	Comments
MW-12	7/13/22	1225		2	P	AQ					*					
MW-13	7/12/22	0720		2	P	AQ					*					
MW-14	7/12/22	1210		2	P	AQ					*					
MW-15	7/13/22	0925		2	P	AQ					*					
MW-16	7/13/22	1055		2	P	AQ					*					
MW-12 DUP	7/13/22	1225		2	P	AQ					*					
FB 2022.07.12	7/12/22	0955		2	P	AQ					*					
FB 2022.07.13	7/13/22	1040		2	P	AQ					*					
~~FB 2022.07.~~				2	P	AQ					*					
MW-11	7/13/22	0815		2	P	AQ					*					

Special Instructions/Comment
*33 compounds per WI guidance document

SEND DOCUMENTATION AND RESULTS TO:

Name: Andrew Mott
Company: AECOM
Address: 1555 N. Rivercenter Dr. Ste 214
City: Milwaukee State: WI Zip: 53212
Phone: 920-379-6024
Email: andrew.mott@aecom.com

Container Types: P = HDPE, PJ = HDPE Jar, PY = Polypropylene, O= Other

Bottle Preservation Type: TZ= Trizma:

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other

Vista Analytical Laboratory

CHAIN OF CUSTODY

For Laboratory Use Only
Work Order #: 2207165 Temp: 4.7 °C
Storage ID: R-13, Sh-2 Storage Secured: Yes ☒ No ☐

Project ID: 606062292 PO#: _____ Sampler: Leslie Bychinski (name)

TAT (check one): Standard: ☐ 21 days Rush (surcharge may apply) ☐ 14 days ☐ 7 days Specify: _____

Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time
Leslie Bychinski	7/14/2022	1100	Sarah Hegenbart	07/15/22	0910
Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time

SHIP TO: Vista Analytical Laboratory
1104 Windfield Way
El Dorado Hills, CA 95762
(916) 673-1520 * Fax (916) 673-0106

ATTN: _____

Method of Shipment: _____

Tracking No.: _____

Add Analysis(es) Requested

Sample ID	Date	Time	Location/ Sample Description	Container(s) Quantity	Type	Matrix	PFAS by Isotope Dilution: PFOA/ PFOS	UCMR3 PFAS List:6	537.1 List: 14 or 18 (Circle One)	EPA Draft List of 24	OTHER: Please attach analyte list	EPA Method 537 (DW only): PFOA/ PFOS	UCMR3 PFAS List:6	537.1 List of 14	537.1 List of 18	Comments
EQ 2022.07.12	7/12/22	1225		2	P	AQ					✱0					
EQ2022.07.13	7/13/22	1125		2	P	AQ					✱					

Special Instructions/Comment
✱33 compounds per WI guidance document.

SEND DOCUMENTATION AND RESULTS TO:

Name: Andrew Mott
Company: AECOM
Address: 1555 N. Rivercenter Dr. Ste 214
City: Milwaukee State: WI Zip: 53212
Phone: 920-379-6024
Email: andrew.mott@aecom.com

Container Types: P = HDPE, PJ = HDPE Jar, PY = Polypropylene, O= Other _____

Bottle Preservation Type: TZ= Trizma: _____

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other _____

Vista Analytical Laboratory

Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 2207165 TAT Std

Samples Arrival:	**Date/Time** 07/15/22 0910		**Initials:** SH		**Location:** WR-2 **Shelf/Rack:** DA		
Delivered By:	(FedEx)	UPS	On Trac	GLS	DHL	Hand Delivered	Other
Preservation:	(Ice)		Blue Ice		Techni Ice	Dry Ice	None
Temp °C: 4.9 (uncorrected) **Temp °C:** 4.7 (corrected)			**Probe used:** Y / (N)		**Thermometer ID:** IR-3		

	YES	NO	NA
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Airbill ~~Airbill~~ Trk # 2755 5024 4371	✓		
Shipping Documentation Present?	✓		
Shipping Container: ~~Vista~~ / Client / (Retain) / Return / Dispose			
Chain of Custody / Sample Documentation Present?	✓		
Chain of Custody / Sample Documentation Complete?	✓		
Holding Time Acceptable?	✓		

Logged In:	**Date/Time** 07/21/22 13:13		**Initials:** KA	**Location:** R-13, WR-2 **Shelf/Rack:** A-3, F-4	
COC Anomaly/Sample Acceptance Form completed?					✓ ✓

Comments:

CoC/Label Reconciliation Report WO# 2207165

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2207165-01	A MW-12		13-Jul-22 12:25	HDPE Bottle, 250 mL	Aqueous	
2207165-01	B MW-12		13-Jul-22 12:25	HDPE Bottle, 250 mL	Aqueous	
2207165-02	A MW-13		12-Jul-22 07:20	HDPE Bottle, 250 mL	Aqueous	
2207165-02	B MW-13		12-Jul-22 07:20	HDPE Bottle, 250 mL	Aqueous	
2207165-03	A MW-14		12-Jul-22 12:10	HDPE Bottle, 250 mL	Aqueous	
2207165-03	B MW-14		12-Jul-22 12:10	HDPE Bottle, 250 mL	Aqueous	
2207165-04	A MW-15		13-Jul-22 09:25	HDPE Bottle, 250 mL	Aqueous	
2207165-04	B MW-15		13-Jul-22 09:25	HDPE Bottle, 250 mL	Aqueous	
2207165-05	A MW-16		13-Jul-22 10:55	HDPE Bottle, 250 mL	Aqueous	
2207165-05	B MW-16		13-Jul-22 10:55	HDPE Bottle, 250 mL	Aqueous	
2207165-06	A MW-12 DUP		13-Jul-22 12:25	HDPE Bottle, 250 mL	Aqueous	
2207165-06	B MW-12 DUP		13-Jul-22 12:25	HDPE Bottle, 250 mL	Aqueous	
2207165-07	A FB2022.07.12		12-Jul-22 09:55	HDPE Bottle, 250 mL	Aqueous	
2207165-07	B FB2022.07.12		12-Jul-22 09:55	HDPE Bottle, 250 mL	Aqueous	
2207165-08	A FB2022.07.13		13-Jul-22 10:40	HDPE Bottle, 250 mL	Aqueous	
2207165-08	B FB2022.07.13		13-Jul-22 10:40	HDPE Bottle, 250 mL	Aqueous	
2207165-09	A MW-11		13-Jul-22 08:15	HDPE Bottle, 250 mL	Aqueous	
2207165-09	B MW-11		13-Jul-22 08:15	HDPE Bottle, 250 mL	Aqueous	
2207165-10	A EQ2022.07.12		12-Jul-22 12:25	HDPE Bottle, 250 mL	Aqueous	
2207165-10	B EQ2022.07.12		12-Jul-22 12:25	HDPE Bottle, 250 mL	Aqueous	
2207165-11	A EQ2022.07.13		13-Jul-22 11:25	HDPE Bottle, 250 mL	Aqueous	
2207165-11	B EQ2022.07.13		13-Jul-22 11:25	HDPE Bottle, 250 mL	Aqueous	

Checkmarks indicate that information on the COC reconciled with the sample label.
Any discrepancies are noted in the following columns.

	Yes	No	NA	Comments:
Sample Container Intact?	✓			
Sample Custody Seals Intact?		✓	✓	
Adequate Sample Volume?	✓			
Container Type Appropriate for Analysis(es)	✓			

Preservation Documented: Na2S2O3 Trizma NH4CH3CO2 (None) Other

Verifed by/Date: SH 07/21/22

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

June 29, 2022

Andrew Mott
AECOM
558 North Main St
Oshkosh, WI 54901

RE: Project: 60662292 PFAS SI
Pace Project No.: 40246796

Dear Andrew Mott:

Enclosed are the analytical results for sample(s) received by the laboratory on June 17, 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,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Katie Crotteau, AECOM

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

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
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40246796001	**MW-9_(1.5-3.5)**	Solid	06/13/22 12:15	06/17/22 14:05
40246796002	**MW-13_(1.5-2.5)**	Solid	06/13/22 11:30	06/17/22 14:05
40246796003	**MW-1_(1.5-3.5)**	Solid	06/13/22 13:10	06/17/22 14:05
40246796004	**MW-5_(1-3)**	Solid	06/13/22 13:45	06/17/22 14:05
40246796005	**MW-14_(1.5-3.5)**	Solid	06/14/22 07:40	06/17/22 14:05
40246796006	**MW-10_(2-4)**	Solid	06/14/22 08:15	06/17/22 14:05
40246796007	**MW-2_(1.5-3.5)**	Solid	06/14/22 11:00	06/17/22 14:05
40246796008	**MW-7_(1.5-3.5)**	Solid	06/14/22 11:30	06/17/22 14:05
40246796009	**MW-11_(1.5-3.5)**	Solid	06/14/22 12:10	06/17/22 14:05
40246796010	**MW-6_(1.5-3.5)**	Solid	06/14/22 12:40	06/17/22 14:05
40246796011	**MW-15_(1.5-3.5)**	Solid	06/14/22 13:30	06/17/22 14:05
40246796012	**MW-3_(1.5-3.5)**	Solid	06/14/22 14:30	06/17/22 14:05
40246796013	**MW-16_(1.5-3.5)**	Solid	06/14/22 15:15	06/17/22 14:05
40246796014	**MW-12_(1.5-3.5)**	Solid	06/15/22 09:00	06/17/22 14:05
40246796015	**MW-8_(1.5-3.5)**	Solid	06/15/22 09:50	06/17/22 14:05
40246796016	**MW-8_(13-14)**	Solid	06/15/22 10:00	06/17/22 14:05
40246796017	**MW-4_(1.5-3.5)**	Solid	06/15/22 11:30	06/17/22 14:05
40246796018	**TRIP BLANK**	Solid	06/13/22 07:00	06/17/22 14:05

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Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40246796001	**MW-9_(1.5-3.5)**	EPA 8082A	BLM	10	PASI-G
		EPA 6010D	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40246796002	**MW-13_(1.5-2.5)**	EPA 8082A	BLM	10	PASI-G
		EPA 6010D	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40246796003	**MW-1_(1.5-3.5)**	EPA 8082A	BLM	10	PASI-G
		EPA 6010D	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40246796004	**MW-5_(1-3)**	EPA 8082A	BLM	10	PASI-G
		EPA 6010D	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40246796005	**MW-14_(1.5-3.5)**	EPA 8082A	BLM	10	PASI-G
		EPA 6010D	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40246796006	**MW-10_(2-4)**	EPA 8082A	BLM	10	PASI-G
		EPA 6010D	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40246796007	**MW-2_(1.5-3.5)**	EPA 8082A	BLM	10	PASI-G

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010D	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40246796008	**MW-7_(1.5-3.5)**	EPA 8082A	BLM	10	PASI-G
		EPA 6010D	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40246796009	**MW-11_(1.5-3.5)**	EPA 8082A	BLM	10	PASI-G
		EPA 6010D	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40246796010	**MW-6_(1.5-3.5)**	EPA 8082A	BLM	10	PASI-G
		EPA 6010D	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40246796011	**MW-15_(1.5-3.5)**	EPA 8082A	BLM	10	PASI-G
		EPA 6010D	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40246796012	**MW-3_(1.5-3.5)**	EPA 8082A	BLM	10	PASI-G
		EPA 6010D	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40246796013	**MW-16_(1.5-3.5)**	EPA 8082A	BLM	10	PASI-G
		EPA 6010D	TXW	7	PASI-G

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SAMPLE ANALYTE COUNT

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40246796014	**MW-12_(1.5-3.5)**	EPA 8082A	BLM	10	PASI-G
		EPA 6010D	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40246796015	**MW-8_(1.5-3.5)**	EPA 8082A	BLM	10	PASI-G
		EPA 6010D	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40246796017	**MW-4_(1.5-3.5)**	EPA 8082A	BLM	10	PASI-G
		EPA 6010D	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40246796018	**TRIP BLANK**	EPA 8260	ALD	65	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-9_(1.5-3.5) **Lab ID: 40246796001** Collected: 06/13/22 12:15 Received: 06/17/22 14:05 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)	**<18.3**	ug/kg	60.0	18.3	1	06/21/22 11:52	06/22/22 19:29	12674-11-2	
PCB-1221 (Aroclor 1221)	**<18.3**	ug/kg	60.0	18.3	1	06/21/22 11:52	06/22/22 19:29	11104-28-2	
PCB-1232 (Aroclor 1232)	**<18.3**	ug/kg	60.0	18.3	1	06/21/22 11:52	06/22/22 19:29	11141-16-5	
PCB-1242 (Aroclor 1242)	**<18.3**	ug/kg	60.0	18.3	1	06/21/22 11:52	06/22/22 19:29	53469-21-9	
PCB-1248 (Aroclor 1248)	**<18.3**	ug/kg	60.0	18.3	1	06/21/22 11:52	06/22/22 19:29	12672-29-6	
PCB-1254 (Aroclor 1254)	**34.2J**	ug/kg	60.0	18.3	1	06/21/22 11:52	06/22/22 19:29	11097-69-1	
PCB-1260 (Aroclor 1260)	**<18.3**	ug/kg	60.0	18.3	1	06/21/22 11:52	06/22/22 19:29	11096-82-5	
PCB, Total	**34.2J**	ug/kg	60.0	18.3	1	06/21/22 11:52	06/22/22 19:29	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	77	%	50-99		1	06/21/22 11:52	06/22/22 19:29	877-09-8	
Decachlorobiphenyl (S)	63	%	38-95		1	06/21/22 11:52	06/22/22 19:29	2051-24-3	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Arsenic	**2.0J**	mg/kg	3.0	1.8	1	06/21/22 06:58	06/21/22 19:46	7440-38-2	
Barium	**35.2**	mg/kg	0.60	0.18	1	06/21/22 06:58	06/21/22 19:46	7440-39-3	
Cadmium	**0.18J**	mg/kg	0.60	0.16	1	06/21/22 06:58	06/21/22 19:46	7440-43-9	
Chromium	**9.8**	mg/kg	1.2	0.33	1	06/21/22 06:58	06/21/22 19:46	7440-47-3	
Lead	**68.0**	mg/kg	2.4	0.72	1	06/21/22 06:58	06/21/22 19:46	7439-92-1	M0,R1
Selenium	**<1.6**	mg/kg	4.8	1.6	1	06/21/22 06:58	06/21/22 19:46	7782-49-2	
Silver	**<0.37**	mg/kg	1.2	0.37	1	06/21/22 06:58	06/21/22 19:46	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.079**	mg/kg	0.042	0.012	1	06/24/22 08:09	06/27/22 07:39	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**19.7J**	ug/kg	20.1	2.6	1	06/22/22 07:55	06/22/22 17:03	83-32-9	
Acenaphthylene	**49.0**	ug/kg	20.1	2.5	1	06/22/22 07:55	06/22/22 17:03	208-96-8	
Anthracene	**114**	ug/kg	20.1	2.5	1	06/22/22 07:55	06/22/22 17:03	120-12-7	
Benzo(a)anthracene	**275**	ug/kg	20.1	2.6	1	06/22/22 07:55	06/22/22 17:03	56-55-3	
Benzo(a)pyrene	**289**	ug/kg	20.1	2.3	1	06/22/22 07:55	06/22/22 17:03	50-32-8	
Benzo(b)fluoranthene	**393**	ug/kg	20.1	2.8	1	06/22/22 07:55	06/22/22 17:03	205-99-2	
Benzo(g,h,i)perylene	**139**	ug/kg	20.1	3.5	1	06/22/22 07:55	06/22/22 17:03	191-24-2	
Benzo(k)fluoranthene	**168**	ug/kg	20.1	2.6	1	06/22/22 07:55	06/22/22 17:03	207-08-9	
Chrysene	**315**	ug/kg	20.1	3.8	1	06/22/22 07:55	06/22/22 17:03	218-01-9	
Dibenz(a,h)anthracene	**37.9**	ug/kg	20.1	2.8	1	06/22/22 07:55	06/22/22 17:03	53-70-3	
Fluoranthene	**583**	ug/kg	20.1	2.4	1	06/22/22 07:55	06/22/22 17:03	206-44-0	
Fluorene	**34.5**	ug/kg	20.1	2.4	1	06/22/22 07:55	06/22/22 17:03	86-73-7	
Indeno(1,2,3-cd)pyrene	**123**	ug/kg	20.1	4.2	1	06/22/22 07:55	06/22/22 17:03	193-39-5	
1-Methylnaphthalene	**47.5**	ug/kg	20.1	2.9	1	06/22/22 07:55	06/22/22 17:03	90-12-0	
2-Methylnaphthalene	**68.7**	ug/kg	20.1	2.9	1	06/22/22 07:55	06/22/22 17:03	91-57-6	
Naphthalene	**62.5**	ug/kg	20.1	2.0	1	06/22/22 07:55	06/22/22 17:03	91-20-3	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-9_(1.5-3.5) **Lab ID: 40246796001** Collected: 06/13/22 12:15 Received: 06/17/22 14:05 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	**376**	ug/kg	20.1	2.3	1	06/22/22 07:55	06/22/22 17:03	85-01-8	
Pyrene	**508**	ug/kg	20.1	3.0	1	06/22/22 07:55	06/22/22 17:03	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	49	%	41-98		1	06/22/22 07:55	06/22/22 17:03	321-60-8	
Terphenyl-d14 (S)	59	%	37-106		1	06/22/22 07:55	06/22/22 17:03	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Benzene	**<16.7**	ug/kg	28.1	16.7	1	06/21/22 08:15	06/22/22 19:53	71-43-2	
Bromobenzene	**<27.4**	ug/kg	70.2	27.4	1	06/21/22 08:15	06/22/22 19:53	108-86-1	
Bromochloromethane	**<19.2**	ug/kg	70.2	19.2	1	06/21/22 08:15	06/22/22 19:53	74-97-5	
Bromodichloromethane	**<16.7**	ug/kg	70.2	16.7	1	06/21/22 08:15	06/22/22 19:53	75-27-4	
Bromoform	**<309**	ug/kg	351	309	1	06/21/22 08:15	06/22/22 19:53	75-25-2	
Bromomethane	**<98.4**	ug/kg	351	98.4	1	06/21/22 08:15	06/22/22 19:53	74-83-9	
n-Butylbenzene	**<32.2**	ug/kg	70.2	32.2	1	06/21/22 08:15	06/22/22 19:53	104-51-8	
sec-Butylbenzene	**<17.1**	ug/kg	70.2	17.1	1	06/21/22 08:15	06/22/22 19:53	135-98-8	
tert-Butylbenzene	**<22.0**	ug/kg	70.2	22.0	1	06/21/22 08:15	06/22/22 19:53	98-06-6	
Carbon tetrachloride	**<15.4**	ug/kg	70.2	15.4	1	06/21/22 08:15	06/22/22 19:53	56-23-5	
Chlorobenzene	**<8.4**	ug/kg	70.2	8.4	1	06/21/22 08:15	06/22/22 19:53	108-90-7	
Chloroethane	**<29.6**	ug/kg	351	29.6	1	06/21/22 08:15	06/22/22 19:53	75-00-3	
Chloroform	**<50.3**	ug/kg	351	50.3	1	06/21/22 08:15	06/22/22 19:53	67-66-3	
Chloromethane	**<26.7**	ug/kg	70.2	26.7	1	06/21/22 08:15	06/22/22 19:53	74-87-3	
2-Chlorotoluene	**<22.8**	ug/kg	70.2	22.8	1	06/21/22 08:15	06/22/22 19:53	95-49-8	
4-Chlorotoluene	**<26.7**	ug/kg	70.2	26.7	1	06/21/22 08:15	06/22/22 19:53	106-43-4	
1,2-Dibromo-3-chloropropane	**<54.5**	ug/kg	351	54.5	1	06/21/22 08:15	06/22/22 19:53	96-12-8	
Dibromochloromethane	**<240**	ug/kg	351	240	1	06/21/22 08:15	06/22/22 19:53	124-48-1	
1,2-Dibromoethane (EDB)	**<19.2**	ug/kg	70.2	19.2	1	06/21/22 08:15	06/22/22 19:53	106-93-4	
Dibromomethane	**<20.8**	ug/kg	70.2	20.8	1	06/21/22 08:15	06/22/22 19:53	74-95-3	
1,2-Dichlorobenzene	**<21.8**	ug/kg	70.2	21.8	1	06/21/22 08:15	06/22/22 19:53	95-50-1	
1,3-Dichlorobenzene	**<19.2**	ug/kg	70.2	19.2	1	06/21/22 08:15	06/22/22 19:53	541-73-1	
1,4-Dichlorobenzene	**<19.2**	ug/kg	70.2	19.2	1	06/21/22 08:15	06/22/22 19:53	106-46-7	
Dichlorodifluoromethane	**<30.2**	ug/kg	70.2	30.2	1	06/21/22 08:15	06/22/22 19:53	75-71-8	
1,1-Dichloroethane	**<18.0**	ug/kg	70.2	18.0	1	06/21/22 08:15	06/22/22 19:53	75-34-3	
1,2-Dichloroethane	**<16.2**	ug/kg	70.2	16.2	1	06/21/22 08:15	06/22/22 19:53	107-06-2	
1,1-Dichloroethene	**<23.3**	ug/kg	70.2	23.3	1	06/21/22 08:15	06/22/22 19:53	75-35-4	
cis-1,2-Dichloroethene	**<15.0**	ug/kg	70.2	15.0	1	06/21/22 08:15	06/22/22 19:53	156-59-2	
trans-1,2-Dichloroethene	**<15.2**	ug/kg	70.2	15.2	1	06/21/22 08:15	06/22/22 19:53	156-60-5	
1,2-Dichloropropane	**<16.7**	ug/kg	70.2	16.7	1	06/21/22 08:15	06/22/22 19:53	78-87-5	
1,3-Dichloropropane	**<15.3**	ug/kg	70.2	15.3	1	06/21/22 08:15	06/22/22 19:53	142-28-9	
2,2-Dichloropropane	**<19.0**	ug/kg	70.2	19.0	1	06/21/22 08:15	06/22/22 19:53	594-20-7	
1,1-Dichloropropene	**<22.8**	ug/kg	70.2	22.8	1	06/21/22 08:15	06/22/22 19:53	563-58-6	
cis-1,3-Dichloropropene	**<46.3**	ug/kg	351	46.3	1	06/21/22 08:15	06/22/22 19:53	10061-01-5	
trans-1,3-Dichloropropene	**<201**	ug/kg	351	201	1	06/21/22 08:15	06/22/22 19:53	10061-02-6	
Diisopropyl ether	**<17.4**	ug/kg	70.2	17.4	1	06/21/22 08:15	06/22/22 19:53	108-20-3	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-9_(1.5-3.5) **Lab ID: 40246796001** Collected: 06/13/22 12:15 Received: 06/17/22 14:05 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	**<16.7**	ug/kg	70.2	16.7	1	06/21/22 08:15	06/22/22 19:53	100-41-4	
Hexachloro-1,3-butadiene	**<140**	ug/kg	351	140	1	06/21/22 08:15	06/22/22 19:53	87-68-3	
Isopropylbenzene (Cumene)	**<19.0**	ug/kg	70.2	19.0	1	06/21/22 08:15	06/22/22 19:53	98-82-8	
p-Isopropyltoluene	**<21.3**	ug/kg	70.2	21.3	1	06/21/22 08:15	06/22/22 19:53	99-87-6	
Methylene Chloride	**<19.5**	ug/kg	70.2	19.5	1	06/21/22 08:15	06/22/22 19:53	75-09-2	
Methyl-tert-butyl ether	**<20.6**	ug/kg	70.2	20.6	1	06/21/22 08:15	06/22/22 19:53	1634-04-4	
Naphthalene	**30.9J**	ug/kg	351	21.9	1	06/21/22 08:15	06/22/22 19:53	91-20-3	
n-Propylbenzene	**<16.9**	ug/kg	70.2	16.9	1	06/21/22 08:15	06/22/22 19:53	103-65-1	
Styrene	**<18.0**	ug/kg	70.2	18.0	1	06/21/22 08:15	06/22/22 19:53	100-42-5	
1,1,1,2-Tetrachloroethane	**<16.9**	ug/kg	70.2	16.9	1	06/21/22 08:15	06/22/22 19:53	630-20-6	
1,1,2,2-Tetrachloroethane	**<25.4**	ug/kg	70.2	25.4	1	06/21/22 08:15	06/22/22 19:53	79-34-5	
Tetrachloroethene	**<27.2**	ug/kg	70.2	27.2	1	06/21/22 08:15	06/22/22 19:53	127-18-4	
Toluene	**30.6J**	ug/kg	70.2	17.7	1	06/21/22 08:15	06/22/22 19:53	108-88-3	
1,2,3-Trichlorobenzene	**<78.2**	ug/kg	351	78.2	1	06/21/22 08:15	06/22/22 19:53	87-61-6	
1,2,4-Trichlorobenzene	**<57.9**	ug/kg	351	57.9	1	06/21/22 08:15	06/22/22 19:53	120-82-1	
1,1,1-Trichloroethane	**<18.0**	ug/kg	70.2	18.0	1	06/21/22 08:15	06/22/22 19:53	71-55-6	
1,1,2-Trichloroethane	**<25.6**	ug/kg	70.2	25.6	1	06/21/22 08:15	06/22/22 19:53	79-00-5	
Trichloroethene	**<26.3**	ug/kg	70.2	26.3	1	06/21/22 08:15	06/22/22 19:53	79-01-6	
Trichlorofluoromethane	**<20.4**	ug/kg	70.2	20.4	1	06/21/22 08:15	06/22/22 19:53	75-69-4	
1,2,3-Trichloropropane	**<34.1**	ug/kg	70.2	34.1	1	06/21/22 08:15	06/22/22 19:53	96-18-4	
1,2,4-Trimethylbenzene	**<20.9**	ug/kg	70.2	20.9	1	06/21/22 08:15	06/22/22 19:53	95-63-6	
1,3,5-Trimethylbenzene	**<22.6**	ug/kg	70.2	22.6	1	06/21/22 08:15	06/22/22 19:53	108-67-8	
Vinyl chloride	**<14.2**	ug/kg	70.2	14.2	1	06/21/22 08:15	06/22/22 19:53	75-01-4	
Xylene (Total)	**<50.7**	ug/kg	211	50.7	1	06/21/22 08:15	06/22/22 19:53	1330-20-7	
m&p-Xylene	**<29.6**	ug/kg	140	29.6	1	06/21/22 08:15	06/22/22 19:53	179601-23-1	
o-Xylene	**<21.1**	ug/kg	70.2	21.1	1	06/21/22 08:15	06/22/22 19:53	95-47-6	
Surrogates									
Toluene-d8 (S)	144	%	69-153		1	06/21/22 08:15	06/22/22 19:53	2037-26-5	
4-Bromofluorobenzene (S)	134	%	68-156		1	06/21/22 08:15	06/22/22 19:53	460-00-4	
1,2-Dichlorobenzene-d4 (S)	116	%	71-161		1	06/21/22 08:15	06/22/22 19:53	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**16.8**	%	0.10	0.10	1		06/20/22 11:05		

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-13_(1.5-2.5) **Lab ID: 40246796002** Collected: 06/13/22 11:30 Received: 06/17/22 14:05 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)	**<16.6**	ug/kg	54.5	16.6	1	06/21/22 11:52	06/22/22 19:53	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.6**	ug/kg	54.5	16.6	1	06/21/22 11:52	06/22/22 19:53	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.6**	ug/kg	54.5	16.6	1	06/21/22 11:52	06/22/22 19:53	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.6**	ug/kg	54.5	16.6	1	06/21/22 11:52	06/22/22 19:53	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.6**	ug/kg	54.5	16.6	1	06/21/22 11:52	06/22/22 19:53	12672-29-6	
PCB-1254 (Aroclor 1254)	**18.9J**	ug/kg	54.5	16.6	1	06/21/22 11:52	06/22/22 19:53	11097-69-1	
PCB-1260 (Aroclor 1260)	**23.8J**	ug/kg	54.5	16.6	1	06/21/22 11:52	06/22/22 19:53	11096-82-5	
PCB, Total	**42.7J**	ug/kg	54.5	16.6	1	06/21/22 11:52	06/22/22 19:53	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	76	%	50-99		1	06/21/22 11:52	06/22/22 19:53	877-09-8	
Decachlorobiphenyl (S)	65	%	38-95		1	06/21/22 11:52	06/22/22 19:53	2051-24-3	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Arsenic	**3.4**	mg/kg	2.6	1.5	1	06/21/22 06:58	06/21/22 19:55	7440-38-2	
Barium	**285**	mg/kg	0.52	0.15	1	06/21/22 06:58	06/21/22 19:55	7440-39-3	
Cadmium	**0.54**	mg/kg	0.52	0.14	1	06/21/22 06:58	06/21/22 19:55	7440-43-9	
Chromium	**49.8**	mg/kg	1.0	0.29	1	06/21/22 06:58	06/21/22 19:55	7440-47-3	
Lead	**23.4**	mg/kg	2.1	0.62	1	06/21/22 06:58	06/21/22 19:55	7439-92-1	
Selenium	**<1.4**	mg/kg	4.1	1.4	1	06/21/22 06:58	06/21/22 19:55	7782-49-2	
Silver	**1.0J**	mg/kg	1.0	0.32	1	06/21/22 06:58	06/21/22 19:55	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.052**	mg/kg	0.035	0.010	1	06/24/22 08:09	06/27/22 07:46	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**50.1J**	ug/kg	91.0	11.8	5	06/22/22 07:55	06/22/22 17:20	83-32-9	
Acenaphthylene	**66.4J**	ug/kg	91.0	11.5	5	06/22/22 07:55	06/22/22 17:20	208-96-8	
Anthracene	**202**	ug/kg	91.0	11.3	5	06/22/22 07:55	06/22/22 17:20	120-12-7	
Benzo(a)anthracene	**492**	ug/kg	91.0	11.8	5	06/22/22 07:55	06/22/22 17:20	56-55-3	
Benzo(a)pyrene	**482**	ug/kg	91.0	10.3	5	06/22/22 07:55	06/22/22 17:20	50-32-8	
Benzo(b)fluoranthene	**634**	ug/kg	91.0	12.6	5	06/22/22 07:55	06/22/22 17:20	205-99-2	
Benzo(g,h,i)perylene	**224**	ug/kg	91.0	16.0	5	06/22/22 07:55	06/22/22 17:20	191-24-2	
Benzo(k)fluoranthene	**267**	ug/kg	91.0	11.6	5	06/22/22 07:55	06/22/22 17:20	207-08-9	
Chrysene	**523**	ug/kg	91.0	17.2	5	06/22/22 07:55	06/22/22 17:20	218-01-9	
Dibenz(a,h)anthracene	**62.1J**	ug/kg	91.0	12.6	5	06/22/22 07:55	06/22/22 17:20	53-70-3	
Fluoranthene	**1130**	ug/kg	91.0	10.8	5	06/22/22 07:55	06/22/22 17:20	206-44-0	
Fluorene	**76.4J**	ug/kg	91.0	10.9	5	06/22/22 07:55	06/22/22 17:20	86-73-7	
Indeno(1,2,3-cd)pyrene	**198**	ug/kg	91.0	19.0	5	06/22/22 07:55	06/22/22 17:20	193-39-5	
1-Methylnaphthalene	**60.7J**	ug/kg	91.0	13.3	5	06/22/22 07:55	06/22/22 17:20	90-12-0	
2-Methylnaphthalene	**68.4J**	ug/kg	91.0	13.3	5	06/22/22 07:55	06/22/22 17:20	91-57-6	
Naphthalene	**115**	ug/kg	91.0	8.9	5	06/22/22 07:55	06/22/22 17:20	91-20-3	

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-13_(1.5-2.5) **Lab ID: 40246796002** Collected: 06/13/22 11:30 Received: 06/17/22 14:05 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	**751**	ug/kg	91.0	10.4	5	06/22/22 07:55	06/22/22 17:20	85-01-8	
Pyrene	**946**	ug/kg	91.0	13.4	5	06/22/22 07:55	06/22/22 17:20	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65	%	41-98		5	06/22/22 07:55	06/22/22 17:20	321-60-8	
Terphenyl-d14 (S)	76	%	37-106		5	06/22/22 07:55	06/22/22 17:20	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	06/21/22 08:15	06/22/22 20:12	71-43-2	
Bromobenzene	**<23.1**	ug/kg	59.1	23.1	1	06/21/22 08:15	06/22/22 20:12	108-86-1	
Bromochloromethane	**<16.2**	ug/kg	59.1	16.2	1	06/21/22 08:15	06/22/22 20:12	74-97-5	
Bromodichloromethane	**<14.1**	ug/kg	59.1	14.1	1	06/21/22 08:15	06/22/22 20:12	75-27-4	
Bromoform	**<260**	ug/kg	296	260	1	06/21/22 08:15	06/22/22 20:12	75-25-2	
Bromomethane	**<82.9**	ug/kg	296	82.9	1	06/21/22 08:15	06/22/22 20:12	74-83-9	
n-Butylbenzene	**<27.1**	ug/kg	59.1	27.1	1	06/21/22 08:15	06/22/22 20:12	104-51-8	
sec-Butylbenzene	**<14.4**	ug/kg	59.1	14.4	1	06/21/22 08:15	06/22/22 20:12	135-98-8	
tert-Butylbenzene	**<18.6**	ug/kg	59.1	18.6	1	06/21/22 08:15	06/22/22 20:12	98-06-6	
Carbon tetrachloride	**<13.0**	ug/kg	59.1	13.0	1	06/21/22 08:15	06/22/22 20:12	56-23-5	
Chlorobenzene	**<7.1**	ug/kg	59.1	7.1	1	06/21/22 08:15	06/22/22 20:12	108-90-7	
Chloroethane	**<25.0**	ug/kg	296	25.0	1	06/21/22 08:15	06/22/22 20:12	75-00-3	
Chloroform	**<42.3**	ug/kg	296	42.3	1	06/21/22 08:15	06/22/22 20:12	67-66-3	
Chloromethane	**<22.5**	ug/kg	59.1	22.5	1	06/21/22 08:15	06/22/22 20:12	74-87-3	
2-Chlorotoluene	**<19.2**	ug/kg	59.1	19.2	1	06/21/22 08:15	06/22/22 20:12	95-49-8	
4-Chlorotoluene	**<22.5**	ug/kg	59.1	22.5	1	06/21/22 08:15	06/22/22 20:12	106-43-4	
1,2-Dibromo-3-chloropropane	**<45.9**	ug/kg	296	45.9	1	06/21/22 08:15	06/22/22 20:12	96-12-8	
Dibromochloromethane	**<202**	ug/kg	296	202	1	06/21/22 08:15	06/22/22 20:12	124-48-1	
1,2-Dibromoethane (EDB)	**<16.2**	ug/kg	59.1	16.2	1	06/21/22 08:15	06/22/22 20:12	106-93-4	
Dibromomethane	**<17.5**	ug/kg	59.1	17.5	1	06/21/22 08:15	06/22/22 20:12	74-95-3	
1,2-Dichlorobenzene	**<18.3**	ug/kg	59.1	18.3	1	06/21/22 08:15	06/22/22 20:12	95-50-1	
1,3-Dichlorobenzene	**<16.2**	ug/kg	59.1	16.2	1	06/21/22 08:15	06/22/22 20:12	541-73-1	
1,4-Dichlorobenzene	**<16.2**	ug/kg	59.1	16.2	1	06/21/22 08:15	06/22/22 20:12	106-46-7	
Dichlorodifluoromethane	**<25.4**	ug/kg	59.1	25.4	1	06/21/22 08:15	06/22/22 20:12	75-71-8	
1,1-Dichloroethane	**<15.1**	ug/kg	59.1	15.1	1	06/21/22 08:15	06/22/22 20:12	75-34-3	
1,2-Dichloroethane	**<13.6**	ug/kg	59.1	13.6	1	06/21/22 08:15	06/22/22 20:12	107-06-2	
1,1-Dichloroethene	**<19.6**	ug/kg	59.1	19.6	1	06/21/22 08:15	06/22/22 20:12	75-35-4	
cis-1,2-Dichloroethene	**<12.7**	ug/kg	59.1	12.7	1	06/21/22 08:15	06/22/22 20:12	156-59-2	
trans-1,2-Dichloroethene	**<12.8**	ug/kg	59.1	12.8	1	06/21/22 08:15	06/22/22 20:12	156-60-5	
1,2-Dichloropropane	**<14.1**	ug/kg	59.1	14.1	1	06/21/22 08:15	06/22/22 20:12	78-87-5	
1,3-Dichloropropane	**<12.9**	ug/kg	59.1	12.9	1	06/21/22 08:15	06/22/22 20:12	142-28-9	
2,2-Dichloropropane	**<16.0**	ug/kg	59.1	16.0	1	06/21/22 08:15	06/22/22 20:12	594-20-7	
1,1-Dichloropropene	**<19.2**	ug/kg	59.1	19.2	1	06/21/22 08:15	06/22/22 20:12	563-58-6	
cis-1,3-Dichloropropene	**<39.0**	ug/kg	296	39.0	1	06/21/22 08:15	06/22/22 20:12	10061-01-5	
trans-1,3-Dichloropropene	**<169**	ug/kg	296	169	1	06/21/22 08:15	06/22/22 20:12	10061-02-6	
Diisopropyl ether	**<14.7**	ug/kg	59.1	14.7	1	06/21/22 08:15	06/22/22 20:12	108-20-3	

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(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-13_(1.5-2.5) **Lab ID: 40246796002** Collected: 06/13/22 11:30 Received: 06/17/22 14:05 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	**<14.1**	ug/kg	59.1	14.1	1	06/21/22 08:15	06/22/22 20:12	100-41-4	
Hexachloro-1,3-butadiene	**<118**	ug/kg	296	118	1	06/21/22 08:15	06/22/22 20:12	87-68-3	
Isopropylbenzene (Cumene)	**<16.0**	ug/kg	59.1	16.0	1	06/21/22 08:15	06/22/22 20:12	98-82-8	
p-Isopropyltoluene	**<18.0**	ug/kg	59.1	18.0	1	06/21/22 08:15	06/22/22 20:12	99-87-6	
Methylene Chloride	**<16.4**	ug/kg	59.1	16.4	1	06/21/22 08:15	06/22/22 20:12	75-09-2	
Methyl-tert-butyl ether	**<17.4**	ug/kg	59.1	17.4	1	06/21/22 08:15	06/22/22 20:12	1634-04-4	
Naphthalene	**130J**	ug/kg	296	18.5	1	06/21/22 08:15	06/22/22 20:12	91-20-3	
n-Propylbenzene	**<14.2**	ug/kg	59.1	14.2	1	06/21/22 08:15	06/22/22 20:12	103-65-1	
Styrene	**<15.1**	ug/kg	59.1	15.1	1	06/21/22 08:15	06/22/22 20:12	100-42-5	
1,1,1,2-Tetrachloroethane	**<14.2**	ug/kg	59.1	14.2	1	06/21/22 08:15	06/22/22 20:12	630-20-6	
1,1,2,2-Tetrachloroethane	**<21.4**	ug/kg	59.1	21.4	1	06/21/22 08:15	06/22/22 20:12	79-34-5	
Tetrachloroethene	**<22.9**	ug/kg	59.1	22.9	1	06/21/22 08:15	06/22/22 20:12	127-18-4	
Toluene	**<14.9**	ug/kg	59.1	14.9	1	06/21/22 08:15	06/22/22 20:12	108-88-3	
1,2,3-Trichlorobenzene	**<65.9**	ug/kg	296	65.9	1	06/21/22 08:15	06/22/22 20:12	87-61-6	
1,2,4-Trichlorobenzene	**<48.7**	ug/kg	296	48.7	1	06/21/22 08:15	06/22/22 20:12	120-82-1	
1,1,1-Trichloroethane	**<15.1**	ug/kg	59.1	15.1	1	06/21/22 08:15	06/22/22 20:12	71-55-6	
1,1,2-Trichloroethane	**<21.5**	ug/kg	59.1	21.5	1	06/21/22 08:15	06/22/22 20:12	79-00-5	
Trichloroethene	**<22.1**	ug/kg	59.1	22.1	1	06/21/22 08:15	06/22/22 20:12	79-01-6	
Trichlorofluoromethane	**<17.2**	ug/kg	59.1	17.2	1	06/21/22 08:15	06/22/22 20:12	75-69-4	
1,2,3-Trichloropropane	**<28.7**	ug/kg	59.1	28.7	1	06/21/22 08:15	06/22/22 20:12	96-18-4	
1,2,4-Trimethylbenzene	**<17.6**	ug/kg	59.1	17.6	1	06/21/22 08:15	06/22/22 20:12	95-63-6	
1,3,5-Trimethylbenzene	**<19.0**	ug/kg	59.1	19.0	1	06/21/22 08:15	06/22/22 20:12	108-67-8	
Vinyl chloride	**<11.9**	ug/kg	59.1	11.9	1	06/21/22 08:15	06/22/22 20:12	75-01-4	
Xylene (Total)	**<42.7**	ug/kg	177	42.7	1	06/21/22 08:15	06/22/22 20:12	1330-20-7	
m&p-Xylene	**<25.0**	ug/kg	118	25.0	1	06/21/22 08:15	06/22/22 20:12	179601-23-1	
o-Xylene	**<17.7**	ug/kg	59.1	17.7	1	06/21/22 08:15	06/22/22 20:12	95-47-6	
Surrogates									
Toluene-d8 (S)	133	%	69-153		1	06/21/22 08:15	06/22/22 20:12	2037-26-5	
4-Bromofluorobenzene (S)	124	%	68-156		1	06/21/22 08:15	06/22/22 20:12	460-00-4	
1,2-Dichlorobenzene-d4 (S)	112	%	71-161		1	06/21/22 08:15	06/22/22 20:12	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**8.4**	%	0.10	0.10	1		06/20/22 11:05		

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-1_(1.5-3.5) **Lab ID: 40246796003** Collected: 06/13/22 13:10 Received: 06/17/22 14:05 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	06/21/22 11:52	06/22/22 20:17	12674-11-2	
PCB-1221 (Aroclor 1221)	**<15.8**	ug/kg	52.0	15.8	1	06/21/22 11:52	06/22/22 20:17	11104-28-2	
PCB-1232 (Aroclor 1232)	**<15.8**	ug/kg	52.0	15.8	1	06/21/22 11:52	06/22/22 20:17	11141-16-5	
PCB-1242 (Aroclor 1242)	**<15.8**	ug/kg	52.0	15.8	1	06/21/22 11:52	06/22/22 20:17	53469-21-9	
PCB-1248 (Aroclor 1248)	**<15.8**	ug/kg	52.0	15.8	1	06/21/22 11:52	06/22/22 20:17	12672-29-6	
PCB-1254 (Aroclor 1254)	**<15.8**	ug/kg	52.0	15.8	1	06/21/22 11:52	06/22/22 20:17	11097-69-1	
PCB-1260 (Aroclor 1260)	**<15.8**	ug/kg	52.0	15.8	1	06/21/22 11:52	06/22/22 20:17	11096-82-5	
PCB, Total	**<15.8**	ug/kg	52.0	15.8	1	06/21/22 11:52	06/22/22 20:17	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	79	%	50-99		1	06/21/22 11:52	06/22/22 20:17	877-09-8	
Decachlorobiphenyl (S)	69	%	38-95		1	06/21/22 11:52	06/22/22 20:17	2051-24-3	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Arsenic	**1.5J**	mg/kg	2.4	1.4	1	06/21/22 06:58	06/21/22 20:00	7440-38-2	
Barium	**10.3**	mg/kg	0.48	0.14	1	06/21/22 06:58	06/21/22 20:00	7440-39-3	
Cadmium	**<0.13**	mg/kg	0.48	0.13	1	06/21/22 06:58	06/21/22 20:00	7440-43-9	
Chromium	**4.0**	mg/kg	0.95	0.26	1	06/21/22 06:58	06/21/22 20:00	7440-47-3	
Lead	**2.2**	mg/kg	1.9	0.57	1	06/21/22 06:58	06/21/22 20:00	7439-92-1	
Selenium	**<1.2**	mg/kg	3.8	1.2	1	06/21/22 06:58	06/21/22 20:00	7782-49-2	
Silver	**<0.29**	mg/kg	0.95	0.29	1	06/21/22 06:58	06/21/22 20:00	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**<0.0097**	mg/kg	0.034	0.0097	1	06/24/22 08:09	06/27/22 07:48	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	06/22/22 07:55	06/22/22 13:52	83-32-9	
Acenaphthylene	**<2.2**	ug/kg	17.3	2.2	1	06/22/22 07:55	06/22/22 13:52	208-96-8	
Anthracene	**<2.2**	ug/kg	17.3	2.2	1	06/22/22 07:55	06/22/22 13:52	120-12-7	
Benzo(a)anthracene	**<2.2**	ug/kg	17.3	2.2	1	06/22/22 07:55	06/22/22 13:52	56-55-3	
Benzo(a)pyrene	**<2.0**	ug/kg	17.3	2.0	1	06/22/22 07:55	06/22/22 13:52	50-32-8	
Benzo(b)fluoranthene	**<2.4**	ug/kg	17.3	2.4	1	06/22/22 07:55	06/22/22 13:52	205-99-2	
Benzo(g,h,i)perylene	**<3.0**	ug/kg	17.3	3.0	1	06/22/22 07:55	06/22/22 13:52	191-24-2	
Benzo(k)fluoranthene	**<2.2**	ug/kg	17.3	2.2	1	06/22/22 07:55	06/22/22 13:52	207-08-9	
Chrysene	**<3.3**	ug/kg	17.3	3.3	1	06/22/22 07:55	06/22/22 13:52	218-01-9	
Dibenz(a,h)anthracene	**<2.4**	ug/kg	17.3	2.4	1	06/22/22 07:55	06/22/22 13:52	53-70-3	
Fluoranthene	**<2.1**	ug/kg	17.3	2.1	1	06/22/22 07:55	06/22/22 13:52	206-44-0	
Fluorene	**<2.1**	ug/kg	17.3	2.1	1	06/22/22 07:55	06/22/22 13:52	86-73-7	
Indeno(1,2,3-cd)pyrene	**<3.6**	ug/kg	17.3	3.6	1	06/22/22 07:55	06/22/22 13:52	193-39-5	
1-Methylnaphthalene	**<2.5**	ug/kg	17.3	2.5	1	06/22/22 07:55	06/22/22 13:52	90-12-0	
2-Methylnaphthalene	**<2.5**	ug/kg	17.3	2.5	1	06/22/22 07:55	06/22/22 13:52	91-57-6	
Naphthalene	**<1.7**	ug/kg	17.3	1.7	1	06/22/22 07:55	06/22/22 13:52	91-20-3	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-1_(1.5-3.5) **Lab ID: 40246796003** Collected: 06/13/22 13:10 Received: 06/17/22 14:05 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	06/22/22 07:55	06/22/22 13:52	85-01-8	
Pyrene	**<2.5**	ug/kg	17.3	2.5	1	06/22/22 07:55	06/22/22 13:52	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	54	%	41-98		1	06/22/22 07:55	06/22/22 13:52	321-60-8	
Terphenyl-d14 (S)	65	%	37-106		1	06/22/22 07:55	06/22/22 13:52	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	06/21/22 08:15	06/22/22 20:31	71-43-2	
Bromobenzene	**<21.0**	ug/kg	53.9	21.0	1	06/21/22 08:15	06/22/22 20:31	108-86-1	
Bromochloromethane	**<14.8**	ug/kg	53.9	14.8	1	06/21/22 08:15	06/22/22 20:31	74-97-5	
Bromodichloromethane	**<12.8**	ug/kg	53.9	12.8	1	06/21/22 08:15	06/22/22 20:31	75-27-4	
Bromoform	**<237**	ug/kg	269	237	1	06/21/22 08:15	06/22/22 20:31	75-25-2	
Bromomethane	**<75.5**	ug/kg	269	75.5	1	06/21/22 08:15	06/22/22 20:31	74-83-9	
n-Butylbenzene	**<24.7**	ug/kg	53.9	24.7	1	06/21/22 08:15	06/22/22 20:31	104-51-8	
sec-Butylbenzene	**<13.1**	ug/kg	53.9	13.1	1	06/21/22 08:15	06/22/22 20:31	135-98-8	
tert-Butylbenzene	**<16.9**	ug/kg	53.9	16.9	1	06/21/22 08:15	06/22/22 20:31	98-06-6	
Carbon tetrachloride	**<11.9**	ug/kg	53.9	11.9	1	06/21/22 08:15	06/22/22 20:31	56-23-5	
Chlorobenzene	**<6.5**	ug/kg	53.9	6.5	1	06/21/22 08:15	06/22/22 20:31	108-90-7	
Chloroethane	**<22.7**	ug/kg	269	22.7	1	06/21/22 08:15	06/22/22 20:31	75-00-3	
Chloroform	**<38.6**	ug/kg	269	38.6	1	06/21/22 08:15	06/22/22 20:31	67-66-3	
Chloromethane	**<20.5**	ug/kg	53.9	20.5	1	06/21/22 08:15	06/22/22 20:31	74-87-3	
2-Chlorotoluene	**<17.5**	ug/kg	53.9	17.5	1	06/21/22 08:15	06/22/22 20:31	95-49-8	
4-Chlorotoluene	**<20.5**	ug/kg	53.9	20.5	1	06/21/22 08:15	06/22/22 20:31	106-43-4	
1,2-Dibromo-3-chloropropane	**<41.8**	ug/kg	269	41.8	1	06/21/22 08:15	06/22/22 20:31	96-12-8	
Dibromochloromethane	**<184**	ug/kg	269	184	1	06/21/22 08:15	06/22/22 20:31	124-48-1	
1,2-Dibromoethane (EDB)	**<14.8**	ug/kg	53.9	14.8	1	06/21/22 08:15	06/22/22 20:31	106-93-4	
Dibromomethane	**<15.9**	ug/kg	53.9	15.9	1	06/21/22 08:15	06/22/22 20:31	74-95-3	
1,2-Dichlorobenzene	**<16.7**	ug/kg	53.9	16.7	1	06/21/22 08:15	06/22/22 20:31	95-50-1	
1,3-Dichlorobenzene	**<14.8**	ug/kg	53.9	14.8	1	06/21/22 08:15	06/22/22 20:31	541-73-1	
1,4-Dichlorobenzene	**<14.8**	ug/kg	53.9	14.8	1	06/21/22 08:15	06/22/22 20:31	106-46-7	
Dichlorodifluoromethane	**<23.2**	ug/kg	53.9	23.2	1	06/21/22 08:15	06/22/22 20:31	75-71-8	
1,1-Dichloroethane	**<13.8**	ug/kg	53.9	13.8	1	06/21/22 08:15	06/22/22 20:31	75-34-3	
1,2-Dichloroethane	**<12.4**	ug/kg	53.9	12.4	1	06/21/22 08:15	06/22/22 20:31	107-06-2	
1,1-Dichloroethene	**<17.9**	ug/kg	53.9	17.9	1	06/21/22 08:15	06/22/22 20:31	75-35-4	
cis-1,2-Dichloroethene	**<11.5**	ug/kg	53.9	11.5	1	06/21/22 08:15	06/22/22 20:31	156-59-2	
trans-1,2-Dichloroethene	**<11.6**	ug/kg	53.9	11.6	1	06/21/22 08:15	06/22/22 20:31	156-60-5	
1,2-Dichloropropane	**<12.8**	ug/kg	53.9	12.8	1	06/21/22 08:15	06/22/22 20:31	78-87-5	
1,3-Dichloropropane	**<11.7**	ug/kg	53.9	11.7	1	06/21/22 08:15	06/22/22 20:31	142-28-9	
2,2-Dichloropropane	**<14.5**	ug/kg	53.9	14.5	1	06/21/22 08:15	06/22/22 20:31	594-20-7	
1,1-Dichloropropene	**<17.5**	ug/kg	53.9	17.5	1	06/21/22 08:15	06/22/22 20:31	563-58-6	
cis-1,3-Dichloropropene	**<35.6**	ug/kg	269	35.6	1	06/21/22 08:15	06/22/22 20:31	10061-01-5	
trans-1,3-Dichloropropene	**<154**	ug/kg	269	154	1	06/21/22 08:15	06/22/22 20:31	10061-02-6	
Diisopropyl ether	**<13.4**	ug/kg	53.9	13.4	1	06/21/22 08:15	06/22/22 20:31	108-20-3	

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-1_(1.5-3.5) **Lab ID: 40246796003** Collected: 06/13/22 13:10 Received: 06/17/22 14:05 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	53.9	12.8	1	06/21/22 08:15	06/22/22 20:31	100-41-4	
Hexachloro-1,3-butadiene	**<107**	ug/kg	269	107	1	06/21/22 08:15	06/22/22 20:31	87-68-3	
Isopropylbenzene (Cumene)	**<14.5**	ug/kg	53.9	14.5	1	06/21/22 08:15	06/22/22 20:31	98-82-8	
p-Isopropyltoluene	**<16.4**	ug/kg	53.9	16.4	1	06/21/22 08:15	06/22/22 20:31	99-87-6	
Methylene Chloride	**<15.0**	ug/kg	53.9	15.0	1	06/21/22 08:15	06/22/22 20:31	75-09-2	
Methyl-tert-butyl ether	**<15.8**	ug/kg	53.9	15.8	1	06/21/22 08:15	06/22/22 20:31	1634-04-4	
Naphthalene	**<16.8**	ug/kg	269	16.8	1	06/21/22 08:15	06/22/22 20:31	91-20-3	
n-Propylbenzene	**<12.9**	ug/kg	53.9	12.9	1	06/21/22 08:15	06/22/22 20:31	103-65-1	
Styrene	**<13.8**	ug/kg	53.9	13.8	1	06/21/22 08:15	06/22/22 20:31	100-42-5	
1,1,1,2-Tetrachloroethane	**<12.9**	ug/kg	53.9	12.9	1	06/21/22 08:15	06/22/22 20:31	630-20-6	
1,1,2,2-Tetrachloroethane	**<19.5**	ug/kg	53.9	19.5	1	06/21/22 08:15	06/22/22 20:31	79-34-5	
Tetrachloroethene	**<20.9**	ug/kg	53.9	20.9	1	06/21/22 08:15	06/22/22 20:31	127-18-4	
Toluene	**<13.6**	ug/kg	53.9	13.6	1	06/21/22 08:15	06/22/22 20:31	108-88-3	
1,2,3-Trichlorobenzene	**<60.0**	ug/kg	269	60.0	1	06/21/22 08:15	06/22/22 20:31	87-61-6	
1,2,4-Trichlorobenzene	**<44.4**	ug/kg	269	44.4	1	06/21/22 08:15	06/22/22 20:31	120-82-1	
1,1,1-Trichloroethane	**<13.8**	ug/kg	53.9	13.8	1	06/21/22 08:15	06/22/22 20:31	71-55-6	
1,1,2-Trichloroethane	**<19.6**	ug/kg	53.9	19.6	1	06/21/22 08:15	06/22/22 20:31	79-00-5	
Trichloroethene	**<20.1**	ug/kg	53.9	20.1	1	06/21/22 08:15	06/22/22 20:31	79-01-6	
Trichlorofluoromethane	**<15.6**	ug/kg	53.9	15.6	1	06/21/22 08:15	06/22/22 20:31	75-69-4	
1,2,3-Trichloropropane	**<26.2**	ug/kg	53.9	26.2	1	06/21/22 08:15	06/22/22 20:31	96-18-4	
1,2,4-Trimethylbenzene	**<16.1**	ug/kg	53.9	16.1	1	06/21/22 08:15	06/22/22 20:31	95-63-6	
1,3,5-Trimethylbenzene	**<17.3**	ug/kg	53.9	17.3	1	06/21/22 08:15	06/22/22 20:31	108-67-8	
Vinyl chloride	**<10.9**	ug/kg	53.9	10.9	1	06/21/22 08:15	06/22/22 20:31	75-01-4	
Xylene (Total)	**<38.9**	ug/kg	162	38.9	1	06/21/22 08:15	06/22/22 20:31	1330-20-7	
m&p-Xylene	**<22.7**	ug/kg	108	22.7	1	06/21/22 08:15	06/22/22 20:31	179601-23-1	
o-Xylene	**<16.2**	ug/kg	53.9	16.2	1	06/21/22 08:15	06/22/22 20:31	95-47-6	
Surrogates									
Toluene-d8 (S)	132	%	69-153		1	06/21/22 08:15	06/22/22 20:31	2037-26-5	
4-Bromofluorobenzene (S)	124	%	68-156		1	06/21/22 08:15	06/22/22 20:31	460-00-4	
1,2-Dichlorobenzene-d4 (S)	112	%	71-161		1	06/21/22 08:15	06/22/22 20:31	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**3.7**	%	0.10	0.10	1		06/20/22 11:05		

REPORT OF LABORATORY ANALYSIS

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(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-5_(1-3) **Lab ID: 40246796004** Collected: 06/13/22 13:45 Received: 06/17/22 14:05 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)	**<19.8**	ug/kg	65.1	19.8	1	06/21/22 11:52	06/22/22 20:41	12674-11-2	
PCB-1221 (Aroclor 1221)	**<19.8**	ug/kg	65.1	19.8	1	06/21/22 11:52	06/22/22 20:41	11104-28-2	
PCB-1232 (Aroclor 1232)	**<19.8**	ug/kg	65.1	19.8	1	06/21/22 11:52	06/22/22 20:41	11141-16-5	
PCB-1242 (Aroclor 1242)	**<19.8**	ug/kg	65.1	19.8	1	06/21/22 11:52	06/22/22 20:41	53469-21-9	
PCB-1248 (Aroclor 1248)	**<19.8**	ug/kg	65.1	19.8	1	06/21/22 11:52	06/22/22 20:41	12672-29-6	
PCB-1254 (Aroclor 1254)	**<19.8**	ug/kg	65.1	19.8	1	06/21/22 11:52	06/22/22 20:41	11097-69-1	
PCB-1260 (Aroclor 1260)	**<19.8**	ug/kg	65.1	19.8	1	06/21/22 11:52	06/22/22 20:41	11096-82-5	
PCB, Total	**<19.8**	ug/kg	65.1	19.8	1	06/21/22 11:52	06/22/22 20:41	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	74	%	50-99		1	06/21/22 11:52	06/22/22 20:41	877-09-8	
Decachlorobiphenyl (S)	70	%	38-95		1	06/21/22 11:52	06/22/22 20:41	2051-24-3	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Arsenic	**<1.9**	mg/kg	3.2	1.9	1	06/21/22 06:58	06/21/22 20:02	7440-38-2	
Barium	**9.6**	mg/kg	0.63	0.19	1	06/21/22 06:58	06/21/22 20:02	7440-39-3	
Cadmium	**<0.17**	mg/kg	0.63	0.17	1	06/21/22 06:58	06/21/22 20:02	7440-43-9	
Chromium	**4.5**	mg/kg	1.3	0.35	1	06/21/22 06:58	06/21/22 20:02	7440-47-3	
Lead	**6.5**	mg/kg	2.5	0.76	1	06/21/22 06:58	06/21/22 20:02	7439-92-1	
Selenium	**<1.7**	mg/kg	5.1	1.7	1	06/21/22 06:58	06/21/22 20:02	7782-49-2	
Silver	**<0.39**	mg/kg	1.3	0.39	1	06/21/22 06:58	06/21/22 20:02	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**<0.012**	mg/kg	0.043	0.012	1	06/24/22 08:09	06/27/22 07:50	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**<2.8**	ug/kg	21.8	2.8	1	06/22/22 07:55	06/22/22 16:11	83-32-9	
Acenaphthylene	**<2.7**	ug/kg	21.8	2.7	1	06/22/22 07:55	06/22/22 16:11	208-96-8	
Anthracene	**<2.7**	ug/kg	21.8	2.7	1	06/22/22 07:55	06/22/22 16:11	120-12-7	
Benzo(a)anthracene	**<2.8**	ug/kg	21.8	2.8	1	06/22/22 07:55	06/22/22 16:11	56-55-3	
Benzo(a)pyrene	**<2.5**	ug/kg	21.8	2.5	1	06/22/22 07:55	06/22/22 16:11	50-32-8	
Benzo(b)fluoranthene	**<3.0**	ug/kg	21.8	3.0	1	06/22/22 07:55	06/22/22 16:11	205-99-2	
Benzo(g,h,i)perylene	**<3.8**	ug/kg	21.8	3.8	1	06/22/22 07:55	06/22/22 16:11	191-24-2	
Benzo(k)fluoranthene	**<2.8**	ug/kg	21.8	2.8	1	06/22/22 07:55	06/22/22 16:11	207-08-9	
Chrysene	**<4.1**	ug/kg	21.8	4.1	1	06/22/22 07:55	06/22/22 16:11	218-01-9	
Dibenz(a,h)anthracene	**<3.0**	ug/kg	21.8	3.0	1	06/22/22 07:55	06/22/22 16:11	53-70-3	
Fluoranthene	**3.4J**	ug/kg	21.8	2.6	1	06/22/22 07:55	06/22/22 16:11	206-44-0	
Fluorene	**<2.6**	ug/kg	21.8	2.6	1	06/22/22 07:55	06/22/22 16:11	86-73-7	
Indeno(1,2,3-cd)pyrene	**<4.5**	ug/kg	21.8	4.5	1	06/22/22 07:55	06/22/22 16:11	193-39-5	
1-Methylnaphthalene	**<3.2**	ug/kg	21.8	3.2	1	06/22/22 07:55	06/22/22 16:11	90-12-0	
2-Methylnaphthalene	**<3.2**	ug/kg	21.8	3.2	1	06/22/22 07:55	06/22/22 16:11	91-57-6	
Naphthalene	**<2.1**	ug/kg	21.8	2.1	1	06/22/22 07:55	06/22/22 16:11	91-20-3	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-5_(1-3) **Lab ID: 40246796004** Collected: 06/13/22 13:45 Received: 06/17/22 14:05 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	**2.6J**	ug/kg	21.8	2.5	1	06/22/22 07:55	06/22/22 16:11	85-01-8	
Pyrene	**3.5J**	ug/kg	21.8	3.2	1	06/22/22 07:55	06/22/22 16:11	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%	41-98		1	06/22/22 07:55	06/22/22 16:11	321-60-8	
Terphenyl-d14 (S)	53	%	37-106		1	06/22/22 07:55	06/22/22 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	**<19.2**	ug/kg	32.2	19.2	1	06/21/22 08:15	06/22/22 20:51	71-43-2	
Bromobenzene	**<31.4**	ug/kg	80.6	31.4	1	06/21/22 08:15	06/22/22 20:51	108-86-1	
Bromochloromethane	**<22.1**	ug/kg	80.6	22.1	1	06/21/22 08:15	06/22/22 20:51	74-97-5	
Bromodichloromethane	**<19.2**	ug/kg	80.6	19.2	1	06/21/22 08:15	06/22/22 20:51	75-27-4	
Bromoform	**<355**	ug/kg	403	355	1	06/21/22 08:15	06/22/22 20:51	75-25-2	
Bromomethane	**<113**	ug/kg	403	113	1	06/21/22 08:15	06/22/22 20:51	74-83-9	
n-Butylbenzene	**<36.9**	ug/kg	80.6	36.9	1	06/21/22 08:15	06/22/22 20:51	104-51-8	
sec-Butylbenzene	**<19.7**	ug/kg	80.6	19.7	1	06/21/22 08:15	06/22/22 20:51	135-98-8	
tert-Butylbenzene	**<25.3**	ug/kg	80.6	25.3	1	06/21/22 08:15	06/22/22 20:51	98-06-6	
Carbon tetrachloride	**<17.7**	ug/kg	80.6	17.7	1	06/21/22 08:15	06/22/22 20:51	56-23-5	
Chlorobenzene	**<9.7**	ug/kg	80.6	9.7	1	06/21/22 08:15	06/22/22 20:51	108-90-7	
Chloroethane	**<34.0**	ug/kg	403	34.0	1	06/21/22 08:15	06/22/22 20:51	75-00-3	
Chloroform	**<57.7**	ug/kg	403	57.7	1	06/21/22 08:15	06/22/22 20:51	67-66-3	
Chloromethane	**<30.6**	ug/kg	80.6	30.6	1	06/21/22 08:15	06/22/22 20:51	74-87-3	
2-Chlorotoluene	**<26.1**	ug/kg	80.6	26.1	1	06/21/22 08:15	06/22/22 20:51	95-49-8	
4-Chlorotoluene	**<30.6**	ug/kg	80.6	30.6	1	06/21/22 08:15	06/22/22 20:51	106-43-4	
1,2-Dibromo-3-chloropropane	**<62.6**	ug/kg	403	62.6	1	06/21/22 08:15	06/22/22 20:51	96-12-8	
Dibromochloromethane	**<276**	ug/kg	403	276	1	06/21/22 08:15	06/22/22 20:51	124-48-1	
1,2-Dibromoethane (EDB)	**<22.1**	ug/kg	80.6	22.1	1	06/21/22 08:15	06/22/22 20:51	106-93-4	
Dibromomethane	**<23.9**	ug/kg	80.6	23.9	1	06/21/22 08:15	06/22/22 20:51	74-95-3	
1,2-Dichlorobenzene	**<25.0**	ug/kg	80.6	25.0	1	06/21/22 08:15	06/22/22 20:51	95-50-1	
1,3-Dichlorobenzene	**<22.1**	ug/kg	80.6	22.1	1	06/21/22 08:15	06/22/22 20:51	541-73-1	
1,4-Dichlorobenzene	**<22.1**	ug/kg	80.6	22.1	1	06/21/22 08:15	06/22/22 20:51	106-46-7	
Dichlorodifluoromethane	**<34.7**	ug/kg	80.6	34.7	1	06/21/22 08:15	06/22/22 20:51	75-71-8	
1,1-Dichloroethane	**<20.6**	ug/kg	80.6	20.6	1	06/21/22 08:15	06/22/22 20:51	75-34-3	
1,2-Dichloroethane	**<18.5**	ug/kg	80.6	18.5	1	06/21/22 08:15	06/22/22 20:51	107-06-2	
1,1-Dichloroethene	**<26.8**	ug/kg	80.6	26.8	1	06/21/22 08:15	06/22/22 20:51	75-35-4	
cis-1,2-Dichloroethene	**<17.3**	ug/kg	80.6	17.3	1	06/21/22 08:15	06/22/22 20:51	156-59-2	
trans-1,2-Dichloroethene	**<17.4**	ug/kg	80.6	17.4	1	06/21/22 08:15	06/22/22 20:51	156-60-5	
1,2-Dichloropropane	**<19.2**	ug/kg	80.6	19.2	1	06/21/22 08:15	06/22/22 20:51	78-87-5	
1,3-Dichloropropane	**<17.6**	ug/kg	80.6	17.6	1	06/21/22 08:15	06/22/22 20:51	142-28-9	
2,2-Dichloropropane	**<21.8**	ug/kg	80.6	21.8	1	06/21/22 08:15	06/22/22 20:51	594-20-7	
1,1-Dichloropropene	**<26.1**	ug/kg	80.6	26.1	1	06/21/22 08:15	06/22/22 20:51	563-58-6	
cis-1,3-Dichloropropene	**<53.2**	ug/kg	403	53.2	1	06/21/22 08:15	06/22/22 20:51	10061-01-5	
trans-1,3-Dichloropropene	**<231**	ug/kg	403	231	1	06/21/22 08:15	06/22/22 20:51	10061-02-6	
Diisopropyl ether	**<20.0**	ug/kg	80.6	20.0	1	06/21/22 08:15	06/22/22 20:51	108-20-3	

REPORT OF LABORATORY ANALYSIS

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(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-5_(1-3) **Lab ID: 40246796004** Collected: 06/13/22 13:45 Received: 06/17/22 14:05 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	**<19.2**	ug/kg	80.6	19.2	1	06/21/22 08:15	06/22/22 20:51	100-41-4	
Hexachloro-1,3-butadiene	**<160**	ug/kg	403	160	1	06/21/22 08:15	06/22/22 20:51	87-68-3	
Isopropylbenzene (Cumene)	**<21.8**	ug/kg	80.6	21.8	1	06/21/22 08:15	06/22/22 20:51	98-82-8	
p-Isopropyltoluene	**<24.5**	ug/kg	80.6	24.5	1	06/21/22 08:15	06/22/22 20:51	99-87-6	
Methylene Chloride	**<22.4**	ug/kg	80.6	22.4	1	06/21/22 08:15	06/22/22 20:51	75-09-2	
Methyl-tert-butyl ether	**<23.7**	ug/kg	80.6	23.7	1	06/21/22 08:15	06/22/22 20:51	1634-04-4	
Naphthalene	**<25.2**	ug/kg	403	25.2	1	06/21/22 08:15	06/22/22 20:51	91-20-3	
n-Propylbenzene	**<19.3**	ug/kg	80.6	19.3	1	06/21/22 08:15	06/22/22 20:51	103-65-1	
Styrene	**<20.6**	ug/kg	80.6	20.6	1	06/21/22 08:15	06/22/22 20:51	100-42-5	
1,1,1,2-Tetrachloroethane	**<19.3**	ug/kg	80.6	19.3	1	06/21/22 08:15	06/22/22 20:51	630-20-6	
1,1,2,2-Tetrachloroethane	**<29.2**	ug/kg	80.6	29.2	1	06/21/22 08:15	06/22/22 20:51	79-34-5	
Tetrachloroethene	**<31.3**	ug/kg	80.6	31.3	1	06/21/22 08:15	06/22/22 20:51	127-18-4	
Toluene	**<20.3**	ug/kg	80.6	20.3	1	06/21/22 08:15	06/22/22 20:51	108-88-3	
1,2,3-Trichlorobenzene	**<89.8**	ug/kg	403	89.8	1	06/21/22 08:15	06/22/22 20:51	87-61-6	
1,2,4-Trichlorobenzene	**<66.4**	ug/kg	403	66.4	1	06/21/22 08:15	06/22/22 20:51	120-82-1	
1,1,1-Trichloroethane	**<20.6**	ug/kg	80.6	20.6	1	06/21/22 08:15	06/22/22 20:51	71-55-6	
1,1,2-Trichloroethane	**<29.3**	ug/kg	80.6	29.3	1	06/21/22 08:15	06/22/22 20:51	79-00-5	
Trichloroethene	**<30.2**	ug/kg	80.6	30.2	1	06/21/22 08:15	06/22/22 20:51	79-01-6	
Trichlorofluoromethane	**<23.4**	ug/kg	80.6	23.4	1	06/21/22 08:15	06/22/22 20:51	75-69-4	
1,2,3-Trichloropropane	**<39.2**	ug/kg	80.6	39.2	1	06/21/22 08:15	06/22/22 20:51	96-18-4	
1,2,4-Trimethylbenzene	**<24.0**	ug/kg	80.6	24.0	1	06/21/22 08:15	06/22/22 20:51	95-63-6	
1,3,5-Trimethylbenzene	**<26.0**	ug/kg	80.6	26.0	1	06/21/22 08:15	06/22/22 20:51	108-67-8	
Vinyl chloride	**<16.3**	ug/kg	80.6	16.3	1	06/21/22 08:15	06/22/22 20:51	75-01-4	
Xylene (Total)	**<58.2**	ug/kg	242	58.2	1	06/21/22 08:15	06/22/22 20:51	1330-20-7	
m&p-Xylene	**<34.0**	ug/kg	161	34.0	1	06/21/22 08:15	06/22/22 20:51	179601-23-1	
o-Xylene	**<24.2**	ug/kg	80.6	24.2	1	06/21/22 08:15	06/22/22 20:51	95-47-6	
Surrogates									
Toluene-d8 (S)	148	%	69-153		1	06/21/22 08:15	06/22/22 20:51	2037-26-5	
4-Bromofluorobenzene (S)	144	%	68-156		1	06/21/22 08:15	06/22/22 20:51	460-00-4	
1,2-Dichlorobenzene-d4 (S)	129	%	71-161		1	06/21/22 08:15	06/22/22 20:51	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**23.4**	%	0.10	0.10	1		06/20/22 11:06		

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-14_(1.5-3.5) **Lab ID: 40246796005** Collected: 06/14/22 07:40 Received: 06/17/22 14:05 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)	**<17.9**	ug/kg	58.7	17.9	1	06/21/22 11:52	06/22/22 18:41	12674-11-2	
PCB-1221 (Aroclor 1221)	**<17.9**	ug/kg	58.7	17.9	1	06/21/22 11:52	06/22/22 18:41	11104-28-2	
PCB-1232 (Aroclor 1232)	**<17.9**	ug/kg	58.7	17.9	1	06/21/22 11:52	06/22/22 18:41	11141-16-5	
PCB-1242 (Aroclor 1242)	**<17.9**	ug/kg	58.7	17.9	1	06/21/22 11:52	06/22/22 18:41	53469-21-9	
PCB-1248 (Aroclor 1248)	**<17.9**	ug/kg	58.7	17.9	1	06/21/22 11:52	06/22/22 18:41	12672-29-6	
PCB-1254 (Aroclor 1254)	**29.5J**	ug/kg	58.7	17.9	1	06/21/22 11:52	06/22/22 18:41	11097-69-1	
PCB-1260 (Aroclor 1260)	**27.0J**	ug/kg	58.7	17.9	1	06/21/22 11:52	06/22/22 18:41	11096-82-5	
PCB, Total	**56.6J**	ug/kg	58.7	17.9	1	06/21/22 11:52	06/22/22 18:41	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	74	%	50-99		1	06/21/22 11:52	06/22/22 18:41	877-09-8	
Decachlorobiphenyl (S)	58	%	38-95		1	06/21/22 11:52	06/22/22 18:41	2051-24-3	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Arsenic	**5.3**	mg/kg	2.8	1.7	1	06/21/22 06:58	06/21/22 20:09	7440-38-2	
Barium	**44.6**	mg/kg	0.57	0.17	1	06/21/22 06:58	06/21/22 20:09	7440-39-3	
Cadmium	**0.60**	mg/kg	0.57	0.15	1	06/21/22 06:58	06/21/22 20:09	7440-43-9	
Chromium	**7.7**	mg/kg	1.1	0.32	1	06/21/22 06:58	06/21/22 20:09	7440-47-3	
Lead	**153**	mg/kg	2.3	0.68	1	06/21/22 06:58	06/21/22 20:09	7439-92-1	
Selenium	**<1.5**	mg/kg	4.6	1.5	1	06/21/22 06:58	06/21/22 20:09	7782-49-2	
Silver	**<0.35**	mg/kg	1.1	0.35	1	06/21/22 06:58	06/21/22 20:09	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.044**	mg/kg	0.039	0.011	1	06/24/22 08:09	06/27/22 07:53	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**70.9J**	ug/kg	98.3	12.8	5	06/23/22 07:45	06/23/22 13:57	83-32-9	
Acenaphthylene	**54.3J**	ug/kg	98.3	12.4	5	06/23/22 07:45	06/23/22 13:57	208-96-8	
Anthracene	**233**	ug/kg	98.3	12.2	5	06/23/22 07:45	06/23/22 13:57	120-12-7	
Benzo(a)anthracene	**492**	ug/kg	98.3	12.7	5	06/23/22 07:45	06/23/22 13:57	56-55-3	
Benzo(a)pyrene	**470**	ug/kg	98.3	11.2	5	06/23/22 07:45	06/23/22 13:57	50-32-8	
Benzo(b)fluoranthene	**627**	ug/kg	98.3	13.6	5	06/23/22 07:45	06/23/22 13:57	205-99-2	
Benzo(g,h,i)perylene	**298**	ug/kg	98.3	17.3	5	06/23/22 07:45	06/23/22 13:57	191-24-2	
Benzo(k)fluoranthene	**315**	ug/kg	98.3	12.6	5	06/23/22 07:45	06/23/22 13:57	207-08-9	
Chrysene	**648**	ug/kg	98.3	18.5	5	06/23/22 07:45	06/23/22 13:57	218-01-9	
Dibenz(a,h)anthracene	**91.1J**	ug/kg	98.3	13.6	5	06/23/22 07:45	06/23/22 13:57	53-70-3	
Fluoranthene	**1160**	ug/kg	98.3	11.6	5	06/23/22 07:45	06/23/22 13:57	206-44-0	
Fluorene	**133**	ug/kg	98.3	11.8	5	06/23/22 07:45	06/23/22 13:57	86-73-7	
Indeno(1,2,3-cd)pyrene	**245**	ug/kg	98.3	20.5	5	06/23/22 07:45	06/23/22 13:57	193-39-5	
1-Methylnaphthalene	**60.1J**	ug/kg	98.3	14.4	5	06/23/22 07:45	06/23/22 13:57	90-12-0	
2-Methylnaphthalene	**90.4J**	ug/kg	98.3	14.4	5	06/23/22 07:45	06/23/22 13:57	91-57-6	
Naphthalene	**115**	ug/kg	98.3	9.6	5	06/23/22 07:45	06/23/22 13:57	91-20-3	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-14_(1.5-3.5) **Lab ID: 40246796005** Collected: 06/14/22 07:40 Received: 06/17/22 14:05 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	**853**	ug/kg	98.3	11.3	5	06/23/22 07:45	06/23/22 13:57	85-01-8	
Pyrene	**917**	ug/kg	98.3	14.4	5	06/23/22 07:45	06/23/22 13:57	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	59	%	41-98		5	06/23/22 07:45	06/23/22 13:57	321-60-8	
Terphenyl-d14 (S)	62	%	37-106		5	06/23/22 07:45	06/23/22 13:57	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Benzene	**<16.1**	ug/kg	27.1	16.1	1	06/21/22 08:15	06/22/22 21:11	71-43-2	
Bromobenzene	**<26.4**	ug/kg	67.7	26.4	1	06/21/22 08:15	06/22/22 21:11	108-86-1	
Bromochloromethane	**<18.6**	ug/kg	67.7	18.6	1	06/21/22 08:15	06/22/22 21:11	74-97-5	
Bromodichloromethane	**<16.1**	ug/kg	67.7	16.1	1	06/21/22 08:15	06/22/22 21:11	75-27-4	
Bromoform	**<298**	ug/kg	339	298	1	06/21/22 08:15	06/22/22 21:11	75-25-2	
Bromomethane	**<94.9**	ug/kg	339	94.9	1	06/21/22 08:15	06/22/22 21:11	74-83-9	
n-Butylbenzene	**<31.0**	ug/kg	67.7	31.0	1	06/21/22 08:15	06/22/22 21:11	104-51-8	
sec-Butylbenzene	**<16.5**	ug/kg	67.7	16.5	1	06/21/22 08:15	06/22/22 21:11	135-98-8	
tert-Butylbenzene	**<21.3**	ug/kg	67.7	21.3	1	06/21/22 08:15	06/22/22 21:11	98-06-6	
Carbon tetrachloride	**<14.9**	ug/kg	67.7	14.9	1	06/21/22 08:15	06/22/22 21:11	56-23-5	
Chlorobenzene	**<8.1**	ug/kg	67.7	8.1	1	06/21/22 08:15	06/22/22 21:11	108-90-7	
Chloroethane	**<28.6**	ug/kg	339	28.6	1	06/21/22 08:15	06/22/22 21:11	75-00-3	
Chloroform	**<48.5**	ug/kg	339	48.5	1	06/21/22 08:15	06/22/22 21:11	67-66-3	
Chloromethane	**<25.7**	ug/kg	67.7	25.7	1	06/21/22 08:15	06/22/22 21:11	74-87-3	
2-Chlorotoluene	**<21.9**	ug/kg	67.7	21.9	1	06/21/22 08:15	06/22/22 21:11	95-49-8	
4-Chlorotoluene	**<25.7**	ug/kg	67.7	25.7	1	06/21/22 08:15	06/22/22 21:11	106-43-4	
1,2-Dibromo-3-chloropropane	**<52.5**	ug/kg	339	52.5	1	06/21/22 08:15	06/22/22 21:11	96-12-8	
Dibromochloromethane	**<231**	ug/kg	339	231	1	06/21/22 08:15	06/22/22 21:11	124-48-1	
1,2-Dibromoethane (EDB)	**<18.6**	ug/kg	67.7	18.6	1	06/21/22 08:15	06/22/22 21:11	106-93-4	
Dibromomethane	**<20.0**	ug/kg	67.7	20.0	1	06/21/22 08:15	06/22/22 21:11	74-95-3	
1,2-Dichlorobenzene	**<21.0**	ug/kg	67.7	21.0	1	06/21/22 08:15	06/22/22 21:11	95-50-1	
1,3-Dichlorobenzene	**<18.6**	ug/kg	67.7	18.6	1	06/21/22 08:15	06/22/22 21:11	541-73-1	
1,4-Dichlorobenzene	**<18.6**	ug/kg	67.7	18.6	1	06/21/22 08:15	06/22/22 21:11	106-46-7	
Dichlorodifluoromethane	**<29.1**	ug/kg	67.7	29.1	1	06/21/22 08:15	06/22/22 21:11	75-71-8	
1,1-Dichloroethane	**<17.3**	ug/kg	67.7	17.3	1	06/21/22 08:15	06/22/22 21:11	75-34-3	
1,2-Dichloroethane	**<15.6**	ug/kg	67.7	15.6	1	06/21/22 08:15	06/22/22 21:11	107-06-2	
1,1-Dichloroethene	**<22.5**	ug/kg	67.7	22.5	1	06/21/22 08:15	06/22/22 21:11	75-35-4	
cis-1,2-Dichloroethene	**<14.5**	ug/kg	67.7	14.5	1	06/21/22 08:15	06/22/22 21:11	156-59-2	
trans-1,2-Dichloroethene	**<14.6**	ug/kg	67.7	14.6	1	06/21/22 08:15	06/22/22 21:11	156-60-5	
1,2-Dichloropropane	**<16.1**	ug/kg	67.7	16.1	1	06/21/22 08:15	06/22/22 21:11	78-87-5	
1,3-Dichloropropane	**<14.8**	ug/kg	67.7	14.8	1	06/21/22 08:15	06/22/22 21:11	142-28-9	
2,2-Dichloropropane	**<18.3**	ug/kg	67.7	18.3	1	06/21/22 08:15	06/22/22 21:11	594-20-7	
1,1-Dichloropropene	**<21.9**	ug/kg	67.7	21.9	1	06/21/22 08:15	06/22/22 21:11	563-58-6	
cis-1,3-Dichloropropene	**<44.7**	ug/kg	339	44.7	1	06/21/22 08:15	06/22/22 21:11	10061-01-5	
trans-1,3-Dichloropropene	**<194**	ug/kg	339	194	1	06/21/22 08:15	06/22/22 21:11	10061-02-6	
Diisopropyl ether	**<16.8**	ug/kg	67.7	16.8	1	06/21/22 08:15	06/22/22 21:11	108-20-3	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-14_(1.5-3.5) **Lab ID: 40246796005** Collected: 06/14/22 07:40 Received: 06/17/22 14:05 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	**<16.1**	ug/kg	67.7	16.1	1	06/21/22 08:15	06/22/22 21:11	100-41-4	
Hexachloro-1,3-butadiene	**<135**	ug/kg	339	135	1	06/21/22 08:15	06/22/22 21:11	87-68-3	
Isopropylbenzene (Cumene)	**<18.3**	ug/kg	67.7	18.3	1	06/21/22 08:15	06/22/22 21:11	98-82-8	
p-Isopropyltoluene	**<20.6**	ug/kg	67.7	20.6	1	06/21/22 08:15	06/22/22 21:11	99-87-6	
Methylene Chloride	**<18.8**	ug/kg	67.7	18.8	1	06/21/22 08:15	06/22/22 21:11	75-09-2	
Methyl-tert-butyl ether	**<19.9**	ug/kg	67.7	19.9	1	06/21/22 08:15	06/22/22 21:11	1634-04-4	
Naphthalene	**<21.1**	ug/kg	339	21.1	1	06/21/22 08:15	06/22/22 21:11	91-20-3	
n-Propylbenzene	**<16.2**	ug/kg	67.7	16.2	1	06/21/22 08:15	06/22/22 21:11	103-65-1	
Styrene	**<17.3**	ug/kg	67.7	17.3	1	06/21/22 08:15	06/22/22 21:11	100-42-5	
1,1,1,2-Tetrachloroethane	**<16.2**	ug/kg	67.7	16.2	1	06/21/22 08:15	06/22/22 21:11	630-20-6	
1,1,2,2-Tetrachloroethane	**<24.5**	ug/kg	67.7	24.5	1	06/21/22 08:15	06/22/22 21:11	79-34-5	
Tetrachloroethene	**<26.3**	ug/kg	67.7	26.3	1	06/21/22 08:15	06/22/22 21:11	127-18-4	
Toluene	**17.2J**	ug/kg	67.7	17.1	1	06/21/22 08:15	06/22/22 21:11	108-88-3	
1,2,3-Trichlorobenzene	**<75.4**	ug/kg	339	75.4	1	06/21/22 08:15	06/22/22 21:11	87-61-6	
1,2,4-Trichlorobenzene	**<55.8**	ug/kg	339	55.8	1	06/21/22 08:15	06/22/22 21:11	120-82-1	
1,1,1-Trichloroethane	**<17.3**	ug/kg	67.7	17.3	1	06/21/22 08:15	06/22/22 21:11	71-55-6	
1,1,2-Trichloroethane	**<24.6**	ug/kg	67.7	24.6	1	06/21/22 08:15	06/22/22 21:11	79-00-5	
Trichloroethene	**<25.3**	ug/kg	67.7	25.3	1	06/21/22 08:15	06/22/22 21:11	79-01-6	
Trichlorofluoromethane	**<19.6**	ug/kg	67.7	19.6	1	06/21/22 08:15	06/22/22 21:11	75-69-4	
1,2,3-Trichloropropane	**<32.9**	ug/kg	67.7	32.9	1	06/21/22 08:15	06/22/22 21:11	96-18-4	
1,2,4-Trimethylbenzene	**<20.2**	ug/kg	67.7	20.2	1	06/21/22 08:15	06/22/22 21:11	95-63-6	
1,3,5-Trimethylbenzene	**<21.8**	ug/kg	67.7	21.8	1	06/21/22 08:15	06/22/22 21:11	108-67-8	
Vinyl chloride	**<13.7**	ug/kg	67.7	13.7	1	06/21/22 08:15	06/22/22 21:11	75-01-4	
Xylene (Total)	**<48.9**	ug/kg	203	48.9	1	06/21/22 08:15	06/22/22 21:11	1330-20-7	
m&p-Xylene	**<28.6**	ug/kg	135	28.6	1	06/21/22 08:15	06/22/22 21:11	179601-23-1	
o-Xylene	**<20.3**	ug/kg	67.7	20.3	1	06/21/22 08:15	06/22/22 21:11	95-47-6	
Surrogates									
Toluene-d8 (S)	138	%	69-153		1	06/21/22 08:15	06/22/22 21:11	2037-26-5	
4-Bromofluorobenzene (S)	132	%	68-156		1	06/21/22 08:15	06/22/22 21:11	460-00-4	
1,2-Dichlorobenzene-d4 (S)	114	%	71-161		1	06/21/22 08:15	06/22/22 21:11	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**15.0**	%	0.10	0.10	1		06/20/22 11:06		

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-10_(2-4) **Lab ID: 40246796006** Collected: 06/14/22 08:15 Received: 06/17/22 14:05 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)	**<16.9**	ug/kg	55.6	16.9	1	06/21/22 11:52	06/22/22 21:05	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.9**	ug/kg	55.6	16.9	1	06/21/22 11:52	06/22/22 21:05	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.9**	ug/kg	55.6	16.9	1	06/21/22 11:52	06/22/22 21:05	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.9**	ug/kg	55.6	16.9	1	06/21/22 11:52	06/22/22 21:05	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.9**	ug/kg	55.6	16.9	1	06/21/22 11:52	06/22/22 21:05	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.9**	ug/kg	55.6	16.9	1	06/21/22 11:52	06/22/22 21:05	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.9**	ug/kg	55.6	16.9	1	06/21/22 11:52	06/22/22 21:05	11096-82-5	
PCB, Total	**<16.9**	ug/kg	55.6	16.9	1	06/21/22 11:52	06/22/22 21:05	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	76	%	50-99		1	06/21/22 11:52	06/22/22 21:05	877-09-8	
Decachlorobiphenyl (S)	69	%	38-95		1	06/21/22 11:52	06/22/22 21:05	2051-24-3	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Arsenic	**5.6**	mg/kg	2.6	1.5	1	06/21/22 06:58	06/21/22 20:12	7440-38-2	
Barium	**22.6**	mg/kg	0.52	0.16	1	06/21/22 06:58	06/21/22 20:12	7440-39-3	
Cadmium	**<0.14**	mg/kg	0.52	0.14	1	06/21/22 06:58	06/21/22 20:12	7440-43-9	
Chromium	**7.2**	mg/kg	1.0	0.29	1	06/21/22 06:58	06/21/22 20:12	7440-47-3	
Lead	**61.6**	mg/kg	2.1	0.63	1	06/21/22 06:58	06/21/22 20:12	7439-92-1	
Selenium	**<1.4**	mg/kg	4.2	1.4	1	06/21/22 06:58	06/21/22 20:12	7782-49-2	
Silver	**<0.32**	mg/kg	1.0	0.32	1	06/21/22 06:58	06/21/22 20:12	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.055**	mg/kg	0.035	0.010	1	06/24/22 08:09	06/27/22 07:55	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**35.1J**	ug/kg	92.8	12.0	5	06/23/22 07:45	06/23/22 14:14	83-32-9	
Acenaphthylene	**85.5J**	ug/kg	92.8	11.7	5	06/23/22 07:45	06/23/22 14:14	208-96-8	
Anthracene	**148**	ug/kg	92.8	11.5	5	06/23/22 07:45	06/23/22 14:14	120-12-7	
Benzo(a)anthracene	**470**	ug/kg	92.8	12.0	5	06/23/22 07:45	06/23/22 14:14	56-55-3	
Benzo(a)pyrene	**506**	ug/kg	92.8	10.5	5	06/23/22 07:45	06/23/22 14:14	50-32-8	
Benzo(b)fluoranthene	**608**	ug/kg	92.8	12.9	5	06/23/22 07:45	06/23/22 14:14	205-99-2	
Benzo(g,h,i)perylene	**350**	ug/kg	92.8	16.3	5	06/23/22 07:45	06/23/22 14:14	191-24-2	
Benzo(k)fluoranthene	**243**	ug/kg	92.8	11.9	5	06/23/22 07:45	06/23/22 14:14	207-08-9	
Chrysene	**527**	ug/kg	92.8	17.5	5	06/23/22 07:45	06/23/22 14:14	218-01-9	
Dibenz(a,h)anthracene	**96.7**	ug/kg	92.8	12.8	5	06/23/22 07:45	06/23/22 14:14	53-70-3	
Fluoranthene	**941**	ug/kg	92.8	11.0	5	06/23/22 07:45	06/23/22 14:14	206-44-0	
Fluorene	**57.4J**	ug/kg	92.8	11.1	5	06/23/22 07:45	06/23/22 14:14	86-73-7	
Indeno(1,2,3-cd)pyrene	**276**	ug/kg	92.8	19.3	5	06/23/22 07:45	06/23/22 14:14	193-39-5	
1-Methylnaphthalene	**94.7**	ug/kg	92.8	13.5	5	06/23/22 07:45	06/23/22 14:14	90-12-0	
2-Methylnaphthalene	**71.6J**	ug/kg	92.8	13.6	5	06/23/22 07:45	06/23/22 14:14	91-57-6	
Naphthalene	**136**	ug/kg	92.8	9.0	5	06/23/22 07:45	06/23/22 14:14	91-20-3	

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(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-10_(2-4) **Lab ID: 40246796006** Collected: 06/14/22 08:15 Received: 06/17/22 14:05 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	**511**	ug/kg	92.8	10.6	5	06/23/22 07:45	06/23/22 14:14	85-01-8	
Pyrene	**893**	ug/kg	92.8	13.6	5	06/23/22 07:45	06/23/22 14:14	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	52	%	41-98		5	06/23/22 07:45	06/23/22 14:14	321-60-8	
Terphenyl-d14 (S)	55	%	37-106		5	06/23/22 07:45	06/23/22 14:14	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	24.5	14.6	1	06/21/22 08:15	06/22/22 21:30	71-43-2	
Bromobenzene	**<23.9**	ug/kg	61.2	23.9	1	06/21/22 08:15	06/22/22 21:30	108-86-1	
Bromochloromethane	**<16.8**	ug/kg	61.2	16.8	1	06/21/22 08:15	06/22/22 21:30	74-97-5	
Bromodichloromethane	**<14.6**	ug/kg	61.2	14.6	1	06/21/22 08:15	06/22/22 21:30	75-27-4	
Bromoform	**<269**	ug/kg	306	269	1	06/21/22 08:15	06/22/22 21:30	75-25-2	
Bromomethane	**<85.8**	ug/kg	306	85.8	1	06/21/22 08:15	06/22/22 21:30	74-83-9	
n-Butylbenzene	**<28.0**	ug/kg	61.2	28.0	1	06/21/22 08:15	06/22/22 21:30	104-51-8	
sec-Butylbenzene	**<14.9**	ug/kg	61.2	14.9	1	06/21/22 08:15	06/22/22 21:30	135-98-8	
tert-Butylbenzene	**<19.2**	ug/kg	61.2	19.2	1	06/21/22 08:15	06/22/22 21:30	98-06-6	
Carbon tetrachloride	**<13.5**	ug/kg	61.2	13.5	1	06/21/22 08:15	06/22/22 21:30	56-23-5	
Chlorobenzene	**10.9J**	ug/kg	61.2	7.3	1	06/21/22 08:15	06/22/22 21:30	108-90-7	
Chloroethane	**<25.8**	ug/kg	306	25.8	1	06/21/22 08:15	06/22/22 21:30	75-00-3	
Chloroform	**<43.8**	ug/kg	306	43.8	1	06/21/22 08:15	06/22/22 21:30	67-66-3	
Chloromethane	**<23.3**	ug/kg	61.2	23.3	1	06/21/22 08:15	06/22/22 21:30	74-87-3	
2-Chlorotoluene	**<19.8**	ug/kg	61.2	19.8	1	06/21/22 08:15	06/22/22 21:30	95-49-8	
4-Chlorotoluene	**<23.3**	ug/kg	61.2	23.3	1	06/21/22 08:15	06/22/22 21:30	106-43-4	
1,2-Dibromo-3-chloropropane	**<47.5**	ug/kg	306	47.5	1	06/21/22 08:15	06/22/22 21:30	96-12-8	
Dibromochloromethane	**<209**	ug/kg	306	209	1	06/21/22 08:15	06/22/22 21:30	124-48-1	
1,2-Dibromoethane (EDB)	**<16.8**	ug/kg	61.2	16.8	1	06/21/22 08:15	06/22/22 21:30	106-93-4	
Dibromomethane	**<18.1**	ug/kg	61.2	18.1	1	06/21/22 08:15	06/22/22 21:30	74-95-3	
1,2-Dichlorobenzene	**<19.0**	ug/kg	61.2	19.0	1	06/21/22 08:15	06/22/22 21:30	95-50-1	
1,3-Dichlorobenzene	**<16.8**	ug/kg	61.2	16.8	1	06/21/22 08:15	06/22/22 21:30	541-73-1	
1,4-Dichlorobenzene	**<16.8**	ug/kg	61.2	16.8	1	06/21/22 08:15	06/22/22 21:30	106-46-7	
Dichlorodifluoromethane	**<26.3**	ug/kg	61.2	26.3	1	06/21/22 08:15	06/22/22 21:30	75-71-8	
1,1-Dichloroethane	**<15.7**	ug/kg	61.2	15.7	1	06/21/22 08:15	06/22/22 21:30	75-34-3	
1,2-Dichloroethane	**<14.1**	ug/kg	61.2	14.1	1	06/21/22 08:15	06/22/22 21:30	107-06-2	
1,1-Dichloroethene	**<20.3**	ug/kg	61.2	20.3	1	06/21/22 08:15	06/22/22 21:30	75-35-4	
cis-1,2-Dichloroethene	**15.6J**	ug/kg	61.2	13.1	1	06/21/22 08:15	06/22/22 21:30	156-59-2	
trans-1,2-Dichloroethene	**<13.2**	ug/kg	61.2	13.2	1	06/21/22 08:15	06/22/22 21:30	156-60-5	
1,2-Dichloropropane	**<14.6**	ug/kg	61.2	14.6	1	06/21/22 08:15	06/22/22 21:30	78-87-5	
1,3-Dichloropropane	**<13.3**	ug/kg	61.2	13.3	1	06/21/22 08:15	06/22/22 21:30	142-28-9	
2,2-Dichloropropane	**<16.5**	ug/kg	61.2	16.5	1	06/21/22 08:15	06/22/22 21:30	594-20-7	
1,1-Dichloropropene	**<19.8**	ug/kg	61.2	19.8	1	06/21/22 08:15	06/22/22 21:30	563-58-6	
cis-1,3-Dichloropropene	**<40.4**	ug/kg	306	40.4	1	06/21/22 08:15	06/22/22 21:30	10061-01-5	
trans-1,3-Dichloropropene	**<175**	ug/kg	306	175	1	06/21/22 08:15	06/22/22 21:30	10061-02-6	
Diisopropyl ether	**<15.2**	ug/kg	61.2	15.2	1	06/21/22 08:15	06/22/22 21:30	108-20-3	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-10_(2-4) **Lab ID: 40246796006** Collected: 06/14/22 08:15 Received: 06/17/22 14:05 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	**<14.6**	ug/kg	61.2	14.6	1	06/21/22 08:15	06/22/22 21:30	100-41-4	
Hexachloro-1,3-butadiene	**<122**	ug/kg	306	122	1	06/21/22 08:15	06/22/22 21:30	87-68-3	
Isopropylbenzene (Cumene)	**<16.5**	ug/kg	61.2	16.5	1	06/21/22 08:15	06/22/22 21:30	98-82-8	
p-Isopropyltoluene	**<18.6**	ug/kg	61.2	18.6	1	06/21/22 08:15	06/22/22 21:30	99-87-6	
Methylene Chloride	**<17.0**	ug/kg	61.2	17.0	1	06/21/22 08:15	06/22/22 21:30	75-09-2	
Methyl-tert-butyl ether	**<18.0**	ug/kg	61.2	18.0	1	06/21/22 08:15	06/22/22 21:30	1634-04-4	
Naphthalene	**46.0J**	ug/kg	306	19.1	1	06/21/22 08:15	06/22/22 21:30	91-20-3	
n-Propylbenzene	**14.8J**	ug/kg	61.2	14.7	1	06/21/22 08:15	06/22/22 21:30	103-65-1	
Styrene	**<15.7**	ug/kg	61.2	15.7	1	06/21/22 08:15	06/22/22 21:30	100-42-5	
1,1,1,2-Tetrachloroethane	**<14.7**	ug/kg	61.2	14.7	1	06/21/22 08:15	06/22/22 21:30	630-20-6	
1,1,2,2-Tetrachloroethane	**<22.2**	ug/kg	61.2	22.2	1	06/21/22 08:15	06/22/22 21:30	79-34-5	
Tetrachloroethene	**<23.8**	ug/kg	61.2	23.8	1	06/21/22 08:15	06/22/22 21:30	127-18-4	
Toluene	**43.6J**	ug/kg	61.2	15.4	1	06/21/22 08:15	06/22/22 21:30	108-88-3	
1,2,3-Trichlorobenzene	**<68.2**	ug/kg	306	68.2	1	06/21/22 08:15	06/22/22 21:30	87-61-6	
1,2,4-Trichlorobenzene	**<50.5**	ug/kg	306	50.5	1	06/21/22 08:15	06/22/22 21:30	120-82-1	
1,1,1-Trichloroethane	**<15.7**	ug/kg	61.2	15.7	1	06/21/22 08:15	06/22/22 21:30	71-55-6	
1,1,2-Trichloroethane	**<22.3**	ug/kg	61.2	22.3	1	06/21/22 08:15	06/22/22 21:30	79-00-5	
Trichloroethene	**24.7J**	ug/kg	61.2	22.9	1	06/21/22 08:15	06/22/22 21:30	79-01-6	
Trichlorofluoromethane	**<17.8**	ug/kg	61.2	17.8	1	06/21/22 08:15	06/22/22 21:30	75-69-4	
1,2,3-Trichloropropane	**<29.8**	ug/kg	61.2	29.8	1	06/21/22 08:15	06/22/22 21:30	96-18-4	
1,2,4-Trimethylbenzene	**19.8J**	ug/kg	61.2	18.2	1	06/21/22 08:15	06/22/22 21:30	95-63-6	
1,3,5-Trimethylbenzene	**<19.7**	ug/kg	61.2	19.7	1	06/21/22 08:15	06/22/22 21:30	108-67-8	
Vinyl chloride	**<12.4**	ug/kg	61.2	12.4	1	06/21/22 08:15	06/22/22 21:30	75-01-4	
Xylene (Total)	**<44.2**	ug/kg	184	44.2	1	06/21/22 08:15	06/22/22 21:30	1330-20-7	
m&p-Xylene	**34.5J**	ug/kg	122	25.8	1	06/21/22 08:15	06/22/22 21:30	179601-23-1	
o-Xylene	**<18.4**	ug/kg	61.2	18.4	1	06/21/22 08:15	06/22/22 21:30	95-47-6	
Surrogates									
Toluene-d8 (S)	126	%	69-153		1	06/21/22 08:15	06/22/22 21:30	2037-26-5	
4-Bromofluorobenzene (S)	119	%	68-156		1	06/21/22 08:15	06/22/22 21:30	460-00-4	
1,2-Dichlorobenzene-d4 (S)	108	%	71-161		1	06/21/22 08:15	06/22/22 21:30	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**10.1**	%	0.10	0.10	1		06/20/22 11:06		

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-2_(1.5-3.5) **Lab ID: 40246796007** Collected: 06/14/22 11:00 Received: 06/17/22 14:05 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)	**<16.2**	ug/kg	53.2	16.2	1	06/21/22 11:52	06/22/22 21:29	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.2**	ug/kg	53.2	16.2	1	06/21/22 11:52	06/22/22 21:29	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.2**	ug/kg	53.2	16.2	1	06/21/22 11:52	06/22/22 21:29	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.2**	ug/kg	53.2	16.2	1	06/21/22 11:52	06/22/22 21:29	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.2**	ug/kg	53.2	16.2	1	06/21/22 11:52	06/22/22 21:29	12672-29-6	
PCB-1254 (Aroclor 1254)	**<16.2**	ug/kg	53.2	16.2	1	06/21/22 11:52	06/22/22 21:29	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.2**	ug/kg	53.2	16.2	1	06/21/22 11:52	06/22/22 21:29	11096-82-5	
PCB, Total	**<16.2**	ug/kg	53.2	16.2	1	06/21/22 11:52	06/22/22 21:29	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	75	%	50-99		1	06/21/22 11:52	06/22/22 21:29	877-09-8	
Decachlorobiphenyl (S)	57	%	38-95		1	06/21/22 11:52	06/22/22 21:29	2051-24-3	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Arsenic	**2.6J**	mg/kg	2.7	1.6	1	06/21/22 06:58	06/21/22 20:14	7440-38-2	
Barium	**35.3**	mg/kg	0.53	0.16	1	06/21/22 06:58	06/21/22 20:14	7440-39-3	
Cadmium	**0.23J**	mg/kg	0.53	0.14	1	06/21/22 06:58	06/21/22 20:14	7440-43-9	
Chromium	**9.6**	mg/kg	1.1	0.30	1	06/21/22 06:58	06/21/22 20:14	7440-47-3	
Lead	**17.9**	mg/kg	2.1	0.64	1	06/21/22 06:58	06/21/22 20:14	7439-92-1	
Selenium	**<1.4**	mg/kg	4.3	1.4	1	06/21/22 06:58	06/21/22 20:14	7782-49-2	
Silver	**<0.33**	mg/kg	1.1	0.33	1	06/21/22 06:58	06/21/22 20:14	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.016J**	mg/kg	0.035	0.010	1	06/24/22 08:09	06/27/22 08:02	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**8.0J**	ug/kg	17.8	2.3	1	06/23/22 07:45	06/23/22 14:32	83-32-9	
Acenaphthylene	**18.0**	ug/kg	17.8	2.2	1	06/23/22 07:45	06/23/22 14:32	208-96-8	
Anthracene	**21.7**	ug/kg	17.8	2.2	1	06/23/22 07:45	06/23/22 14:32	120-12-7	
Benzo(a)anthracene	**83.5**	ug/kg	17.8	2.3	1	06/23/22 07:45	06/23/22 14:32	56-55-3	
Benzo(a)pyrene	**107**	ug/kg	17.8	2.0	1	06/23/22 07:45	06/23/22 14:32	50-32-8	
Benzo(b)fluoranthene	**151**	ug/kg	17.8	2.5	1	06/23/22 07:45	06/23/22 14:32	205-99-2	
Benzo(g,h,i)perylene	**95.1**	ug/kg	17.8	3.1	1	06/23/22 07:45	06/23/22 14:32	191-24-2	
Benzo(k)fluoranthene	**57.8**	ug/kg	17.8	2.3	1	06/23/22 07:45	06/23/22 14:32	207-08-9	
Chrysene	**116**	ug/kg	17.8	3.4	1	06/23/22 07:45	06/23/22 14:32	218-01-9	
Dibenz(a,h)anthracene	**19.5**	ug/kg	17.8	2.5	1	06/23/22 07:45	06/23/22 14:32	53-70-3	
Fluoranthene	**209**	ug/kg	17.8	2.1	1	06/23/22 07:45	06/23/22 14:32	206-44-0	
Fluorene	**9.8J**	ug/kg	17.8	2.1	1	06/23/22 07:45	06/23/22 14:32	86-73-7	
Indeno(1,2,3-cd)pyrene	**67.9**	ug/kg	17.8	3.7	1	06/23/22 07:45	06/23/22 14:32	193-39-5	
1-Methylnaphthalene	**9.1J**	ug/kg	17.8	2.6	1	06/23/22 07:45	06/23/22 14:32	90-12-0	
2-Methylnaphthalene	**12.8J**	ug/kg	17.8	2.6	1	06/23/22 07:45	06/23/22 14:32	91-57-6	
Naphthalene	**12.5J**	ug/kg	17.8	1.7	1	06/23/22 07:45	06/23/22 14:32	91-20-3	

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-2_(1.5-3.5) **Lab ID: 40246796007** Collected: 06/14/22 11:00 Received: 06/17/22 14:05 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	**106**	ug/kg	17.8	2.0	1	06/23/22 07:45	06/23/22 14:32	85-01-8	
Pyrene	**164**	ug/kg	17.8	2.6	1	06/23/22 07:45	06/23/22 14:32	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	69	%	41-98		1	06/23/22 07:45	06/23/22 14:32	321-60-8	
Terphenyl-d14 (S)	74	%	37-106		1	06/23/22 07:45	06/23/22 14:32	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Benzene	**20.6J**	ug/kg	22.6	13.4	1	06/21/22 08:15	06/22/22 21:49	71-43-2	
Bromobenzene	**<22.0**	ug/kg	56.5	22.0	1	06/21/22 08:15	06/22/22 21:49	108-86-1	
Bromochloromethane	**<15.5**	ug/kg	56.5	15.5	1	06/21/22 08:15	06/22/22 21:49	74-97-5	
Bromodichloromethane	**<13.4**	ug/kg	56.5	13.4	1	06/21/22 08:15	06/22/22 21:49	75-27-4	
Bromoform	**<248**	ug/kg	282	248	1	06/21/22 08:15	06/22/22 21:49	75-25-2	
Bromomethane	**<79.2**	ug/kg	282	79.2	1	06/21/22 08:15	06/22/22 21:49	74-83-9	
n-Butylbenzene	**<25.9**	ug/kg	56.5	25.9	1	06/21/22 08:15	06/22/22 21:49	104-51-8	
sec-Butylbenzene	**<13.8**	ug/kg	56.5	13.8	1	06/21/22 08:15	06/22/22 21:49	135-98-8	
tert-Butylbenzene	**<17.7**	ug/kg	56.5	17.7	1	06/21/22 08:15	06/22/22 21:49	98-06-6	
Carbon tetrachloride	**<12.4**	ug/kg	56.5	12.4	1	06/21/22 08:15	06/22/22 21:49	56-23-5	
Chlorobenzene	**<6.8**	ug/kg	56.5	6.8	1	06/21/22 08:15	06/22/22 21:49	108-90-7	
Chloroethane	**<23.8**	ug/kg	282	23.8	1	06/21/22 08:15	06/22/22 21:49	75-00-3	
Chloroform	**<40.4**	ug/kg	282	40.4	1	06/21/22 08:15	06/22/22 21:49	67-66-3	
Chloromethane	**<21.5**	ug/kg	56.5	21.5	1	06/21/22 08:15	06/22/22 21:49	74-87-3	
2-Chlorotoluene	**<18.3**	ug/kg	56.5	18.3	1	06/21/22 08:15	06/22/22 21:49	95-49-8	
4-Chlorotoluene	**<21.5**	ug/kg	56.5	21.5	1	06/21/22 08:15	06/22/22 21:49	106-43-4	
1,2-Dibromo-3-chloropropane	**<43.8**	ug/kg	282	43.8	1	06/21/22 08:15	06/22/22 21:49	96-12-8	
Dibromochloromethane	**<193**	ug/kg	282	193	1	06/21/22 08:15	06/22/22 21:49	124-48-1	
1,2-Dibromoethane (EDB)	**<15.5**	ug/kg	56.5	15.5	1	06/21/22 08:15	06/22/22 21:49	106-93-4	
Dibromomethane	**<16.7**	ug/kg	56.5	16.7	1	06/21/22 08:15	06/22/22 21:49	74-95-3	
1,2-Dichlorobenzene	**<17.5**	ug/kg	56.5	17.5	1	06/21/22 08:15	06/22/22 21:49	95-50-1	
1,3-Dichlorobenzene	**<15.5**	ug/kg	56.5	15.5	1	06/21/22 08:15	06/22/22 21:49	541-73-1	
1,4-Dichlorobenzene	**37.5J**	ug/kg	56.5	15.5	1	06/21/22 08:15	06/22/22 21:49	106-46-7	
Dichlorodifluoromethane	**<24.3**	ug/kg	56.5	24.3	1	06/21/22 08:15	06/22/22 21:49	75-71-8	
1,1-Dichloroethane	**<14.5**	ug/kg	56.5	14.5	1	06/21/22 08:15	06/22/22 21:49	75-34-3	
1,2-Dichloroethane	**<13.0**	ug/kg	56.5	13.0	1	06/21/22 08:15	06/22/22 21:49	107-06-2	
1,1-Dichloroethene	**<18.7**	ug/kg	56.5	18.7	1	06/21/22 08:15	06/22/22 21:49	75-35-4	
cis-1,2-Dichloroethene	**<12.1**	ug/kg	56.5	12.1	1	06/21/22 08:15	06/22/22 21:49	156-59-2	
trans-1,2-Dichloroethene	**<12.2**	ug/kg	56.5	12.2	1	06/21/22 08:15	06/22/22 21:49	156-60-5	
1,2-Dichloropropane	**<13.4**	ug/kg	56.5	13.4	1	06/21/22 08:15	06/22/22 21:49	78-87-5	
1,3-Dichloropropane	**<12.3**	ug/kg	56.5	12.3	1	06/21/22 08:15	06/22/22 21:49	142-28-9	
2,2-Dichloropropane	**<15.2**	ug/kg	56.5	15.2	1	06/21/22 08:15	06/22/22 21:49	594-20-7	
1,1-Dichloropropene	**<18.3**	ug/kg	56.5	18.3	1	06/21/22 08:15	06/22/22 21:49	563-58-6	
cis-1,3-Dichloropropene	**<37.3**	ug/kg	282	37.3	1	06/21/22 08:15	06/22/22 21:49	10061-01-5	
trans-1,3-Dichloropropene	**<161**	ug/kg	282	161	1	06/21/22 08:15	06/22/22 21:49	10061-02-6	
Diisopropyl ether	**<14.0**	ug/kg	56.5	14.0	1	06/21/22 08:15	06/22/22 21:49	108-20-3	

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(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-2_(1.5-3.5) **Lab ID: 40246796007** Collected: 06/14/22 11:00 Received: 06/17/22 14:05 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	**<13.4**	ug/kg	56.5	13.4	1	06/21/22 08:15	06/22/22 21:49	100-41-4	
Hexachloro-1,3-butadiene	**<112**	ug/kg	282	112	1	06/21/22 08:15	06/22/22 21:49	87-68-3	
Isopropylbenzene (Cumene)	**<15.2**	ug/kg	56.5	15.2	1	06/21/22 08:15	06/22/22 21:49	98-82-8	
p-Isopropyltoluene	**<17.2**	ug/kg	56.5	17.2	1	06/21/22 08:15	06/22/22 21:49	99-87-6	
Methylene Chloride	**<15.7**	ug/kg	56.5	15.7	1	06/21/22 08:15	06/22/22 21:49	75-09-2	
Methyl-tert-butyl ether	**<16.6**	ug/kg	56.5	16.6	1	06/21/22 08:15	06/22/22 21:49	1634-04-4	
Naphthalene	**<17.6**	ug/kg	282	17.6	1	06/21/22 08:15	06/22/22 21:49	91-20-3	
n-Propylbenzene	**<13.5**	ug/kg	56.5	13.5	1	06/21/22 08:15	06/22/22 21:49	103-65-1	
Styrene	**<14.5**	ug/kg	56.5	14.5	1	06/21/22 08:15	06/22/22 21:49	100-42-5	
1,1,1,2-Tetrachloroethane	**<13.5**	ug/kg	56.5	13.5	1	06/21/22 08:15	06/22/22 21:49	630-20-6	
1,1,2,2-Tetrachloroethane	**<20.4**	ug/kg	56.5	20.4	1	06/21/22 08:15	06/22/22 21:49	79-34-5	
Tetrachloroethene	**57.8**	ug/kg	56.5	21.9	1	06/21/22 08:15	06/22/22 21:49	127-18-4	
Toluene	**129**	ug/kg	56.5	14.2	1	06/21/22 08:15	06/22/22 21:49	108-88-3	
1,2,3-Trichlorobenzene	**<62.9**	ug/kg	282	62.9	1	06/21/22 08:15	06/22/22 21:49	87-61-6	
1,2,4-Trichlorobenzene	**<46.5**	ug/kg	282	46.5	1	06/21/22 08:15	06/22/22 21:49	120-82-1	
1,1,1-Trichloroethane	**<14.5**	ug/kg	56.5	14.5	1	06/21/22 08:15	06/22/22 21:49	71-55-6	
1,1,2-Trichloroethane	**<20.6**	ug/kg	56.5	20.6	1	06/21/22 08:15	06/22/22 21:49	79-00-5	
Trichloroethene	**<21.1**	ug/kg	56.5	21.1	1	06/21/22 08:15	06/22/22 21:49	79-01-6	
Trichlorofluoromethane	**<16.4**	ug/kg	56.5	16.4	1	06/21/22 08:15	06/22/22 21:49	75-69-4	
1,2,3-Trichloropropane	**<27.4**	ug/kg	56.5	27.4	1	06/21/22 08:15	06/22/22 21:49	96-18-4	
1,2,4-Trimethylbenzene	**31.5J**	ug/kg	56.5	16.8	1	06/21/22 08:15	06/22/22 21:49	95-63-6	
1,3,5-Trimethylbenzene	**<18.2**	ug/kg	56.5	18.2	1	06/21/22 08:15	06/22/22 21:49	108-67-8	
Vinyl chloride	**<11.4**	ug/kg	56.5	11.4	1	06/21/22 08:15	06/22/22 21:49	75-01-4	
Xylene (Total)	**<40.8**	ug/kg	169	40.8	1	06/21/22 08:15	06/22/22 21:49	1330-20-7	
m&p-Xylene	**27.7J**	ug/kg	113	23.8	1	06/21/22 08:15	06/22/22 21:49	179601-23-1	
o-Xylene	**<16.9**	ug/kg	56.5	16.9	1	06/21/22 08:15	06/22/22 21:49	95-47-6	
Surrogates									
Toluene-d8 (S)	124	%	69-153		1	06/21/22 08:15	06/22/22 21:49	2037-26-5	
4-Bromofluorobenzene (S)	115	%	68-156		1	06/21/22 08:15	06/22/22 21:49	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	71-161		1	06/21/22 08:15	06/22/22 21:49	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**6.1**	%	0.10	0.10	1		06/20/22 11:06		

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-7_(1.5-3.5) **Lab ID: 40246796008** Collected: 06/14/22 11:30 Received: 06/17/22 14:05 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	52.4	15.9	1	06/21/22 11:52	06/22/22 17:52	12674-11-2	
PCB-1221 (Aroclor 1221)	**<15.9**	ug/kg	52.4	15.9	1	06/21/22 11:52	06/22/22 17:52	11104-28-2	
PCB-1232 (Aroclor 1232)	**<15.9**	ug/kg	52.4	15.9	1	06/21/22 11:52	06/22/22 17:52	11141-16-5	
PCB-1242 (Aroclor 1242)	**<15.9**	ug/kg	52.4	15.9	1	06/21/22 11:52	06/22/22 17:52	53469-21-9	
PCB-1248 (Aroclor 1248)	**<15.9**	ug/kg	52.4	15.9	1	06/21/22 11:52	06/22/22 17:52	12672-29-6	
PCB-1254 (Aroclor 1254)	**<15.9**	ug/kg	52.4	15.9	1	06/21/22 11:52	06/22/22 17:52	11097-69-1	
PCB-1260 (Aroclor 1260)	**<15.9**	ug/kg	52.4	15.9	1	06/21/22 11:52	06/22/22 17:52	11096-82-5	
PCB, Total	**<15.9**	ug/kg	52.4	15.9	1	06/21/22 11:52	06/22/22 17:52	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	73	%	50-99		1	06/21/22 11:52	06/22/22 17:52	877-09-8	
Decachlorobiphenyl (S)	64	%	38-95		1	06/21/22 11:52	06/22/22 17:52	2051-24-3	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Arsenic	**2.9**	mg/kg	2.5	1.5	1	06/21/22 06:58	06/21/22 20:16	7440-38-2	
Barium	**29.1**	mg/kg	0.51	0.15	1	06/21/22 06:58	06/21/22 20:16	7440-39-3	
Cadmium	**0.21J**	mg/kg	0.51	0.13	1	06/21/22 06:58	06/21/22 20:16	7440-43-9	
Chromium	**10.8**	mg/kg	1.0	0.28	1	06/21/22 06:58	06/21/22 20:16	7440-47-3	
Lead	**9.8**	mg/kg	2.0	0.61	1	06/21/22 06:58	06/21/22 20:16	7439-92-1	
Selenium	**<1.3**	mg/kg	4.1	1.3	1	06/21/22 06:58	06/21/22 20:16	7782-49-2	
Silver	**<0.31**	mg/kg	1.0	0.31	1	06/21/22 06:58	06/21/22 20:16	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.016J**	mg/kg	0.034	0.0098	1	06/24/22 08:09	06/27/22 08:04	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**6.3J**	ug/kg	34.9	4.5	2	06/23/22 07:45	06/23/22 14:49	83-32-9	
Acenaphthylene	**59.2**	ug/kg	34.9	4.4	2	06/23/22 07:45	06/23/22 14:49	208-96-8	
Anthracene	**80.5**	ug/kg	34.9	4.3	2	06/23/22 07:45	06/23/22 14:49	120-12-7	
Benzo(a)anthracene	**250**	ug/kg	34.9	4.5	2	06/23/22 07:45	06/23/22 14:49	56-55-3	
Benzo(a)pyrene	**237**	ug/kg	34.9	4.0	2	06/23/22 07:45	06/23/22 14:49	50-32-8	
Benzo(b)fluoranthene	**319**	ug/kg	34.9	4.8	2	06/23/22 07:45	06/23/22 14:49	205-99-2	
Benzo(g,h,i)perylene	**152**	ug/kg	34.9	6.1	2	06/23/22 07:45	06/23/22 14:49	191-24-2	
Benzo(k)fluoranthene	**149**	ug/kg	34.9	4.5	2	06/23/22 07:45	06/23/22 14:49	207-08-9	
Chrysene	**289**	ug/kg	34.9	6.6	2	06/23/22 07:45	06/23/22 14:49	218-01-9	
Dibenz(a,h)anthracene	**40.6**	ug/kg	34.9	4.8	2	06/23/22 07:45	06/23/22 14:49	53-70-3	
Fluoranthene	**593**	ug/kg	34.9	4.1	2	06/23/22 07:45	06/23/22 14:49	206-44-0	
Fluorene	**13.4J**	ug/kg	34.9	4.2	2	06/23/22 07:45	06/23/22 14:49	86-73-7	
Indeno(1,2,3-cd)pyrene	**131**	ug/kg	34.9	7.3	2	06/23/22 07:45	06/23/22 14:49	193-39-5	
1-Methylnaphthalene	**16.7J**	ug/kg	34.9	5.1	2	06/23/22 07:45	06/23/22 14:49	90-12-0	
2-Methylnaphthalene	**24.3J**	ug/kg	34.9	5.1	2	06/23/22 07:45	06/23/22 14:49	91-57-6	
Naphthalene	**46.9**	ug/kg	34.9	3.4	2	06/23/22 07:45	06/23/22 14:49	91-20-3	

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-7_(1.5-3.5) **Lab ID: 40246796008** Collected: 06/14/22 11:30 Received: 06/17/22 14:05 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	**171**	ug/kg	34.9	4.0	2	06/23/22 07:45	06/23/22 14:49	85-01-8	
Pyrene	**438**	ug/kg	34.9	5.1	2	06/23/22 07:45	06/23/22 14:49	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	42	%	41-98		2	06/23/22 07:45	06/23/22 14:49	321-60-8	
Terphenyl-d14 (S)	47	%	37-106		2	06/23/22 07:45	06/23/22 14:49	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	21.8	13.0	1	06/21/22 08:15	06/22/22 22:09	71-43-2	
Bromobenzene	**<21.3**	ug/kg	54.6	21.3	1	06/21/22 08:15	06/22/22 22:09	108-86-1	
Bromochloromethane	**<15.0**	ug/kg	54.6	15.0	1	06/21/22 08:15	06/22/22 22:09	74-97-5	
Bromodichloromethane	**<13.0**	ug/kg	54.6	13.0	1	06/21/22 08:15	06/22/22 22:09	75-27-4	
Bromoform	**<240**	ug/kg	273	240	1	06/21/22 08:15	06/22/22 22:09	75-25-2	
Bromomethane	**<76.5**	ug/kg	273	76.5	1	06/21/22 08:15	06/22/22 22:09	74-83-9	
n-Butylbenzene	**<25.0**	ug/kg	54.6	25.0	1	06/21/22 08:15	06/22/22 22:09	104-51-8	
sec-Butylbenzene	**<13.3**	ug/kg	54.6	13.3	1	06/21/22 08:15	06/22/22 22:09	135-98-8	
tert-Butylbenzene	**<17.1**	ug/kg	54.6	17.1	1	06/21/22 08:15	06/22/22 22:09	98-06-6	
Carbon tetrachloride	**<12.0**	ug/kg	54.6	12.0	1	06/21/22 08:15	06/22/22 22:09	56-23-5	
Chlorobenzene	**<6.5**	ug/kg	54.6	6.5	1	06/21/22 08:15	06/22/22 22:09	108-90-7	
Chloroethane	**<23.0**	ug/kg	273	23.0	1	06/21/22 08:15	06/22/22 22:09	75-00-3	
Chloroform	**<39.1**	ug/kg	273	39.1	1	06/21/22 08:15	06/22/22 22:09	67-66-3	
Chloromethane	**<20.7**	ug/kg	54.6	20.7	1	06/21/22 08:15	06/22/22 22:09	74-87-3	
2-Chlorotoluene	**<17.7**	ug/kg	54.6	17.7	1	06/21/22 08:15	06/22/22 22:09	95-49-8	
4-Chlorotoluene	**<20.7**	ug/kg	54.6	20.7	1	06/21/22 08:15	06/22/22 22:09	106-43-4	
1,2-Dibromo-3-chloropropane	**<42.3**	ug/kg	273	42.3	1	06/21/22 08:15	06/22/22 22:09	96-12-8	
Dibromochloromethane	**<187**	ug/kg	273	187	1	06/21/22 08:15	06/22/22 22:09	124-48-1	
1,2-Dibromoethane (EDB)	**<15.0**	ug/kg	54.6	15.0	1	06/21/22 08:15	06/22/22 22:09	106-93-4	
Dibromomethane	**<16.2**	ug/kg	54.6	16.2	1	06/21/22 08:15	06/22/22 22:09	74-95-3	
1,2-Dichlorobenzene	**<16.9**	ug/kg	54.6	16.9	1	06/21/22 08:15	06/22/22 22:09	95-50-1	
1,3-Dichlorobenzene	**<15.0**	ug/kg	54.6	15.0	1	06/21/22 08:15	06/22/22 22:09	541-73-1	
1,4-Dichlorobenzene	**<15.0**	ug/kg	54.6	15.0	1	06/21/22 08:15	06/22/22 22:09	106-46-7	
Dichlorodifluoromethane	**<23.5**	ug/kg	54.6	23.5	1	06/21/22 08:15	06/22/22 22:09	75-71-8	
1,1-Dichloroethane	**<14.0**	ug/kg	54.6	14.0	1	06/21/22 08:15	06/22/22 22:09	75-34-3	
1,2-Dichloroethane	**<12.6**	ug/kg	54.6	12.6	1	06/21/22 08:15	06/22/22 22:09	107-06-2	
1,1-Dichloroethene	**<18.1**	ug/kg	54.6	18.1	1	06/21/22 08:15	06/22/22 22:09	75-35-4	
cis-1,2-Dichloroethene	**<11.7**	ug/kg	54.6	11.7	1	06/21/22 08:15	06/22/22 22:09	156-59-2	
trans-1,2-Dichloroethene	**<11.8**	ug/kg	54.6	11.8	1	06/21/22 08:15	06/22/22 22:09	156-60-5	
1,2-Dichloropropane	**<13.0**	ug/kg	54.6	13.0	1	06/21/22 08:15	06/22/22 22:09	78-87-5	
1,3-Dichloropropane	**<11.9**	ug/kg	54.6	11.9	1	06/21/22 08:15	06/22/22 22:09	142-28-9	
2,2-Dichloropropane	**<14.7**	ug/kg	54.6	14.7	1	06/21/22 08:15	06/22/22 22:09	594-20-7	
1,1-Dichloropropene	**<17.7**	ug/kg	54.6	17.7	1	06/21/22 08:15	06/22/22 22:09	563-58-6	
cis-1,3-Dichloropropene	**<36.0**	ug/kg	273	36.0	1	06/21/22 08:15	06/22/22 22:09	10061-01-5	
trans-1,3-Dichloropropene	**<156**	ug/kg	273	156	1	06/21/22 08:15	06/22/22 22:09	10061-02-6	
Diisopropyl ether	**<13.5**	ug/kg	54.6	13.5	1	06/21/22 08:15	06/22/22 22:09	108-20-3	

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(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-7_(1.5-3.5) **Lab ID: 40246796008** Collected: 06/14/22 11:30 Received: 06/17/22 14:05 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	**<13.0**	ug/kg	54.6	13.0	1	06/21/22 08:15	06/22/22 22:09	100-41-4	
Hexachloro-1,3-butadiene	**<108**	ug/kg	273	108	1	06/21/22 08:15	06/22/22 22:09	87-68-3	
Isopropylbenzene (Cumene)	**<14.7**	ug/kg	54.6	14.7	1	06/21/22 08:15	06/22/22 22:09	98-82-8	
p-Isopropyltoluene	**218**	ug/kg	54.6	16.6	1	06/21/22 08:15	06/22/22 22:09	99-87-6	
Methylene Chloride	**<15.2**	ug/kg	54.6	15.2	1	06/21/22 08:15	06/22/22 22:09	75-09-2	
Methyl-tert-butyl ether	**<16.0**	ug/kg	54.6	16.0	1	06/21/22 08:15	06/22/22 22:09	1634-04-4	
Naphthalene	**40.1J**	ug/kg	273	17.0	1	06/21/22 08:15	06/22/22 22:09	91-20-3	
n-Propylbenzene	**<13.1**	ug/kg	54.6	13.1	1	06/21/22 08:15	06/22/22 22:09	103-65-1	
Styrene	**<14.0**	ug/kg	54.6	14.0	1	06/21/22 08:15	06/22/22 22:09	100-42-5	
1,1,1,2-Tetrachloroethane	**<13.1**	ug/kg	54.6	13.1	1	06/21/22 08:15	06/22/22 22:09	630-20-6	
1,1,2,2-Tetrachloroethane	**<19.8**	ug/kg	54.6	19.8	1	06/21/22 08:15	06/22/22 22:09	79-34-5	
Tetrachloroethene	**<21.2**	ug/kg	54.6	21.2	1	06/21/22 08:15	06/22/22 22:09	127-18-4	
Toluene	**44.8J**	ug/kg	54.6	13.8	1	06/21/22 08:15	06/22/22 22:09	108-88-3	
1,2,3-Trichlorobenzene	**<60.8**	ug/kg	273	60.8	1	06/21/22 08:15	06/22/22 22:09	87-61-6	
1,2,4-Trichlorobenzene	**<45.0**	ug/kg	273	45.0	1	06/21/22 08:15	06/22/22 22:09	120-82-1	
1,1,1-Trichloroethane	**<14.0**	ug/kg	54.6	14.0	1	06/21/22 08:15	06/22/22 22:09	71-55-6	
1,1,2-Trichloroethane	**<19.9**	ug/kg	54.6	19.9	1	06/21/22 08:15	06/22/22 22:09	79-00-5	
Trichloroethene	**<20.4**	ug/kg	54.6	20.4	1	06/21/22 08:15	06/22/22 22:09	79-01-6	
Trichlorofluoromethane	**<15.8**	ug/kg	54.6	15.8	1	06/21/22 08:15	06/22/22 22:09	75-69-4	
1,2,3-Trichloropropane	**<26.5**	ug/kg	54.6	26.5	1	06/21/22 08:15	06/22/22 22:09	96-18-4	
1,2,4-Trimethylbenzene	**22.7J**	ug/kg	54.6	16.3	1	06/21/22 08:15	06/22/22 22:09	95-63-6	
1,3,5-Trimethylbenzene	**<17.6**	ug/kg	54.6	17.6	1	06/21/22 08:15	06/22/22 22:09	108-67-8	
Vinyl chloride	**<11.0**	ug/kg	54.6	11.0	1	06/21/22 08:15	06/22/22 22:09	75-01-4	
Xylene (Total)	**64.2J**	ug/kg	164	39.4	1	06/21/22 08:15	06/22/22 22:09	1330-20-7	
m&p-Xylene	**45.4J**	ug/kg	109	23.0	1	06/21/22 08:15	06/22/22 22:09	179601-23-1	
o-Xylene	**18.8J**	ug/kg	54.6	16.4	1	06/21/22 08:15	06/22/22 22:09	95-47-6	
Surrogates									
Toluene-d8 (S)	122	%	69-153		1	06/21/22 08:15	06/22/22 22:09	2037-26-5	
4-Bromofluorobenzene (S)	107	%	68-156		1	06/21/22 08:15	06/22/22 22:09	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	71-161		1	06/21/22 08:15	06/22/22 22:09	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**4.4**	%	0.10	0.10	1		06/20/22 11:06		

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-11_(1.5-3.5) **Lab ID: 40246796009** Collected: 06/14/22 12:10 Received: 06/17/22 14:05 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)	**<17.0**	ug/kg	56.0	17.0	1	06/21/22 11:52	06/22/22 18:16	12674-11-2	
PCB-1221 (Aroclor 1221)	**<17.0**	ug/kg	56.0	17.0	1	06/21/22 11:52	06/22/22 18:16	11104-28-2	
PCB-1232 (Aroclor 1232)	**<17.0**	ug/kg	56.0	17.0	1	06/21/22 11:52	06/22/22 18:16	11141-16-5	
PCB-1242 (Aroclor 1242)	**<17.0**	ug/kg	56.0	17.0	1	06/21/22 11:52	06/22/22 18:16	53469-21-9	
PCB-1248 (Aroclor 1248)	**<17.0**	ug/kg	56.0	17.0	1	06/21/22 11:52	06/22/22 18:16	12672-29-6	
PCB-1254 (Aroclor 1254)	**18.2J**	ug/kg	56.0	17.0	1	06/21/22 11:52	06/22/22 18:16	11097-69-1	
PCB-1260 (Aroclor 1260)	**32.4J**	ug/kg	56.0	17.0	1	06/21/22 11:52	06/22/22 18:16	11096-82-5	
PCB, Total	**50.7J**	ug/kg	56.0	17.0	1	06/21/22 11:52	06/22/22 18:16	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	75	%	50-99		1	06/21/22 11:52	06/22/22 18:16	877-09-8	
Decachlorobiphenyl (S)	54	%	38-95		1	06/21/22 11:52	06/22/22 18:16	2051-24-3	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Arsenic	**3.1**	mg/kg	2.7	1.6	1	06/21/22 06:58	06/21/22 20:19	7440-38-2	
Barium	**27.3**	mg/kg	0.54	0.16	1	06/21/22 06:58	06/21/22 20:19	7440-39-3	
Cadmium	**1.1**	mg/kg	0.54	0.14	1	06/21/22 06:58	06/21/22 20:19	7440-43-9	
Chromium	**11.1**	mg/kg	1.1	0.30	1	06/21/22 06:58	06/21/22 20:19	7440-47-3	
Lead	**42.2**	mg/kg	2.2	0.65	1	06/21/22 06:58	06/21/22 20:19	7439-92-1	
Selenium	**<1.4**	mg/kg	4.3	1.4	1	06/21/22 06:58	06/21/22 20:19	7782-49-2	
Silver	**<0.33**	mg/kg	1.1	0.33	1	06/21/22 06:58	06/21/22 20:19	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.030J**	mg/kg	0.039	0.011	1	06/24/22 08:09	06/27/22 08:07	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**16.2J**	ug/kg	37.5	4.9	2	06/23/22 07:45	06/23/22 15:06	83-32-9	
Acenaphthylene	**85.0**	ug/kg	37.5	4.7	2	06/23/22 07:45	06/23/22 15:06	208-96-8	
Anthracene	**83.7**	ug/kg	37.5	4.7	2	06/23/22 07:45	06/23/22 15:06	120-12-7	
Benzo(a)anthracene	**403**	ug/kg	37.5	4.8	2	06/23/22 07:45	06/23/22 15:06	56-55-3	
Benzo(a)pyrene	**374**	ug/kg	37.5	4.3	2	06/23/22 07:45	06/23/22 15:06	50-32-8	
Benzo(b)fluoranthene	**430**	ug/kg	37.5	5.2	2	06/23/22 07:45	06/23/22 15:06	205-99-2	
Benzo(g,h,i)perylene	**194**	ug/kg	37.5	6.6	2	06/23/22 07:45	06/23/22 15:06	191-24-2	
Benzo(k)fluoranthene	**157**	ug/kg	37.5	4.8	2	06/23/22 07:45	06/23/22 15:06	207-08-9	
Chrysene	**395**	ug/kg	37.5	7.1	2	06/23/22 07:45	06/23/22 15:06	218-01-9	
Dibenz(a,h)anthracene	**60.1**	ug/kg	37.5	5.2	2	06/23/22 07:45	06/23/22 15:06	53-70-3	
Fluoranthene	**573**	ug/kg	37.5	4.4	2	06/23/22 07:45	06/23/22 15:06	206-44-0	
Fluorene	**32.8J**	ug/kg	37.5	4.5	2	06/23/22 07:45	06/23/22 15:06	86-73-7	
Indeno(1,2,3-cd)pyrene	**147**	ug/kg	37.5	7.8	2	06/23/22 07:45	06/23/22 15:06	193-39-5	
1-Methylnaphthalene	**18.6J**	ug/kg	37.5	5.5	2	06/23/22 07:45	06/23/22 15:06	90-12-0	
2-Methylnaphthalene	**28.9J**	ug/kg	37.5	5.5	2	06/23/22 07:45	06/23/22 15:06	91-57-6	
Naphthalene	**34.9J**	ug/kg	37.5	3.7	2	06/23/22 07:45	06/23/22 15:06	91-20-3	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-11_(1.5-3.5) **Lab ID: 40246796009** Collected: 06/14/22 12:10 Received: 06/17/22 14:05 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	**196**	ug/kg	37.5	4.3	2	06/23/22 07:45	06/23/22 15:06	85-01-8	
Pyrene	**668**	ug/kg	37.5	5.5	2	06/23/22 07:45	06/23/22 15:06	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	55	%	41-98		2	06/23/22 07:45	06/23/22 15:06	321-60-8	
Terphenyl-d14 (S)	61	%	37-106		2	06/23/22 07:45	06/23/22 15:06	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Benzene	**<14.8**	ug/kg	24.9	14.8	1	06/21/22 08:15	06/22/22 22:28	71-43-2	
Bromobenzene	**<24.3**	ug/kg	62.3	24.3	1	06/21/22 08:15	06/22/22 22:28	108-86-1	
Bromochloromethane	**<17.1**	ug/kg	62.3	17.1	1	06/21/22 08:15	06/22/22 22:28	74-97-5	
Bromodichloromethane	**<14.8**	ug/kg	62.3	14.8	1	06/21/22 08:15	06/22/22 22:28	75-27-4	
Bromoform	**<274**	ug/kg	312	274	1	06/21/22 08:15	06/22/22 22:28	75-25-2	
Bromomethane	**<87.4**	ug/kg	312	87.4	1	06/21/22 08:15	06/22/22 22:28	74-83-9	
n-Butylbenzene	**<28.5**	ug/kg	62.3	28.5	1	06/21/22 08:15	06/22/22 22:28	104-51-8	
sec-Butylbenzene	**<15.2**	ug/kg	62.3	15.2	1	06/21/22 08:15	06/22/22 22:28	135-98-8	
tert-Butylbenzene	**<19.6**	ug/kg	62.3	19.6	1	06/21/22 08:15	06/22/22 22:28	98-06-6	
Carbon tetrachloride	**<13.7**	ug/kg	62.3	13.7	1	06/21/22 08:15	06/22/22 22:28	56-23-5	
Chlorobenzene	**<7.5**	ug/kg	62.3	7.5	1	06/21/22 08:15	06/22/22 22:28	108-90-7	
Chloroethane	**<26.3**	ug/kg	312	26.3	1	06/21/22 08:15	06/22/22 22:28	75-00-3	
Chloroform	**<44.6**	ug/kg	312	44.6	1	06/21/22 08:15	06/22/22 22:28	67-66-3	
Chloromethane	**<23.7**	ug/kg	62.3	23.7	1	06/21/22 08:15	06/22/22 22:28	74-87-3	
2-Chlorotoluene	**<20.2**	ug/kg	62.3	20.2	1	06/21/22 08:15	06/22/22 22:28	95-49-8	
4-Chlorotoluene	**<23.7**	ug/kg	62.3	23.7	1	06/21/22 08:15	06/22/22 22:28	106-43-4	
1,2-Dibromo-3-chloropropane	**<48.4**	ug/kg	312	48.4	1	06/21/22 08:15	06/22/22 22:28	96-12-8	
Dibromochloromethane	**<213**	ug/kg	312	213	1	06/21/22 08:15	06/22/22 22:28	124-48-1	
1,2-Dibromoethane (EDB)	**<17.1**	ug/kg	62.3	17.1	1	06/21/22 08:15	06/22/22 22:28	106-93-4	
Dibromomethane	**<18.4**	ug/kg	62.3	18.4	1	06/21/22 08:15	06/22/22 22:28	74-95-3	
1,2-Dichlorobenzene	**<19.3**	ug/kg	62.3	19.3	1	06/21/22 08:15	06/22/22 22:28	95-50-1	
1,3-Dichlorobenzene	**<17.1**	ug/kg	62.3	17.1	1	06/21/22 08:15	06/22/22 22:28	541-73-1	
1,4-Dichlorobenzene	**<17.1**	ug/kg	62.3	17.1	1	06/21/22 08:15	06/22/22 22:28	106-46-7	
Dichlorodifluoromethane	**<26.8**	ug/kg	62.3	26.8	1	06/21/22 08:15	06/22/22 22:28	75-71-8	
1,1-Dichloroethane	**<16.0**	ug/kg	62.3	16.0	1	06/21/22 08:15	06/22/22 22:28	75-34-3	
1,2-Dichloroethane	**<14.3**	ug/kg	62.3	14.3	1	06/21/22 08:15	06/22/22 22:28	107-06-2	
1,1-Dichloroethene	**<20.7**	ug/kg	62.3	20.7	1	06/21/22 08:15	06/22/22 22:28	75-35-4	
cis-1,2-Dichloroethene	**<13.3**	ug/kg	62.3	13.3	1	06/21/22 08:15	06/22/22 22:28	156-59-2	
trans-1,2-Dichloroethene	**<13.5**	ug/kg	62.3	13.5	1	06/21/22 08:15	06/22/22 22:28	156-60-5	
1,2-Dichloropropane	**<14.8**	ug/kg	62.3	14.8	1	06/21/22 08:15	06/22/22 22:28	78-87-5	
1,3-Dichloropropane	**<13.6**	ug/kg	62.3	13.6	1	06/21/22 08:15	06/22/22 22:28	142-28-9	
2,2-Dichloropropane	**<16.8**	ug/kg	62.3	16.8	1	06/21/22 08:15	06/22/22 22:28	594-20-7	
1,1-Dichloropropene	**<20.2**	ug/kg	62.3	20.2	1	06/21/22 08:15	06/22/22 22:28	563-58-6	
cis-1,3-Dichloropropene	**<41.1**	ug/kg	312	41.1	1	06/21/22 08:15	06/22/22 22:28	10061-01-5	
trans-1,3-Dichloropropene	**<178**	ug/kg	312	178	1	06/21/22 08:15	06/22/22 22:28	10061-02-6	
Diisopropyl ether	**<15.5**	ug/kg	62.3	15.5	1	06/21/22 08:15	06/22/22 22:28	108-20-3	

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-11_(1.5-3.5) **Lab ID: 40246796009** Collected: 06/14/22 12:10 Received: 06/17/22 14:05 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	**<14.8**	ug/kg	62.3	14.8	1	06/21/22 08:15	06/22/22 22:28	100-41-4	
Hexachloro-1,3-butadiene	**<124**	ug/kg	312	124	1	06/21/22 08:15	06/22/22 22:28	87-68-3	
Isopropylbenzene (Cumene)	**<16.8**	ug/kg	62.3	16.8	1	06/21/22 08:15	06/22/22 22:28	98-82-8	
p-Isopropyltoluene	**23.5J**	ug/kg	62.3	18.9	1	06/21/22 08:15	06/22/22 22:28	99-87-6	
Methylene Chloride	**<17.3**	ug/kg	62.3	17.3	1	06/21/22 08:15	06/22/22 22:28	75-09-2	
Methyl-tert-butyl ether	**<18.3**	ug/kg	62.3	18.3	1	06/21/22 08:15	06/22/22 22:28	1634-04-4	
Naphthalene	**56.0J**	ug/kg	312	19.4	1	06/21/22 08:15	06/22/22 22:28	91-20-3	
n-Propylbenzene	**<15.0**	ug/kg	62.3	15.0	1	06/21/22 08:15	06/22/22 22:28	103-65-1	
Styrene	**<16.0**	ug/kg	62.3	16.0	1	06/21/22 08:15	06/22/22 22:28	100-42-5	
1,1,1,2-Tetrachloroethane	**<15.0**	ug/kg	62.3	15.0	1	06/21/22 08:15	06/22/22 22:28	630-20-6	
1,1,2,2-Tetrachloroethane	**<22.6**	ug/kg	62.3	22.6	1	06/21/22 08:15	06/22/22 22:28	79-34-5	
Tetrachloroethene	**<24.2**	ug/kg	62.3	24.2	1	06/21/22 08:15	06/22/22 22:28	127-18-4	
Toluene	**22.4J**	ug/kg	62.3	15.7	1	06/21/22 08:15	06/22/22 22:28	108-88-3	
1,2,3-Trichlorobenzene	**<69.4**	ug/kg	312	69.4	1	06/21/22 08:15	06/22/22 22:28	87-61-6	
1,2,4-Trichlorobenzene	**<51.3**	ug/kg	312	51.3	1	06/21/22 08:15	06/22/22 22:28	120-82-1	
1,1,1-Trichloroethane	**<16.0**	ug/kg	62.3	16.0	1	06/21/22 08:15	06/22/22 22:28	71-55-6	
1,1,2-Trichloroethane	**<22.7**	ug/kg	62.3	22.7	1	06/21/22 08:15	06/22/22 22:28	79-00-5	
Trichloroethene	**<23.3**	ug/kg	62.3	23.3	1	06/21/22 08:15	06/22/22 22:28	79-01-6	
Trichlorofluoromethane	**<18.1**	ug/kg	62.3	18.1	1	06/21/22 08:15	06/22/22 22:28	75-69-4	
1,2,3-Trichloropropane	**<30.3**	ug/kg	62.3	30.3	1	06/21/22 08:15	06/22/22 22:28	96-18-4	
1,2,4-Trimethylbenzene	**<18.6**	ug/kg	62.3	18.6	1	06/21/22 08:15	06/22/22 22:28	95-63-6	
1,3,5-Trimethylbenzene	**<20.1**	ug/kg	62.3	20.1	1	06/21/22 08:15	06/22/22 22:28	108-67-8	
Vinyl chloride	**<12.6**	ug/kg	62.3	12.6	1	06/21/22 08:15	06/22/22 22:28	75-01-4	
Xylene (Total)	**<45.0**	ug/kg	187	45.0	1	06/21/22 08:15	06/22/22 22:28	1330-20-7	
m&p-Xylene	**<26.3**	ug/kg	125	26.3	1	06/21/22 08:15	06/22/22 22:28	179601-23-1	
o-Xylene	**<18.7**	ug/kg	62.3	18.7	1	06/21/22 08:15	06/22/22 22:28	95-47-6	
Surrogates									
Toluene-d8 (S)	128	%	69-153		1	06/21/22 08:15	06/22/22 22:28	2037-26-5	
4-Bromofluorobenzene (S)	118	%	68-156		1	06/21/22 08:15	06/22/22 22:28	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	71-161		1	06/21/22 08:15	06/22/22 22:28	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**11.0**	%	0.10	0.10	1		06/20/22 11:06		

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-6_(1.5-3.5) **Lab ID: 40246796010** Collected: 06/14/22 12:40 Received: 06/17/22 14:05 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)	**<16.8**	ug/kg	55.3	16.8	1	06/23/22 05:20	06/23/22 13:07	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.8**	ug/kg	55.3	16.8	1	06/23/22 05:20	06/23/22 13:07	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.8**	ug/kg	55.3	16.8	1	06/23/22 05:20	06/23/22 13:07	11141-16-5	
PCB-1242 (Aroclor 1242)	**188**	ug/kg	55.3	16.8	1	06/23/22 05:20	06/23/22 13:07	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.8**	ug/kg	55.3	16.8	1	06/23/22 05:20	06/23/22 13:07	12672-29-6	
PCB-1254 (Aroclor 1254)	**143**	ug/kg	55.3	16.8	1	06/23/22 05:20	06/23/22 13:07	11097-69-1	
PCB-1260 (Aroclor 1260)	**43.9J**	ug/kg	55.3	16.8	1	06/23/22 05:20	06/23/22 13:07	11096-82-5	
PCB, Total	**374**	ug/kg	55.3	16.8	1	06/23/22 05:20	06/23/22 13:07	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	76	%	50-99		1	06/23/22 05:20	06/23/22 13:07	877-09-8	
Decachlorobiphenyl (S)	68	%	38-95		1	06/23/22 05:20	06/23/22 13:07	2051-24-3	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Arsenic	**19.3**	mg/kg	2.6	1.5	1	06/21/22 06:58	06/21/22 20:21	7440-38-2	
Barium	**81.6**	mg/kg	0.51	0.15	1	06/21/22 06:58	06/21/22 20:21	7440-39-3	
Cadmium	**2.5**	mg/kg	0.51	0.14	1	06/21/22 06:58	06/21/22 20:21	7440-43-9	
Chromium	**32.4**	mg/kg	1.0	0.29	1	06/21/22 06:58	06/21/22 20:21	7440-47-3	
Lead	**132**	mg/kg	2.1	0.61	1	06/21/22 06:58	06/21/22 20:21	7439-92-1	
Selenium	**<1.3**	mg/kg	4.1	1.3	1	06/21/22 06:58	06/21/22 20:21	7782-49-2	
Silver	**1.4**	mg/kg	1.0	0.31	1	06/21/22 06:58	06/21/22 20:21	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.096**	mg/kg	0.034	0.0098	1	06/24/22 08:09	06/27/22 08:09	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**126**	ug/kg	36.9	4.8	2	06/27/22 07:57	06/27/22 13:55	83-32-9	
Acenaphthylene	**26.6J**	ug/kg	36.9	4.6	2	06/27/22 07:57	06/27/22 13:55	208-96-8	
Anthracene	**32.1J**	ug/kg	36.9	4.6	2	06/27/22 07:57	06/27/22 13:55	120-12-7	
Benzo(a)anthracene	**32.1J**	ug/kg	36.9	4.8	2	06/27/22 07:57	06/27/22 13:55	56-55-3	B
Benzo(a)pyrene	**68.3**	ug/kg	36.9	4.2	2	06/27/22 07:57	06/27/22 13:55	50-32-8	
Benzo(b)fluoranthene	**38.9**	ug/kg	36.9	5.1	2	06/27/22 07:57	06/27/22 13:55	205-99-2	B
Benzo(g,h,i)perylene	**65.4**	ug/kg	36.9	6.5	2	06/27/22 07:57	06/27/22 13:55	191-24-2	B
Benzo(k)fluoranthene	**83.9**	ug/kg	36.9	4.7	2	06/27/22 07:57	06/27/22 13:55	207-08-9	B
Chrysene	**248**	ug/kg	36.9	7.0	2	06/27/22 07:57	06/27/22 13:55	218-01-9	
Dibenz(a,h)anthracene	**16.3J**	ug/kg	36.9	5.1	2	06/27/22 07:57	06/27/22 13:55	53-70-3	B
Fluoranthene	**98.3**	ug/kg	36.9	4.4	2	06/27/22 07:57	06/27/22 13:55	206-44-0	
Fluorene	**88.4**	ug/kg	36.9	4.4	2	06/27/22 07:57	06/27/22 13:55	86-73-7	
Indeno(1,2,3-cd)pyrene	**39.3**	ug/kg	36.9	7.7	2	06/27/22 07:57	06/27/22 13:55	193-39-5	B
1-Methylnaphthalene	**527**	ug/kg	36.9	5.4	2	06/27/22 07:57	06/27/22 13:55	90-12-0	
2-Methylnaphthalene	**230**	ug/kg	36.9	5.4	2	06/27/22 07:57	06/27/22 13:55	91-57-6	
Naphthalene	**263**	ug/kg	36.9	3.6	2	06/27/22 07:57	06/27/22 13:55	91-20-3	L2

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-6_(1.5-3.5) **Lab ID: 40246796010** Collected: 06/14/22 12:40 Received: 06/17/22 14:05 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	**165**	ug/kg	36.9	4.2	2	06/27/22 07:57	06/27/22 13:55	85-01-8	
Pyrene	**176**	ug/kg	36.9	5.4	2	06/27/22 07:57	06/27/22 13:55	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	50	%	41-98		2	06/27/22 07:57	06/27/22 13:55	321-60-8	
Terphenyl-d14 (S)	74	%	37-106		2	06/27/22 07:57	06/27/22 13:55	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Benzene	**22.6J**	ug/kg	24.2	14.4	1	06/21/22 08:15	06/24/22 10:47	71-43-2	
Bromobenzene	**<23.6**	ug/kg	60.5	23.6	1	06/21/22 08:15	06/24/22 10:47	108-86-1	
Bromochloromethane	**<16.6**	ug/kg	60.5	16.6	1	06/21/22 08:15	06/24/22 10:47	74-97-5	
Bromodichloromethane	**<14.4**	ug/kg	60.5	14.4	1	06/21/22 08:15	06/24/22 10:47	75-27-4	
Bromoform	**<266**	ug/kg	303	266	1	06/21/22 08:15	06/24/22 10:47	75-25-2	
Bromomethane	**<84.9**	ug/kg	303	84.9	1	06/21/22 08:15	06/24/22 10:47	74-83-9	
n-Butylbenzene	**118**	ug/kg	60.5	27.7	1	06/21/22 08:15	06/23/22 00:45	104-51-8	
sec-Butylbenzene	**32.6J**	ug/kg	60.5	14.8	1	06/21/22 08:15	06/24/22 10:47	135-98-8	
tert-Butylbenzene	**<19.0**	ug/kg	60.5	19.0	1	06/21/22 08:15	06/24/22 10:47	98-06-6	
Carbon tetrachloride	**<13.3**	ug/kg	60.5	13.3	1	06/21/22 08:15	06/24/22 10:47	56-23-5	
Chlorobenzene	**<7.3**	ug/kg	60.5	7.3	1	06/21/22 08:15	06/24/22 10:47	108-90-7	
Chloroethane	**<25.5**	ug/kg	303	25.5	1	06/21/22 08:15	06/24/22 10:47	75-00-3	
Chloroform	**<43.3**	ug/kg	303	43.3	1	06/21/22 08:15	06/24/22 10:47	67-66-3	
Chloromethane	**<23.0**	ug/kg	60.5	23.0	1	06/21/22 08:15	06/24/22 10:47	74-87-3	
2-Chlorotoluene	**<19.6**	ug/kg	60.5	19.6	1	06/21/22 08:15	06/24/22 10:47	95-49-8	
4-Chlorotoluene	**<23.0**	ug/kg	60.5	23.0	1	06/21/22 08:15	06/24/22 10:47	106-43-4	
1,2-Dibromo-3-chloropropane	**<47.0**	ug/kg	303	47.0	1	06/21/22 08:15	06/24/22 10:47	96-12-8	
Dibromochloromethane	**<207**	ug/kg	303	207	1	06/21/22 08:15	06/24/22 10:47	124-48-1	
1,2-Dibromoethane (EDB)	**<16.6**	ug/kg	60.5	16.6	1	06/21/22 08:15	06/24/22 10:47	106-93-4	
Dibromomethane	**<17.9**	ug/kg	60.5	17.9	1	06/21/22 08:15	06/24/22 10:47	74-95-3	
1,2-Dichlorobenzene	**<18.8**	ug/kg	60.5	18.8	1	06/21/22 08:15	06/24/22 10:47	95-50-1	
1,3-Dichlorobenzene	**<16.6**	ug/kg	60.5	16.6	1	06/21/22 08:15	06/24/22 10:47	541-73-1	
1,4-Dichlorobenzene	**356**	ug/kg	60.5	16.6	1	06/21/22 08:15	06/24/22 10:47	106-46-7	
Dichlorodifluoromethane	**<26.0**	ug/kg	60.5	26.0	1	06/21/22 08:15	06/24/22 10:47	75-71-8	
1,1-Dichloroethane	**<15.5**	ug/kg	60.5	15.5	1	06/21/22 08:15	06/24/22 10:47	75-34-3	
1,2-Dichloroethane	**<13.9**	ug/kg	60.5	13.9	1	06/21/22 08:15	06/24/22 10:47	107-06-2	
1,1-Dichloroethene	**<20.1**	ug/kg	60.5	20.1	1	06/21/22 08:15	06/24/22 10:47	75-35-4	
cis-1,2-Dichloroethene	**22.7J**	ug/kg	60.5	13.0	1	06/21/22 08:15	06/24/22 10:47	156-59-2	
trans-1,2-Dichloroethene	**<13.1**	ug/kg	60.5	13.1	1	06/21/22 08:15	06/24/22 10:47	156-60-5	
1,2-Dichloropropane	**<14.4**	ug/kg	60.5	14.4	1	06/21/22 08:15	06/24/22 10:47	78-87-5	
1,3-Dichloropropane	**<13.2**	ug/kg	60.5	13.2	1	06/21/22 08:15	06/24/22 10:47	142-28-9	
2,2-Dichloropropane	**<16.3**	ug/kg	60.5	16.3	1	06/21/22 08:15	06/24/22 10:47	594-20-7	
1,1-Dichloropropene	**<19.6**	ug/kg	60.5	19.6	1	06/21/22 08:15	06/24/22 10:47	563-58-6	
cis-1,3-Dichloropropene	**<39.9**	ug/kg	303	39.9	1	06/21/22 08:15	06/24/22 10:47	10061-01-5	
trans-1,3-Dichloropropene	**<173**	ug/kg	303	173	1	06/21/22 08:15	06/24/22 10:47	10061-02-6	
Diisopropyl ether	**<15.0**	ug/kg	60.5	15.0	1	06/21/22 08:15	06/24/22 10:47	108-20-3	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-6_(1.5-3.5) **Lab ID: 40246796010** Collected: 06/14/22 12:40 Received: 06/17/22 14:05 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	**38.2J**	ug/kg	60.5	14.4	1	06/21/22 08:15	06/24/22 10:47	100-41-4	
Hexachloro-1,3-butadiene	**<120**	ug/kg	303	120	1	06/21/22 08:15	06/24/22 10:47	87-68-3	
Isopropylbenzene (Cumene)	**<16.3**	ug/kg	60.5	16.3	1	06/21/22 08:15	06/24/22 10:47	98-82-8	
p-Isopropyltoluene	**<18.4**	ug/kg	60.5	18.4	1	06/21/22 08:15	06/24/22 10:47	99-87-6	
Methylene Chloride	**<16.8**	ug/kg	60.5	16.8	1	06/21/22 08:15	06/24/22 10:47	75-09-2	
Methyl-tert-butyl ether	**<17.8**	ug/kg	60.5	17.8	1	06/21/22 08:15	06/24/22 10:47	1634-04-4	
Naphthalene	**112J**	ug/kg	303	18.9	1	06/21/22 08:15	06/24/22 10:47	91-20-3	
n-Propylbenzene	**33.4J**	ug/kg	60.5	14.5	1	06/21/22 08:15	06/24/22 10:47	103-65-1	
Styrene	**<15.5**	ug/kg	60.5	15.5	1	06/21/22 08:15	06/24/22 10:47	100-42-5	
1,1,1,2-Tetrachloroethane	**<14.5**	ug/kg	60.5	14.5	1	06/21/22 08:15	06/24/22 10:47	630-20-6	
1,1,2,2-Tetrachloroethane	**<21.9**	ug/kg	60.5	21.9	1	06/21/22 08:15	06/24/22 10:47	79-34-5	
Tetrachloroethene	**124**	ug/kg	60.5	23.5	1	06/21/22 08:15	06/24/22 10:47	127-18-4	
Toluene	**87.4**	ug/kg	60.5	15.3	1	06/21/22 08:15	06/24/22 10:47	108-88-3	
1,2,3-Trichlorobenzene	**<67.4**	ug/kg	303	67.4	1	06/21/22 08:15	06/24/22 10:47	87-61-6	
1,2,4-Trichlorobenzene	**<49.9**	ug/kg	303	49.9	1	06/21/22 08:15	06/24/22 10:47	120-82-1	
1,1,1-Trichloroethane	**<15.5**	ug/kg	60.5	15.5	1	06/21/22 08:15	06/24/22 10:47	71-55-6	
1,1,2-Trichloroethane	**<22.0**	ug/kg	60.5	22.0	1	06/21/22 08:15	06/24/22 10:47	79-00-5	
Trichloroethene	**<22.6**	ug/kg	60.5	22.6	1	06/21/22 08:15	06/24/22 10:47	79-01-6	
Trichlorofluoromethane	**<17.6**	ug/kg	60.5	17.6	1	06/21/22 08:15	06/24/22 10:47	75-69-4	
1,2,3-Trichloropropane	**<29.4**	ug/kg	60.5	29.4	1	06/21/22 08:15	06/24/22 10:47	96-18-4	
1,2,4-Trimethylbenzene	**59.7J**	ug/kg	60.5	18.0	1	06/21/22 08:15	06/24/22 10:47	95-63-6	
1,3,5-Trimethylbenzene	**<19.5**	ug/kg	60.5	19.5	1	06/21/22 08:15	06/24/22 10:47	108-67-8	
Vinyl chloride	**<12.2**	ug/kg	60.5	12.2	1	06/21/22 08:15	06/24/22 10:47	75-01-4	
Xylene (Total)	**117J**	ug/kg	182	43.7	1	06/21/22 08:15	06/24/22 10:47	1330-20-7	
m&p-Xylene	**96.4J**	ug/kg	121	25.5	1	06/21/22 08:15	06/24/22 10:47	179601-23-1	
o-Xylene	**20.8J**	ug/kg	60.5	18.2	1	06/21/22 08:15	06/24/22 10:47	95-47-6	
Surrogates									
Toluene-d8 (S)	117	%	69-153		1	06/21/22 08:15	06/24/22 10:47	2037-26-5	
4-Bromofluorobenzene (S)	140	%	68-156		1	06/21/22 08:15	06/24/22 10:47	460-00-4	
1,2-Dichlorobenzene-d4 (S)	130	%	71-161		1	06/21/22 08:15	06/24/22 10:47	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**9.5**	%	0.10	0.10	1		06/20/22 11:06		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-15_(1.5-3.5) **Lab ID: 40246796011** Collected: 06/14/22 13:30 Received: 06/17/22 14:05 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)	**<16.8**	ug/kg	55.2	16.8	1	06/23/22 05:20	06/23/22 13:51	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.8**	ug/kg	55.2	16.8	1	06/23/22 05:20	06/23/22 13:51	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.8**	ug/kg	55.2	16.8	1	06/23/22 05:20	06/23/22 13:51	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.8**	ug/kg	55.2	16.8	1	06/23/22 05:20	06/23/22 13:51	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.8**	ug/kg	55.2	16.8	1	06/23/22 05:20	06/23/22 13:51	12672-29-6	
PCB-1254 (Aroclor 1254)	**44.7J**	ug/kg	55.2	16.8	1	06/23/22 05:20	06/23/22 13:51	11097-69-1	
PCB-1260 (Aroclor 1260)	**24.5J**	ug/kg	55.2	16.8	1	06/23/22 05:20	06/23/22 13:51	11096-82-5	
PCB, Total	**69.2**	ug/kg	55.2	16.8	1	06/23/22 05:20	06/23/22 13:51	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	50-99		1	06/23/22 05:20	06/23/22 13:51	877-09-8	
Decachlorobiphenyl (S)	82	%	38-95		1	06/23/22 05:20	06/23/22 13:51	2051-24-3	
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	06/21/22 06:58	06/21/22 20:24	7440-38-2	
Barium	**30.7**	mg/kg	0.51	0.15	1	06/21/22 06:58	06/21/22 20:24	7440-39-3	
Cadmium	**0.14J**	mg/kg	0.51	0.13	1	06/21/22 06:58	06/21/22 20:24	7440-43-9	
Chromium	**10.7**	mg/kg	1.0	0.28	1	06/21/22 06:58	06/21/22 20:24	7440-47-3	
Lead	**43.5**	mg/kg	2.0	0.61	1	06/21/22 06:58	06/21/22 20:24	7439-92-1	
Selenium	**<1.3**	mg/kg	4.0	1.3	1	06/21/22 06:58	06/21/22 20:24	7782-49-2	
Silver	**<0.31**	mg/kg	1.0	0.31	1	06/21/22 06:58	06/21/22 20:24	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.22**	mg/kg	0.036	0.010	1	06/24/22 08:09	06/27/22 08:11	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**13.1J**	ug/kg	36.9	4.8	2	06/23/22 07:45	06/23/22 15:41	83-32-9	
Acenaphthylene	**67.6**	ug/kg	36.9	4.7	2	06/23/22 07:45	06/23/22 15:41	208-96-8	
Anthracene	**58.2**	ug/kg	36.9	4.6	2	06/23/22 07:45	06/23/22 15:41	120-12-7	
Benzo(a)anthracene	**290**	ug/kg	36.9	4.8	2	06/23/22 07:45	06/23/22 15:41	56-55-3	
Benzo(a)pyrene	**336**	ug/kg	36.9	4.2	2	06/23/22 07:45	06/23/22 15:41	50-32-8	
Benzo(b)fluoranthene	**412**	ug/kg	36.9	5.1	2	06/23/22 07:45	06/23/22 15:41	205-99-2	
Benzo(g,h,i)perylene	**215**	ug/kg	36.9	6.5	2	06/23/22 07:45	06/23/22 15:41	191-24-2	
Benzo(k)fluoranthene	**186**	ug/kg	36.9	4.7	2	06/23/22 07:45	06/23/22 15:41	207-08-9	
Chrysene	**304**	ug/kg	36.9	7.0	2	06/23/22 07:45	06/23/22 15:41	218-01-9	
Dibenz(a,h)anthracene	**58.9**	ug/kg	36.9	5.1	2	06/23/22 07:45	06/23/22 15:41	53-70-3	
Fluoranthene	**568**	ug/kg	36.9	4.4	2	06/23/22 07:45	06/23/22 15:41	206-44-0	
Fluorene	**15.3J**	ug/kg	36.9	4.4	2	06/23/22 07:45	06/23/22 15:41	86-73-7	
Indeno(1,2,3-cd)pyrene	**184**	ug/kg	36.9	7.7	2	06/23/22 07:45	06/23/22 15:41	193-39-5	
1-Methylnaphthalene	**26.4J**	ug/kg	36.9	5.4	2	06/23/22 07:45	06/23/22 15:41	90-12-0	
2-Methylnaphthalene	**45.1**	ug/kg	36.9	5.4	2	06/23/22 07:45	06/23/22 15:41	91-57-6	
Naphthalene	**74.9**	ug/kg	36.9	3.6	2	06/23/22 07:45	06/23/22 15:41	91-20-3	

REPORT OF LABORATORY ANALYSIS

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(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-15_(1.5-3.5) **Lab ID: 40246796011** Collected: 06/14/22 13:30 Received: 06/17/22 14:05 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	**218**	ug/kg	36.9	4.2	2	06/23/22 07:45	06/23/22 15:41	85-01-8	
Pyrene	**495**	ug/kg	36.9	5.4	2	06/23/22 07:45	06/23/22 15:41	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	66	%	41-98		2	06/23/22 07:45	06/23/22 15:41	321-60-8	
Terphenyl-d14 (S)	76	%	37-106		2	06/23/22 07:45	06/23/22 15:41	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Benzene	**<14.4**	ug/kg	24.2	14.4	1	06/21/22 08:15	06/22/22 22:48	71-43-2	
Bromobenzene	**<23.6**	ug/kg	60.5	23.6	1	06/21/22 08:15	06/22/22 22:48	108-86-1	
Bromochloromethane	**<16.6**	ug/kg	60.5	16.6	1	06/21/22 08:15	06/22/22 22:48	74-97-5	
Bromodichloromethane	**<14.4**	ug/kg	60.5	14.4	1	06/21/22 08:15	06/22/22 22:48	75-27-4	
Bromoform	**<266**	ug/kg	302	266	1	06/21/22 08:15	06/22/22 22:48	75-25-2	
Bromomethane	**<84.8**	ug/kg	302	84.8	1	06/21/22 08:15	06/22/22 22:48	74-83-9	
n-Butylbenzene	**<27.7**	ug/kg	60.5	27.7	1	06/21/22 08:15	06/22/22 22:48	104-51-8	
sec-Butylbenzene	**<14.8**	ug/kg	60.5	14.8	1	06/21/22 08:15	06/22/22 22:48	135-98-8	
tert-Butylbenzene	**<19.0**	ug/kg	60.5	19.0	1	06/21/22 08:15	06/22/22 22:48	98-06-6	
Carbon tetrachloride	**<13.3**	ug/kg	60.5	13.3	1	06/21/22 08:15	06/22/22 22:48	56-23-5	
Chlorobenzene	**<7.2**	ug/kg	60.5	7.2	1	06/21/22 08:15	06/22/22 22:48	108-90-7	
Chloroethane	**<25.5**	ug/kg	302	25.5	1	06/21/22 08:15	06/22/22 22:48	75-00-3	
Chloroform	**<43.3**	ug/kg	302	43.3	1	06/21/22 08:15	06/22/22 22:48	67-66-3	
Chloromethane	**<23.0**	ug/kg	60.5	23.0	1	06/21/22 08:15	06/22/22 22:48	74-87-3	
2-Chlorotoluene	**<19.6**	ug/kg	60.5	19.6	1	06/21/22 08:15	06/22/22 22:48	95-49-8	
4-Chlorotoluene	**<23.0**	ug/kg	60.5	23.0	1	06/21/22 08:15	06/22/22 22:48	106-43-4	
1,2-Dibromo-3-chloropropane	**<46.9**	ug/kg	302	46.9	1	06/21/22 08:15	06/22/22 22:48	96-12-8	
Dibromochloromethane	**<207**	ug/kg	302	207	1	06/21/22 08:15	06/22/22 22:48	124-48-1	
1,2-Dibromoethane (EDB)	**<16.6**	ug/kg	60.5	16.6	1	06/21/22 08:15	06/22/22 22:48	106-93-4	
Dibromomethane	**<17.9**	ug/kg	60.5	17.9	1	06/21/22 08:15	06/22/22 22:48	74-95-3	
1,2-Dichlorobenzene	**<18.7**	ug/kg	60.5	18.7	1	06/21/22 08:15	06/22/22 22:48	95-50-1	
1,3-Dichlorobenzene	**<16.6**	ug/kg	60.5	16.6	1	06/21/22 08:15	06/22/22 22:48	541-73-1	
1,4-Dichlorobenzene	**<16.6**	ug/kg	60.5	16.6	1	06/21/22 08:15	06/22/22 22:48	106-46-7	
Dichlorodifluoromethane	**<26.0**	ug/kg	60.5	26.0	1	06/21/22 08:15	06/22/22 22:48	75-71-8	
1,1-Dichloroethane	**<15.5**	ug/kg	60.5	15.5	1	06/21/22 08:15	06/22/22 22:48	75-34-3	
1,2-Dichloroethane	**<13.9**	ug/kg	60.5	13.9	1	06/21/22 08:15	06/22/22 22:48	107-06-2	
1,1-Dichloroethene	**<20.1**	ug/kg	60.5	20.1	1	06/21/22 08:15	06/22/22 22:48	75-35-4	
cis-1,2-Dichloroethene	**<12.9**	ug/kg	60.5	12.9	1	06/21/22 08:15	06/22/22 22:48	156-59-2	
trans-1,2-Dichloroethene	**<13.1**	ug/kg	60.5	13.1	1	06/21/22 08:15	06/22/22 22:48	156-60-5	
1,2-Dichloropropane	**<14.4**	ug/kg	60.5	14.4	1	06/21/22 08:15	06/22/22 22:48	78-87-5	
1,3-Dichloropropane	**<13.2**	ug/kg	60.5	13.2	1	06/21/22 08:15	06/22/22 22:48	142-28-9	
2,2-Dichloropropane	**<16.3**	ug/kg	60.5	16.3	1	06/21/22 08:15	06/22/22 22:48	594-20-7	
1,1-Dichloropropene	**<19.6**	ug/kg	60.5	19.6	1	06/21/22 08:15	06/22/22 22:48	563-58-6	
cis-1,3-Dichloropropene	**<39.9**	ug/kg	302	39.9	1	06/21/22 08:15	06/22/22 22:48	10061-01-5	
trans-1,3-Dichloropropene	**<173**	ug/kg	302	173	1	06/21/22 08:15	06/22/22 22:48	10061-02-6	
Diisopropyl ether	**<15.0**	ug/kg	60.5	15.0	1	06/21/22 08:15	06/22/22 22:48	108-20-3	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-15_(1.5-3.5) **Lab ID: 40246796011** Collected: 06/14/22 13:30 Received: 06/17/22 14:05 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	**<14.4**	ug/kg	60.5	14.4	1	06/21/22 08:15	06/22/22 22:48	100-41-4	
Hexachloro-1,3-butadiene	**<120**	ug/kg	302	120	1	06/21/22 08:15	06/22/22 22:48	87-68-3	
Isopropylbenzene (Cumene)	**<16.3**	ug/kg	60.5	16.3	1	06/21/22 08:15	06/22/22 22:48	98-82-8	
p-Isopropyltoluene	**<18.4**	ug/kg	60.5	18.4	1	06/21/22 08:15	06/22/22 22:48	99-87-6	
Methylene Chloride	**<16.8**	ug/kg	60.5	16.8	1	06/21/22 08:15	06/22/22 22:48	75-09-2	
Methyl-tert-butyl ether	**<17.8**	ug/kg	60.5	17.8	1	06/21/22 08:15	06/22/22 22:48	1634-04-4	
Naphthalene	**27.8J**	ug/kg	302	18.9	1	06/21/22 08:15	06/22/22 22:48	91-20-3	
n-Propylbenzene	**<14.5**	ug/kg	60.5	14.5	1	06/21/22 08:15	06/22/22 22:48	103-65-1	
Styrene	**<15.5**	ug/kg	60.5	15.5	1	06/21/22 08:15	06/22/22 22:48	100-42-5	
1,1,1,2-Tetrachloroethane	**<14.5**	ug/kg	60.5	14.5	1	06/21/22 08:15	06/22/22 22:48	630-20-6	
1,1,2,2-Tetrachloroethane	**<21.9**	ug/kg	60.5	21.9	1	06/21/22 08:15	06/22/22 22:48	79-34-5	
Tetrachloroethene	**<23.5**	ug/kg	60.5	23.5	1	06/21/22 08:15	06/22/22 22:48	127-18-4	
Toluene	**<15.2**	ug/kg	60.5	15.2	1	06/21/22 08:15	06/22/22 22:48	108-88-3	
1,2,3-Trichlorobenzene	**<67.4**	ug/kg	302	67.4	1	06/21/22 08:15	06/22/22 22:48	87-61-6	
1,2,4-Trichlorobenzene	**<49.8**	ug/kg	302	49.8	1	06/21/22 08:15	06/22/22 22:48	120-82-1	
1,1,1-Trichloroethane	**<15.5**	ug/kg	60.5	15.5	1	06/21/22 08:15	06/22/22 22:48	71-55-6	
1,1,2-Trichloroethane	**<22.0**	ug/kg	60.5	22.0	1	06/21/22 08:15	06/22/22 22:48	79-00-5	
Trichloroethene	**<22.6**	ug/kg	60.5	22.6	1	06/21/22 08:15	06/22/22 22:48	79-01-6	
Trichlorofluoromethane	**<17.5**	ug/kg	60.5	17.5	1	06/21/22 08:15	06/22/22 22:48	75-69-4	
1,2,3-Trichloropropane	**<29.4**	ug/kg	60.5	29.4	1	06/21/22 08:15	06/22/22 22:48	96-18-4	
1,2,4-Trimethylbenzene	**<18.0**	ug/kg	60.5	18.0	1	06/21/22 08:15	06/22/22 22:48	95-63-6	
1,3,5-Trimethylbenzene	**<19.5**	ug/kg	60.5	19.5	1	06/21/22 08:15	06/22/22 22:48	108-67-8	
Vinyl chloride	**<12.2**	ug/kg	60.5	12.2	1	06/21/22 08:15	06/22/22 22:48	75-01-4	
Xylene (Total)	**<43.7**	ug/kg	181	43.7	1	06/21/22 08:15	06/22/22 22:48	1330-20-7	
m&p-Xylene	**<25.5**	ug/kg	121	25.5	1	06/21/22 08:15	06/22/22 22:48	179601-23-1	
o-Xylene	**<18.1**	ug/kg	60.5	18.1	1	06/21/22 08:15	06/22/22 22:48	95-47-6	
Surrogates									
Toluene-d8 (S)	134	%	69-153		1	06/21/22 08:15	06/22/22 22:48	2037-26-5	
4-Bromofluorobenzene (S)	127	%	68-156		1	06/21/22 08:15	06/22/22 22:48	460-00-4	
1,2-Dichlorobenzene-d4 (S)	109	%	71-161		1	06/21/22 08:15	06/22/22 22:48	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**9.5**	%	0.10	0.10	1		06/20/22 11:06		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-3_(1.5-3.5) **Lab ID: 40246796012** Collected: 06/14/22 14:30 Received: 06/17/22 14:05 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)	**<16.2**	ug/kg	53.3	16.2	1	06/23/22 05:20	06/23/22 18:59	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.2**	ug/kg	53.3	16.2	1	06/23/22 05:20	06/23/22 18:59	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.2**	ug/kg	53.3	16.2	1	06/23/22 05:20	06/23/22 18:59	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.2**	ug/kg	53.3	16.2	1	06/23/22 05:20	06/23/22 18:59	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.2**	ug/kg	53.3	16.2	1	06/23/22 05:20	06/23/22 18:59	12672-29-6	
PCB-1254 (Aroclor 1254)	**30.6J**	ug/kg	53.3	16.2	1	06/23/22 05:20	06/23/22 18:59	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.2**	ug/kg	53.3	16.2	1	06/23/22 05:20	06/23/22 18:59	11096-82-5	
PCB, Total	**30.6J**	ug/kg	53.3	16.2	1	06/23/22 05:20	06/23/22 18:59	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	92	%	50-99		1	06/23/22 05:20	06/23/22 18:59	877-09-8	
Decachlorobiphenyl (S)	82	%	38-95		1	06/23/22 05:20	06/23/22 18:59	2051-24-3	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Arsenic	**6.8**	mg/kg	2.6	1.5	1	06/21/22 06:58	06/21/22 20:26	7440-38-2	
Barium	**21.1**	mg/kg	0.52	0.16	1	06/21/22 06:58	06/21/22 20:26	7440-39-3	
Cadmium	**0.36J**	mg/kg	0.52	0.14	1	06/21/22 06:58	06/21/22 20:26	7440-43-9	
Chromium	**9.4**	mg/kg	1.0	0.29	1	06/21/22 06:58	06/21/22 20:26	7440-47-3	
Lead	**23.5**	mg/kg	2.1	0.62	1	06/21/22 06:58	06/21/22 20:26	7439-92-1	
Selenium	**<1.4**	mg/kg	4.2	1.4	1	06/21/22 06:58	06/21/22 20:26	7782-49-2	
Silver	**<0.32**	mg/kg	1.0	0.32	1	06/21/22 06:58	06/21/22 20:26	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.021J**	mg/kg	0.036	0.010	1	06/24/22 08:09	06/27/22 08:14	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**12.2J**	ug/kg	17.8	2.3	1	06/23/22 07:45	06/23/22 15:58	83-32-9	
Acenaphthylene	**32.8**	ug/kg	17.8	2.2	1	06/23/22 07:45	06/23/22 15:58	208-96-8	
Anthracene	**43.5**	ug/kg	17.8	2.2	1	06/23/22 07:45	06/23/22 15:58	120-12-7	
Benzo(a)anthracene	**160**	ug/kg	17.8	2.3	1	06/23/22 07:45	06/23/22 15:58	56-55-3	
Benzo(a)pyrene	**222**	ug/kg	17.8	2.0	1	06/23/22 07:45	06/23/22 15:58	50-32-8	
Benzo(b)fluoranthene	**295**	ug/kg	17.8	2.5	1	06/23/22 07:45	06/23/22 15:58	205-99-2	
Benzo(g,h,i)perylene	**113**	ug/kg	17.8	3.1	1	06/23/22 07:45	06/23/22 15:58	191-24-2	
Benzo(k)fluoranthene	**118**	ug/kg	17.8	2.3	1	06/23/22 07:45	06/23/22 15:58	207-08-9	
Chrysene	**194**	ug/kg	17.8	3.4	1	06/23/22 07:45	06/23/22 15:58	218-01-9	
Dibenz(a,h)anthracene	**37.2**	ug/kg	17.8	2.5	1	06/23/22 07:45	06/23/22 15:58	53-70-3	
Fluoranthene	**312**	ug/kg	17.8	2.1	1	06/23/22 07:45	06/23/22 15:58	206-44-0	
Fluorene	**14.1J**	ug/kg	17.8	2.1	1	06/23/22 07:45	06/23/22 15:58	86-73-7	
Indeno(1,2,3-cd)pyrene	**96.8**	ug/kg	17.8	3.7	1	06/23/22 07:45	06/23/22 15:58	193-39-5	
1-Methylnaphthalene	**31.4**	ug/kg	17.8	2.6	1	06/23/22 07:45	06/23/22 15:58	90-12-0	
2-Methylnaphthalene	**50.6**	ug/kg	17.8	2.6	1	06/23/22 07:45	06/23/22 15:58	91-57-6	
Naphthalene	**48.2**	ug/kg	17.8	1.7	1	06/23/22 07:45	06/23/22 15:58	91-20-3	

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-3_(1.5-3.5) **Lab ID: 40246796012** Collected: 06/14/22 14:30 Received: 06/17/22 14:05 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	**149**	ug/kg	17.8	2.0	1	06/23/22 07:45	06/23/22 15:58	85-01-8	
Pyrene	**298**	ug/kg	17.8	2.6	1	06/23/22 07:45	06/23/22 15:58	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	74	%	41-98		1	06/23/22 07:45	06/23/22 15:58	321-60-8	
Terphenyl-d14 (S)	81	%	37-106		1	06/23/22 07:45	06/23/22 15:58	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Benzene	**<13.4**	ug/kg	22.6	13.4	1	06/21/22 08:15	06/22/22 23:08	71-43-2	
Bromobenzene	**<22.0**	ug/kg	56.5	22.0	1	06/21/22 08:15	06/22/22 23:08	108-86-1	
Bromochloromethane	**<15.5**	ug/kg	56.5	15.5	1	06/21/22 08:15	06/22/22 23:08	74-97-5	
Bromodichloromethane	**<13.4**	ug/kg	56.5	13.4	1	06/21/22 08:15	06/22/22 23:08	75-27-4	
Bromoform	**<249**	ug/kg	282	249	1	06/21/22 08:15	06/22/22 23:08	75-25-2	
Bromomethane	**<79.2**	ug/kg	282	79.2	1	06/21/22 08:15	06/22/22 23:08	74-83-9	
n-Butylbenzene	**<25.9**	ug/kg	56.5	25.9	1	06/21/22 08:15	06/22/22 23:08	104-51-8	
sec-Butylbenzene	**<13.8**	ug/kg	56.5	13.8	1	06/21/22 08:15	06/22/22 23:08	135-98-8	
tert-Butylbenzene	**<17.7**	ug/kg	56.5	17.7	1	06/21/22 08:15	06/22/22 23:08	98-06-6	
Carbon tetrachloride	**<12.4**	ug/kg	56.5	12.4	1	06/21/22 08:15	06/22/22 23:08	56-23-5	
Chlorobenzene	**<6.8**	ug/kg	56.5	6.8	1	06/21/22 08:15	06/22/22 23:08	108-90-7	
Chloroethane	**<23.8**	ug/kg	282	23.8	1	06/21/22 08:15	06/22/22 23:08	75-00-3	
Chloroform	**<40.4**	ug/kg	282	40.4	1	06/21/22 08:15	06/22/22 23:08	67-66-3	
Chloromethane	**<21.5**	ug/kg	56.5	21.5	1	06/21/22 08:15	06/22/22 23:08	74-87-3	
2-Chlorotoluene	**<18.3**	ug/kg	56.5	18.3	1	06/21/22 08:15	06/22/22 23:08	95-49-8	
4-Chlorotoluene	**<21.5**	ug/kg	56.5	21.5	1	06/21/22 08:15	06/22/22 23:08	106-43-4	
1,2-Dibromo-3-chloropropane	**<43.8**	ug/kg	282	43.8	1	06/21/22 08:15	06/22/22 23:08	96-12-8	
Dibromochloromethane	**<193**	ug/kg	282	193	1	06/21/22 08:15	06/22/22 23:08	124-48-1	
1,2-Dibromoethane (EDB)	**<15.5**	ug/kg	56.5	15.5	1	06/21/22 08:15	06/22/22 23:08	106-93-4	
Dibromomethane	**<16.7**	ug/kg	56.5	16.7	1	06/21/22 08:15	06/22/22 23:08	74-95-3	
1,2-Dichlorobenzene	**<17.5**	ug/kg	56.5	17.5	1	06/21/22 08:15	06/22/22 23:08	95-50-1	
1,3-Dichlorobenzene	**<15.5**	ug/kg	56.5	15.5	1	06/21/22 08:15	06/22/22 23:08	541-73-1	
1,4-Dichlorobenzene	**<15.5**	ug/kg	56.5	15.5	1	06/21/22 08:15	06/22/22 23:08	106-46-7	
Dichlorodifluoromethane	**<24.3**	ug/kg	56.5	24.3	1	06/21/22 08:15	06/22/22 23:08	75-71-8	
1,1-Dichloroethane	**<14.5**	ug/kg	56.5	14.5	1	06/21/22 08:15	06/22/22 23:08	75-34-3	
1,2-Dichloroethane	**<13.0**	ug/kg	56.5	13.0	1	06/21/22 08:15	06/22/22 23:08	107-06-2	
1,1-Dichloroethene	**<18.8**	ug/kg	56.5	18.8	1	06/21/22 08:15	06/22/22 23:08	75-35-4	
cis-1,2-Dichloroethene	**<12.1**	ug/kg	56.5	12.1	1	06/21/22 08:15	06/22/22 23:08	156-59-2	
trans-1,2-Dichloroethene	**<12.2**	ug/kg	56.5	12.2	1	06/21/22 08:15	06/22/22 23:08	156-60-5	
1,2-Dichloropropane	**<13.4**	ug/kg	56.5	13.4	1	06/21/22 08:15	06/22/22 23:08	78-87-5	
1,3-Dichloropropane	**<12.3**	ug/kg	56.5	12.3	1	06/21/22 08:15	06/22/22 23:08	142-28-9	
2,2-Dichloropropane	**<15.3**	ug/kg	56.5	15.3	1	06/21/22 08:15	06/22/22 23:08	594-20-7	
1,1-Dichloropropene	**<18.3**	ug/kg	56.5	18.3	1	06/21/22 08:15	06/22/22 23:08	563-58-6	
cis-1,3-Dichloropropene	**<37.3**	ug/kg	282	37.3	1	06/21/22 08:15	06/22/22 23:08	10061-01-5	
trans-1,3-Dichloropropene	**<162**	ug/kg	282	162	1	06/21/22 08:15	06/22/22 23:08	10061-02-6	
Diisopropyl ether	**<14.0**	ug/kg	56.5	14.0	1	06/21/22 08:15	06/22/22 23:08	108-20-3	

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(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-3_(1.5-3.5) **Lab ID: 40246796012** Collected: 06/14/22 14:30 Received: 06/17/22 14:05 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	**<13.4**	ug/kg	56.5	13.4	1	06/21/22 08:15	06/22/22 23:08	100-41-4	
Hexachloro-1,3-butadiene	**<112**	ug/kg	282	112	1	06/21/22 08:15	06/22/22 23:08	87-68-3	
Isopropylbenzene (Cumene)	**<15.3**	ug/kg	56.5	15.3	1	06/21/22 08:15	06/22/22 23:08	98-82-8	
p-Isopropyltoluene	**<17.2**	ug/kg	56.5	17.2	1	06/21/22 08:15	06/22/22 23:08	99-87-6	
Methylene Chloride	**<15.7**	ug/kg	56.5	15.7	1	06/21/22 08:15	06/22/22 23:08	75-09-2	
Methyl-tert-butyl ether	**<16.6**	ug/kg	56.5	16.6	1	06/21/22 08:15	06/22/22 23:08	1634-04-4	
Naphthalene	**105J**	ug/kg	282	17.6	1	06/21/22 08:15	06/22/22 23:08	91-20-3	
n-Propylbenzene	**<13.6**	ug/kg	56.5	13.6	1	06/21/22 08:15	06/22/22 23:08	103-65-1	
Styrene	**<14.5**	ug/kg	56.5	14.5	1	06/21/22 08:15	06/22/22 23:08	100-42-5	
1,1,1,2-Tetrachloroethane	**<13.6**	ug/kg	56.5	13.6	1	06/21/22 08:15	06/22/22 23:08	630-20-6	
1,1,2,2-Tetrachloroethane	**<20.4**	ug/kg	56.5	20.4	1	06/21/22 08:15	06/22/22 23:08	79-34-5	
Tetrachloroethene	**<21.9**	ug/kg	56.5	21.9	1	06/21/22 08:15	06/22/22 23:08	127-18-4	
Toluene	**27.0J**	ug/kg	56.5	14.2	1	06/21/22 08:15	06/22/22 23:08	108-88-3	
1,2,3-Trichlorobenzene	**<62.9**	ug/kg	282	62.9	1	06/21/22 08:15	06/22/22 23:08	87-61-6	
1,2,4-Trichlorobenzene	**<46.5**	ug/kg	282	46.5	1	06/21/22 08:15	06/22/22 23:08	120-82-1	
1,1,1-Trichloroethane	**<14.5**	ug/kg	56.5	14.5	1	06/21/22 08:15	06/22/22 23:08	71-55-6	
1,1,2-Trichloroethane	**<20.6**	ug/kg	56.5	20.6	1	06/21/22 08:15	06/22/22 23:08	79-00-5	
Trichloroethene	**<21.1**	ug/kg	56.5	21.1	1	06/21/22 08:15	06/22/22 23:08	79-01-6	
Trichlorofluoromethane	**<16.4**	ug/kg	56.5	16.4	1	06/21/22 08:15	06/22/22 23:08	75-69-4	
1,2,3-Trichloropropane	**<27.5**	ug/kg	56.5	27.5	1	06/21/22 08:15	06/22/22 23:08	96-18-4	
1,2,4-Trimethylbenzene	**19.6J**	ug/kg	56.5	16.8	1	06/21/22 08:15	06/22/22 23:08	95-63-6	
1,3,5-Trimethylbenzene	**<18.2**	ug/kg	56.5	18.2	1	06/21/22 08:15	06/22/22 23:08	108-67-8	
Vinyl chloride	**<11.4**	ug/kg	56.5	11.4	1	06/21/22 08:15	06/22/22 23:08	75-01-4	
Xylene (Total)	**<40.8**	ug/kg	169	40.8	1	06/21/22 08:15	06/22/22 23:08	1330-20-7	
m&p-Xylene	**40.3J**	ug/kg	113	23.8	1	06/21/22 08:15	06/22/22 23:08	179601-23-1	
o-Xylene	**<16.9**	ug/kg	56.5	16.9	1	06/21/22 08:15	06/22/22 23:08	95-47-6	
Surrogates									
Toluene-d8 (S)	127	%	69-153		1	06/21/22 08:15	06/22/22 23:08	2037-26-5	
4-Bromofluorobenzene (S)	120	%	68-156		1	06/21/22 08:15	06/22/22 23:08	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	71-161		1	06/21/22 08:15	06/22/22 23:08	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**6.1**	%	0.10	0.10	1		06/20/22 11:06		

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-16_(1.5-3.5) **Lab ID: 40246796013** Collected: 06/14/22 15:15 Received: 06/17/22 14:05 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	56.6	17.2	1	06/23/22 05:20	06/23/22 19:21	12674-11-2	
PCB-1221 (Aroclor 1221)	**<17.2**	ug/kg	56.6	17.2	1	06/23/22 05:20	06/23/22 19:21	11104-28-2	
PCB-1232 (Aroclor 1232)	**<17.2**	ug/kg	56.6	17.2	1	06/23/22 05:20	06/23/22 19:21	11141-16-5	
PCB-1242 (Aroclor 1242)	**<17.2**	ug/kg	56.6	17.2	1	06/23/22 05:20	06/23/22 19:21	53469-21-9	
PCB-1248 (Aroclor 1248)	**<17.2**	ug/kg	56.6	17.2	1	06/23/22 05:20	06/23/22 19:21	12672-29-6	
PCB-1254 (Aroclor 1254)	**42.8J**	ug/kg	56.6	17.2	1	06/23/22 05:20	06/23/22 19:21	11097-69-1	
PCB-1260 (Aroclor 1260)	**30.1J**	ug/kg	56.6	17.2	1	06/23/22 05:20	06/23/22 19:21	11096-82-5	
PCB, Total	**72.9**	ug/kg	56.6	17.2	1	06/23/22 05:20	06/23/22 19:21	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	50-99		1	06/23/22 05:20	06/23/22 19:21	877-09-8	
Decachlorobiphenyl (S)	80	%	38-95		1	06/23/22 05:20	06/23/22 19:21	2051-24-3	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Arsenic	**4.1**	mg/kg	2.8	1.6	1	06/21/22 06:58	06/21/22 20:29	7440-38-2	
Barium	**41.6**	mg/kg	0.55	0.17	1	06/21/22 06:58	06/21/22 20:29	7440-39-3	
Cadmium	**0.40J**	mg/kg	0.55	0.15	1	06/21/22 06:58	06/21/22 20:29	7440-43-9	
Chromium	**12.4**	mg/kg	1.1	0.31	1	06/21/22 06:58	06/21/22 20:29	7440-47-3	
Lead	**112**	mg/kg	2.2	0.66	1	06/21/22 06:58	06/21/22 20:29	7439-92-1	
Selenium	**<1.4**	mg/kg	4.4	1.4	1	06/21/22 06:58	06/21/22 20:29	7782-49-2	
Silver	**0.39J**	mg/kg	1.1	0.34	1	06/21/22 06:58	06/21/22 20:29	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.030J**	mg/kg	0.037	0.010	1	06/24/22 08:09	06/27/22 08:16	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**16.8J**	ug/kg	38.0	4.9	2	06/23/22 07:45	06/23/22 16:15	83-32-9	
Acenaphthylene	**60.7**	ug/kg	38.0	4.8	2	06/23/22 07:45	06/23/22 16:15	208-96-8	
Anthracene	**78.7**	ug/kg	38.0	4.7	2	06/23/22 07:45	06/23/22 16:15	120-12-7	
Benzo(a)anthracene	**282**	ug/kg	38.0	4.9	2	06/23/22 07:45	06/23/22 16:15	56-55-3	
Benzo(a)pyrene	**269**	ug/kg	38.0	4.3	2	06/23/22 07:45	06/23/22 16:15	50-32-8	
Benzo(b)fluoranthene	**385**	ug/kg	38.0	5.3	2	06/23/22 07:45	06/23/22 16:15	205-99-2	
Benzo(g,h,i)perylene	**130**	ug/kg	38.0	6.7	2	06/23/22 07:45	06/23/22 16:15	191-24-2	
Benzo(k)fluoranthene	**136**	ug/kg	38.0	4.9	2	06/23/22 07:45	06/23/22 16:15	207-08-9	
Chrysene	**291**	ug/kg	38.0	7.2	2	06/23/22 07:45	06/23/22 16:15	218-01-9	
Dibenz(a,h)anthracene	**39.6**	ug/kg	38.0	5.3	2	06/23/22 07:45	06/23/22 16:15	53-70-3	
Fluoranthene	**554**	ug/kg	38.0	4.5	2	06/23/22 07:45	06/23/22 16:15	206-44-0	
Fluorene	**33.4J**	ug/kg	38.0	4.6	2	06/23/22 07:45	06/23/22 16:15	86-73-7	
Indeno(1,2,3-cd)pyrene	**116**	ug/kg	38.0	7.9	2	06/23/22 07:45	06/23/22 16:15	193-39-5	
1-Methylnaphthalene	**69.5**	ug/kg	38.0	5.5	2	06/23/22 07:45	06/23/22 16:15	90-12-0	
2-Methylnaphthalene	**104**	ug/kg	38.0	5.6	2	06/23/22 07:45	06/23/22 16:15	91-57-6	
Naphthalene	**99.1**	ug/kg	38.0	3.7	2	06/23/22 07:45	06/23/22 16:15	91-20-3	

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-16_(1.5-3.5) **Lab ID: 40246796013** Collected: 06/14/22 15:15 Received: 06/17/22 14:05 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	**385**	ug/kg	38.0	4.3	2	06/23/22 07:45	06/23/22 16:15	85-01-8	
Pyrene	**541**	ug/kg	38.0	5.6	2	06/23/22 07:45	06/23/22 16:15	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	62	%	41-98		2	06/23/22 07:45	06/23/22 16:15	321-60-8	
Terphenyl-d14 (S)	70	%	37-106		2	06/23/22 07:45	06/23/22 16:15	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Benzene	**<15.1**	ug/kg	25.4	15.1	1	06/21/22 08:15	06/22/22 23:27	71-43-2	
Bromobenzene	**<24.8**	ug/kg	63.6	24.8	1	06/21/22 08:15	06/22/22 23:27	108-86-1	
Bromochloromethane	**<17.4**	ug/kg	63.6	17.4	1	06/21/22 08:15	06/22/22 23:27	74-97-5	
Bromodichloromethane	**<15.1**	ug/kg	63.6	15.1	1	06/21/22 08:15	06/22/22 23:27	75-27-4	
Bromoform	**<280**	ug/kg	318	280	1	06/21/22 08:15	06/22/22 23:27	75-25-2	
Bromomethane	**<89.1**	ug/kg	318	89.1	1	06/21/22 08:15	06/22/22 23:27	74-83-9	
n-Butylbenzene	**<29.1**	ug/kg	63.6	29.1	1	06/21/22 08:15	06/22/22 23:27	104-51-8	
sec-Butylbenzene	**<15.5**	ug/kg	63.6	15.5	1	06/21/22 08:15	06/22/22 23:27	135-98-8	
tert-Butylbenzene	**<20.0**	ug/kg	63.6	20.0	1	06/21/22 08:15	06/22/22 23:27	98-06-6	
Carbon tetrachloride	**<14.0**	ug/kg	63.6	14.0	1	06/21/22 08:15	06/22/22 23:27	56-23-5	
Chlorobenzene	**<7.6**	ug/kg	63.6	7.6	1	06/21/22 08:15	06/22/22 23:27	108-90-7	
Chloroethane	**<26.8**	ug/kg	318	26.8	1	06/21/22 08:15	06/22/22 23:27	75-00-3	
Chloroform	**<45.5**	ug/kg	318	45.5	1	06/21/22 08:15	06/22/22 23:27	67-66-3	
Chloromethane	**<24.2**	ug/kg	63.6	24.2	1	06/21/22 08:15	06/22/22 23:27	74-87-3	
2-Chlorotoluene	**<20.6**	ug/kg	63.6	20.6	1	06/21/22 08:15	06/22/22 23:27	95-49-8	
4-Chlorotoluene	**<24.2**	ug/kg	63.6	24.2	1	06/21/22 08:15	06/22/22 23:27	106-43-4	
1,2-Dibromo-3-chloropropane	**<49.3**	ug/kg	318	49.3	1	06/21/22 08:15	06/22/22 23:27	96-12-8	
Dibromochloromethane	**<217**	ug/kg	318	217	1	06/21/22 08:15	06/22/22 23:27	124-48-1	
1,2-Dibromoethane (EDB)	**<17.4**	ug/kg	63.6	17.4	1	06/21/22 08:15	06/22/22 23:27	106-93-4	
Dibromomethane	**<18.8**	ug/kg	63.6	18.8	1	06/21/22 08:15	06/22/22 23:27	74-95-3	
1,2-Dichlorobenzene	**<19.7**	ug/kg	63.6	19.7	1	06/21/22 08:15	06/22/22 23:27	95-50-1	
1,3-Dichlorobenzene	**<17.4**	ug/kg	63.6	17.4	1	06/21/22 08:15	06/22/22 23:27	541-73-1	
1,4-Dichlorobenzene	**<17.4**	ug/kg	63.6	17.4	1	06/21/22 08:15	06/22/22 23:27	106-46-7	
Dichlorodifluoromethane	**<27.3**	ug/kg	63.6	27.3	1	06/21/22 08:15	06/22/22 23:27	75-71-8	
1,1-Dichloroethane	**<16.3**	ug/kg	63.6	16.3	1	06/21/22 08:15	06/22/22 23:27	75-34-3	
1,2-Dichloroethane	**<14.6**	ug/kg	63.6	14.6	1	06/21/22 08:15	06/22/22 23:27	107-06-2	
1,1-Dichloroethene	**<21.1**	ug/kg	63.6	21.1	1	06/21/22 08:15	06/22/22 23:27	75-35-4	
cis-1,2-Dichloroethene	**<13.6**	ug/kg	63.6	13.6	1	06/21/22 08:15	06/22/22 23:27	156-59-2	
trans-1,2-Dichloroethene	**<13.7**	ug/kg	63.6	13.7	1	06/21/22 08:15	06/22/22 23:27	156-60-5	
1,2-Dichloropropane	**<15.1**	ug/kg	63.6	15.1	1	06/21/22 08:15	06/22/22 23:27	78-87-5	
1,3-Dichloropropane	**<13.9**	ug/kg	63.6	13.9	1	06/21/22 08:15	06/22/22 23:27	142-28-9	
2,2-Dichloropropane	**<17.2**	ug/kg	63.6	17.2	1	06/21/22 08:15	06/22/22 23:27	594-20-7	
1,1-Dichloropropene	**<20.6**	ug/kg	63.6	20.6	1	06/21/22 08:15	06/22/22 23:27	563-58-6	
cis-1,3-Dichloropropene	**<42.0**	ug/kg	318	42.0	1	06/21/22 08:15	06/22/22 23:27	10061-01-5	
trans-1,3-Dichloropropene	**<182**	ug/kg	318	182	1	06/21/22 08:15	06/22/22 23:27	10061-02-6	
Diisopropyl ether	**<15.8**	ug/kg	63.6	15.8	1	06/21/22 08:15	06/22/22 23:27	108-20-3	

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-16_(1.5-3.5) **Lab ID: 40246796013** Collected: 06/14/22 15:15 Received: 06/17/22 14:05 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	**<15.1**	ug/kg	63.6	15.1	1	06/21/22 08:15	06/22/22 23:27	100-41-4	
Hexachloro-1,3-butadiene	**<126**	ug/kg	318	126	1	06/21/22 08:15	06/22/22 23:27	87-68-3	
Isopropylbenzene (Cumene)	**<17.2**	ug/kg	63.6	17.2	1	06/21/22 08:15	06/22/22 23:27	98-82-8	
p-Isopropyltoluene	**<19.3**	ug/kg	63.6	19.3	1	06/21/22 08:15	06/22/22 23:27	99-87-6	
Methylene Chloride	**<17.7**	ug/kg	63.6	17.7	1	06/21/22 08:15	06/22/22 23:27	75-09-2	
Methyl-tert-butyl ether	**<18.7**	ug/kg	63.6	18.7	1	06/21/22 08:15	06/22/22 23:27	1634-04-4	
Naphthalene	**25.1J**	ug/kg	318	19.8	1	06/21/22 08:15	06/22/22 23:27	91-20-3	
n-Propylbenzene	**<15.3**	ug/kg	63.6	15.3	1	06/21/22 08:15	06/22/22 23:27	103-65-1	
Styrene	**<16.3**	ug/kg	63.6	16.3	1	06/21/22 08:15	06/22/22 23:27	100-42-5	
1,1,1,2-Tetrachloroethane	**<15.3**	ug/kg	63.6	15.3	1	06/21/22 08:15	06/22/22 23:27	630-20-6	
1,1,2,2-Tetrachloroethane	**<23.0**	ug/kg	63.6	23.0	1	06/21/22 08:15	06/22/22 23:27	79-34-5	
Tetrachloroethene	**<24.7**	ug/kg	63.6	24.7	1	06/21/22 08:15	06/22/22 23:27	127-18-4	
Toluene	**<16.0**	ug/kg	63.6	16.0	1	06/21/22 08:15	06/22/22 23:27	108-88-3	
1,2,3-Trichlorobenzene	**<70.8**	ug/kg	318	70.8	1	06/21/22 08:15	06/22/22 23:27	87-61-6	
1,2,4-Trichlorobenzene	**<52.4**	ug/kg	318	52.4	1	06/21/22 08:15	06/22/22 23:27	120-82-1	
1,1,1-Trichloroethane	**<16.3**	ug/kg	63.6	16.3	1	06/21/22 08:15	06/22/22 23:27	71-55-6	
1,1,2-Trichloroethane	**<23.1**	ug/kg	63.6	23.1	1	06/21/22 08:15	06/22/22 23:27	79-00-5	
Trichloroethene	**<23.8**	ug/kg	63.6	23.8	1	06/21/22 08:15	06/22/22 23:27	79-01-6	
Trichlorofluoromethane	**<18.4**	ug/kg	63.6	18.4	1	06/21/22 08:15	06/22/22 23:27	75-69-4	
1,2,3-Trichloropropane	**<30.9**	ug/kg	63.6	30.9	1	06/21/22 08:15	06/22/22 23:27	96-18-4	
1,2,4-Trimethylbenzene	**<18.9**	ug/kg	63.6	18.9	1	06/21/22 08:15	06/22/22 23:27	95-63-6	
1,3,5-Trimethylbenzene	**<20.5**	ug/kg	63.6	20.5	1	06/21/22 08:15	06/22/22 23:27	108-67-8	
Vinyl chloride	**<12.8**	ug/kg	63.6	12.8	1	06/21/22 08:15	06/22/22 23:27	75-01-4	
Xylene (Total)	**<45.9**	ug/kg	191	45.9	1	06/21/22 08:15	06/22/22 23:27	1330-20-7	
m&p-Xylene	**<26.8**	ug/kg	127	26.8	1	06/21/22 08:15	06/22/22 23:27	179601-23-1	
o-Xylene	**<19.1**	ug/kg	63.6	19.1	1	06/21/22 08:15	06/22/22 23:27	95-47-6	
Surrogates									
Toluene-d8 (S)	127	%	69-153		1	06/21/22 08:15	06/22/22 23:27	2037-26-5	
4-Bromofluorobenzene (S)	115	%	68-156		1	06/21/22 08:15	06/22/22 23:27	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	71-161		1	06/21/22 08:15	06/22/22 23:27	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**12.0**	%	0.10	0.10	1		06/20/22 11:06		

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(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-12_(1.5-3.5) **Lab ID: 40246796014** Collected: 06/15/22 09:00 Received: 06/17/22 14:05 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)	**<16.4**	ug/kg	53.9	16.4	1	06/23/22 05:20	06/23/22 14:35	12674-11-2	
PCB-1221 (Aroclor 1221)	**<16.4**	ug/kg	53.9	16.4	1	06/23/22 05:20	06/23/22 14:35	11104-28-2	
PCB-1232 (Aroclor 1232)	**<16.4**	ug/kg	53.9	16.4	1	06/23/22 05:20	06/23/22 14:35	11141-16-5	
PCB-1242 (Aroclor 1242)	**<16.4**	ug/kg	53.9	16.4	1	06/23/22 05:20	06/23/22 14:35	53469-21-9	
PCB-1248 (Aroclor 1248)	**<16.4**	ug/kg	53.9	16.4	1	06/23/22 05:20	06/23/22 14:35	12672-29-6	
PCB-1254 (Aroclor 1254)	**18.5J**	ug/kg	53.9	16.4	1	06/23/22 05:20	06/23/22 14:35	11097-69-1	
PCB-1260 (Aroclor 1260)	**18.3J**	ug/kg	53.9	16.4	1	06/23/22 05:20	06/23/22 14:35	11096-82-5	
PCB, Total	**36.8J**	ug/kg	53.9	16.4	1	06/23/22 05:20	06/23/22 14:35	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	50-99		1	06/23/22 05:20	06/23/22 14:35	877-09-8	
Decachlorobiphenyl (S)	80	%	38-95		1	06/23/22 05:20	06/23/22 14:35	2051-24-3	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Arsenic	**2.3J**	mg/kg	2.7	1.6	1	06/21/22 06:58	06/21/22 20:31	7440-38-2	
Barium	**62.5**	mg/kg	0.53	0.16	1	06/21/22 06:58	06/21/22 20:31	7440-39-3	
Cadmium	**0.24J**	mg/kg	0.53	0.14	1	06/21/22 06:58	06/21/22 20:31	7440-43-9	
Chromium	**15.9**	mg/kg	1.1	0.29	1	06/21/22 06:58	06/21/22 20:31	7440-47-3	
Lead	**19.6**	mg/kg	2.1	0.64	1	06/21/22 06:58	06/21/22 20:31	7439-92-1	
Selenium	**<1.4**	mg/kg	4.2	1.4	1	06/21/22 06:58	06/21/22 20:31	7782-49-2	
Silver	**<0.33**	mg/kg	1.1	0.33	1	06/21/22 06:58	06/21/22 20:31	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.019J**	mg/kg	0.036	0.010	1	06/24/22 08:09	06/27/22 08:18	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**4.1J**	ug/kg	17.9	2.3	1	06/23/22 07:45	06/23/22 16:32	83-32-9	
Acenaphthylene	**5.9J**	ug/kg	17.9	2.3	1	06/23/22 07:45	06/23/22 16:32	208-96-8	
Anthracene	**8.9J**	ug/kg	17.9	2.2	1	06/23/22 07:45	06/23/22 16:32	120-12-7	
Benzo(a)anthracene	**49.2**	ug/kg	17.9	2.3	1	06/23/22 07:45	06/23/22 16:32	56-55-3	
Benzo(a)pyrene	**60.7**	ug/kg	17.9	2.0	1	06/23/22 07:45	06/23/22 16:32	50-32-8	
Benzo(b)fluoranthene	**94.1**	ug/kg	17.9	2.5	1	06/23/22 07:45	06/23/22 16:32	205-99-2	
Benzo(g,h,i)perylene	**29.6**	ug/kg	17.9	3.1	1	06/23/22 07:45	06/23/22 16:32	191-24-2	
Benzo(k)fluoranthene	**45.5**	ug/kg	17.9	2.3	1	06/23/22 07:45	06/23/22 16:32	207-08-9	
Chrysene	**61.3**	ug/kg	17.9	3.4	1	06/23/22 07:45	06/23/22 16:32	218-01-9	
Dibenz(a,h)anthracene	**7.5J**	ug/kg	17.9	2.5	1	06/23/22 07:45	06/23/22 16:32	53-70-3	
Fluoranthene	**84.9**	ug/kg	17.9	2.1	1	06/23/22 07:45	06/23/22 16:32	206-44-0	
Fluorene	**4.9J**	ug/kg	17.9	2.1	1	06/23/22 07:45	06/23/22 16:32	86-73-7	
Indeno(1,2,3-cd)pyrene	**18.6**	ug/kg	17.9	3.7	1	06/23/22 07:45	06/23/22 16:32	193-39-5	
1-Methylnaphthalene	**20.8**	ug/kg	17.9	2.6	1	06/23/22 07:45	06/23/22 16:32	90-12-0	
2-Methylnaphthalene	**34.7**	ug/kg	17.9	2.6	1	06/23/22 07:45	06/23/22 16:32	91-57-6	
Naphthalene	**21.7**	ug/kg	17.9	1.7	1	06/23/22 07:45	06/23/22 16:32	91-20-3	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-12_(1.5-3.5) **Lab ID: 40246796014** Collected: 06/15/22 09:00 Received: 06/17/22 14:05 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	**48.7**	ug/kg	17.9	2.1	1	06/23/22 07:45	06/23/22 16:32	85-01-8	
Pyrene	**78.9**	ug/kg	17.9	2.6	1	06/23/22 07:45	06/23/22 16:32	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%	41-98		1	06/23/22 07:45	06/23/22 16:32	321-60-8	
Terphenyl-d14 (S)	62	%	37-106		1	06/23/22 07:45	06/23/22 16:32	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	22.9	13.6	1	06/21/22 08:15	06/22/22 19:33	71-43-2	
Bromobenzene	**<22.4**	ug/kg	57.3	22.4	1	06/21/22 08:15	06/22/22 19:33	108-86-1	
Bromochloromethane	**<15.7**	ug/kg	57.3	15.7	1	06/21/22 08:15	06/22/22 19:33	74-97-5	
Bromodichloromethane	**<13.6**	ug/kg	57.3	13.6	1	06/21/22 08:15	06/22/22 19:33	75-27-4	
Bromoform	**<252**	ug/kg	287	252	1	06/21/22 08:15	06/22/22 19:33	75-25-2	
Bromomethane	**<80.4**	ug/kg	287	80.4	1	06/21/22 08:15	06/22/22 19:33	74-83-9	
n-Butylbenzene	**<26.3**	ug/kg	57.3	26.3	1	06/21/22 08:15	06/22/22 19:33	104-51-8	
sec-Butylbenzene	**<14.0**	ug/kg	57.3	14.0	1	06/21/22 08:15	06/22/22 19:33	135-98-8	
tert-Butylbenzene	**<18.0**	ug/kg	57.3	18.0	1	06/21/22 08:15	06/22/22 19:33	98-06-6	
Carbon tetrachloride	**<12.6**	ug/kg	57.3	12.6	1	06/21/22 08:15	06/22/22 19:33	56-23-5	
Chlorobenzene	**<6.9**	ug/kg	57.3	6.9	1	06/21/22 08:15	06/22/22 19:33	108-90-7	
Chloroethane	**<24.2**	ug/kg	287	24.2	1	06/21/22 08:15	06/22/22 19:33	75-00-3	
Chloroform	**<41.0**	ug/kg	287	41.0	1	06/21/22 08:15	06/22/22 19:33	67-66-3	
Chloromethane	**<21.8**	ug/kg	57.3	21.8	1	06/21/22 08:15	06/22/22 19:33	74-87-3	
2-Chlorotoluene	**<18.6**	ug/kg	57.3	18.6	1	06/21/22 08:15	06/22/22 19:33	95-49-8	
4-Chlorotoluene	**<21.8**	ug/kg	57.3	21.8	1	06/21/22 08:15	06/22/22 19:33	106-43-4	
1,2-Dibromo-3-chloropropane	**<44.5**	ug/kg	287	44.5	1	06/21/22 08:15	06/22/22 19:33	96-12-8	
Dibromochloromethane	**<196**	ug/kg	287	196	1	06/21/22 08:15	06/22/22 19:33	124-48-1	
1,2-Dibromoethane (EDB)	**<15.7**	ug/kg	57.3	15.7	1	06/21/22 08:15	06/22/22 19:33	106-93-4	
Dibromomethane	**<17.0**	ug/kg	57.3	17.0	1	06/21/22 08:15	06/22/22 19:33	74-95-3	
1,2-Dichlorobenzene	**<17.8**	ug/kg	57.3	17.8	1	06/21/22 08:15	06/22/22 19:33	95-50-1	
1,3-Dichlorobenzene	**<15.7**	ug/kg	57.3	15.7	1	06/21/22 08:15	06/22/22 19:33	541-73-1	
1,4-Dichlorobenzene	**<15.7**	ug/kg	57.3	15.7	1	06/21/22 08:15	06/22/22 19:33	106-46-7	
Dichlorodifluoromethane	**<24.6**	ug/kg	57.3	24.6	1	06/21/22 08:15	06/22/22 19:33	75-71-8	
1,1-Dichloroethane	**<14.7**	ug/kg	57.3	14.7	1	06/21/22 08:15	06/22/22 19:33	75-34-3	
1,2-Dichloroethane	**<13.2**	ug/kg	57.3	13.2	1	06/21/22 08:15	06/22/22 19:33	107-06-2	
1,1-Dichloroethene	**<19.0**	ug/kg	57.3	19.0	1	06/21/22 08:15	06/22/22 19:33	75-35-4	
cis-1,2-Dichloroethene	**<12.3**	ug/kg	57.3	12.3	1	06/21/22 08:15	06/22/22 19:33	156-59-2	
trans-1,2-Dichloroethene	**<12.4**	ug/kg	57.3	12.4	1	06/21/22 08:15	06/22/22 19:33	156-60-5	
1,2-Dichloropropane	**<13.6**	ug/kg	57.3	13.6	1	06/21/22 08:15	06/22/22 19:33	78-87-5	
1,3-Dichloropropane	**<12.5**	ug/kg	57.3	12.5	1	06/21/22 08:15	06/22/22 19:33	142-28-9	
2,2-Dichloropropane	**<15.5**	ug/kg	57.3	15.5	1	06/21/22 08:15	06/22/22 19:33	594-20-7	
1,1-Dichloropropene	**<18.6**	ug/kg	57.3	18.6	1	06/21/22 08:15	06/22/22 19:33	563-58-6	
cis-1,3-Dichloropropene	**<37.8**	ug/kg	287	37.8	1	06/21/22 08:15	06/22/22 19:33	10061-01-5	
trans-1,3-Dichloropropene	**<164**	ug/kg	287	164	1	06/21/22 08:15	06/22/22 19:33	10061-02-6	
Diisopropyl ether	**<14.2**	ug/kg	57.3	14.2	1	06/21/22 08:15	06/22/22 19:33	108-20-3	

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-12_(1.5-3.5) **Lab ID: 40246796014** Collected: 06/15/22 09:00 Received: 06/17/22 14:05 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	**<13.6**	ug/kg	57.3	13.6	1	06/21/22 08:15	06/22/22 19:33	100-41-4	
Hexachloro-1,3-butadiene	**<114**	ug/kg	287	114	1	06/21/22 08:15	06/22/22 19:33	87-68-3	
Isopropylbenzene (Cumene)	**<15.5**	ug/kg	57.3	15.5	1	06/21/22 08:15	06/22/22 19:33	98-82-8	
p-Isopropyltoluene	**<17.4**	ug/kg	57.3	17.4	1	06/21/22 08:15	06/22/22 19:33	99-87-6	
Methylene Chloride	**<15.9**	ug/kg	57.3	15.9	1	06/21/22 08:15	06/22/22 19:33	75-09-2	
Methyl-tert-butyl ether	**<16.9**	ug/kg	57.3	16.9	1	06/21/22 08:15	06/22/22 19:33	1634-04-4	
Naphthalene	**<17.9**	ug/kg	287	17.9	1	06/21/22 08:15	06/22/22 19:33	91-20-3	
n-Propylbenzene	**<13.8**	ug/kg	57.3	13.8	1	06/21/22 08:15	06/22/22 19:33	103-65-1	
Styrene	**<14.7**	ug/kg	57.3	14.7	1	06/21/22 08:15	06/22/22 19:33	100-42-5	
1,1,1,2-Tetrachloroethane	**<13.8**	ug/kg	57.3	13.8	1	06/21/22 08:15	06/22/22 19:33	630-20-6	
1,1,2,2-Tetrachloroethane	**<20.7**	ug/kg	57.3	20.7	1	06/21/22 08:15	06/22/22 19:33	79-34-5	
Tetrachloroethene	**<22.2**	ug/kg	57.3	22.2	1	06/21/22 08:15	06/22/22 19:33	127-18-4	
Toluene	**<14.4**	ug/kg	57.3	14.4	1	06/21/22 08:15	06/22/22 19:33	108-88-3	
1,2,3-Trichlorobenzene	**<63.8**	ug/kg	287	63.8	1	06/21/22 08:15	06/22/22 19:33	87-61-6	
1,2,4-Trichlorobenzene	**<47.2**	ug/kg	287	47.2	1	06/21/22 08:15	06/22/22 19:33	120-82-1	
1,1,1-Trichloroethane	**<14.7**	ug/kg	57.3	14.7	1	06/21/22 08:15	06/22/22 19:33	71-55-6	
1,1,2-Trichloroethane	**<20.9**	ug/kg	57.3	20.9	1	06/21/22 08:15	06/22/22 19:33	79-00-5	
Trichloroethene	**<21.4**	ug/kg	57.3	21.4	1	06/21/22 08:15	06/22/22 19:33	79-01-6	
Trichlorofluoromethane	**<16.6**	ug/kg	57.3	16.6	1	06/21/22 08:15	06/22/22 19:33	75-69-4	
1,2,3-Trichloropropane	**<27.9**	ug/kg	57.3	27.9	1	06/21/22 08:15	06/22/22 19:33	96-18-4	
1,2,4-Trimethylbenzene	**<17.1**	ug/kg	57.3	17.1	1	06/21/22 08:15	06/22/22 19:33	95-63-6	
1,3,5-Trimethylbenzene	**<18.5**	ug/kg	57.3	18.5	1	06/21/22 08:15	06/22/22 19:33	108-67-8	
Vinyl chloride	**<11.6**	ug/kg	57.3	11.6	1	06/21/22 08:15	06/22/22 19:33	75-01-4	
Xylene (Total)	**<41.4**	ug/kg	172	41.4	1	06/21/22 08:15	06/22/22 19:33	1330-20-7	
m&p-Xylene	**<24.2**	ug/kg	115	24.2	1	06/21/22 08:15	06/22/22 19:33	179601-23-1	
o-Xylene	**<17.2**	ug/kg	57.3	17.2	1	06/21/22 08:15	06/22/22 19:33	95-47-6	
Surrogates									
Toluene-d8 (S)	129	%	69-153		1	06/21/22 08:15	06/22/22 19:33	2037-26-5	
4-Bromofluorobenzene (S)	123	%	68-156		1	06/21/22 08:15	06/22/22 19:33	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	71-161		1	06/21/22 08:15	06/22/22 19:33	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**6.8**	%	0.10	0.10	1		06/20/22 11:06		

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-8_(1.5-3.5) **Lab ID: 40246796015** Collected: 06/15/22 09:50 Received: 06/17/22 14:05 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)	**<17.1**	ug/kg	56.3	17.1	1	06/23/22 05:20	06/23/22 19:43	12674-11-2	
PCB-1221 (Aroclor 1221)	**<17.1**	ug/kg	56.3	17.1	1	06/23/22 05:20	06/23/22 19:43	11104-28-2	
PCB-1232 (Aroclor 1232)	**<17.1**	ug/kg	56.3	17.1	1	06/23/22 05:20	06/23/22 19:43	11141-16-5	
PCB-1242 (Aroclor 1242)	**<17.1**	ug/kg	56.3	17.1	1	06/23/22 05:20	06/23/22 19:43	53469-21-9	
PCB-1248 (Aroclor 1248)	**<17.1**	ug/kg	56.3	17.1	1	06/23/22 05:20	06/23/22 19:43	12672-29-6	
PCB-1254 (Aroclor 1254)	**18.1J**	ug/kg	56.3	17.1	1	06/23/22 05:20	06/23/22 19:43	11097-69-1	
PCB-1260 (Aroclor 1260)	**17.2J**	ug/kg	56.3	17.1	1	06/23/22 05:20	06/23/22 19:43	11096-82-5	
PCB, Total	**35.3J**	ug/kg	56.3	17.1	1	06/23/22 05:20	06/23/22 19:43	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%	50-99		1	06/23/22 05:20	06/23/22 19:43	877-09-8	
Decachlorobiphenyl (S)	82	%	38-95		1	06/23/22 05:20	06/23/22 19:43	2051-24-3	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Arsenic	**3.2**	mg/kg	2.8	1.6	1	06/21/22 06:58	06/21/22 20:38	7440-38-2	
Barium	**37.4**	mg/kg	0.55	0.17	1	06/21/22 06:58	06/21/22 20:38	7440-39-3	
Cadmium	**0.40J**	mg/kg	0.55	0.15	1	06/21/22 06:58	06/21/22 20:38	7440-43-9	
Chromium	**22.3**	mg/kg	1.1	0.31	1	06/21/22 06:58	06/21/22 20:38	7440-47-3	
Lead	**27.9**	mg/kg	2.2	0.66	1	06/21/22 06:58	06/21/22 20:38	7439-92-1	
Selenium	**<1.4**	mg/kg	4.4	1.4	1	06/21/22 06:58	06/21/22 20:38	7782-49-2	
Silver	**<0.34**	mg/kg	1.1	0.34	1	06/21/22 06:58	06/21/22 20:38	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.056**	mg/kg	0.037	0.010	1	06/24/22 08:09	06/27/22 08:21	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**6.3J**	ug/kg	18.7	2.4	1	06/23/22 07:45	06/23/22 16:49	83-32-9	
Acenaphthylene	**12.9J**	ug/kg	18.7	2.4	1	06/23/22 07:45	06/23/22 16:49	208-96-8	
Anthracene	**16.5J**	ug/kg	18.7	2.3	1	06/23/22 07:45	06/23/22 16:49	120-12-7	
Benzo(a)anthracene	**77.6**	ug/kg	18.7	2.4	1	06/23/22 07:45	06/23/22 16:49	56-55-3	
Benzo(a)pyrene	**95.1**	ug/kg	18.7	2.1	1	06/23/22 07:45	06/23/22 16:49	50-32-8	
Benzo(b)fluoranthene	**150**	ug/kg	18.7	2.6	1	06/23/22 07:45	06/23/22 16:49	205-99-2	
Benzo(g,h,i)perylene	**33.7**	ug/kg	18.7	3.3	1	06/23/22 07:45	06/23/22 16:49	191-24-2	
Benzo(k)fluoranthene	**60.4**	ug/kg	18.7	2.4	1	06/23/22 07:45	06/23/22 16:49	207-08-9	
Chrysene	**99.7**	ug/kg	18.7	3.5	1	06/23/22 07:45	06/23/22 16:49	218-01-9	
Dibenz(a,h)anthracene	**11.1J**	ug/kg	18.7	2.6	1	06/23/22 07:45	06/23/22 16:49	53-70-3	
Fluoranthene	**156**	ug/kg	18.7	2.2	1	06/23/22 07:45	06/23/22 16:49	206-44-0	
Fluorene	**6.5J**	ug/kg	18.7	2.2	1	06/23/22 07:45	06/23/22 16:49	86-73-7	
Indeno(1,2,3-cd)pyrene	**30.0**	ug/kg	18.7	3.9	1	06/23/22 07:45	06/23/22 16:49	193-39-5	
1-Methylnaphthalene	**17.9J**	ug/kg	18.7	2.7	1	06/23/22 07:45	06/23/22 16:49	90-12-0	
2-Methylnaphthalene	**27.4**	ug/kg	18.7	2.7	1	06/23/22 07:45	06/23/22 16:49	91-57-6	
Naphthalene	**20.1**	ug/kg	18.7	1.8	1	06/23/22 07:45	06/23/22 16:49	91-20-3	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-8_(1.5-3.5) **Lab ID: 40246796015** Collected: 06/15/22 09:50 Received: 06/17/22 14:05 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	**66.1**	ug/kg	18.7	2.1	1	06/23/22 07:45	06/23/22 16:49	85-01-8	
Pyrene	**149**	ug/kg	18.7	2.8	1	06/23/22 07:45	06/23/22 16:49	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	62	%	41-98		1	06/23/22 07:45	06/23/22 16:49	321-60-8	
Terphenyl-d14 (S)	70	%	37-106		1	06/23/22 07:45	06/23/22 16:49	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay								
Benzene	**<14.8**	ug/kg	24.9	14.8	1	06/21/22 08:15	06/22/22 23:47	71-43-2	
Bromobenzene	**<24.2**	ug/kg	62.1	24.2	1	06/21/22 08:15	06/22/22 23:47	108-86-1	
Bromochloromethane	**<17.0**	ug/kg	62.1	17.0	1	06/21/22 08:15	06/22/22 23:47	74-97-5	
Bromodichloromethane	**<14.8**	ug/kg	62.1	14.8	1	06/21/22 08:15	06/22/22 23:47	75-27-4	
Bromoform	**<273**	ug/kg	311	273	1	06/21/22 08:15	06/22/22 23:47	75-25-2	
Bromomethane	**<87.1**	ug/kg	311	87.1	1	06/21/22 08:15	06/22/22 23:47	74-83-9	
n-Butylbenzene	**<28.5**	ug/kg	62.1	28.5	1	06/21/22 08:15	06/22/22 23:47	104-51-8	
sec-Butylbenzene	**<15.2**	ug/kg	62.1	15.2	1	06/21/22 08:15	06/22/22 23:47	135-98-8	
tert-Butylbenzene	**<19.5**	ug/kg	62.1	19.5	1	06/21/22 08:15	06/22/22 23:47	98-06-6	
Carbon tetrachloride	**<13.7**	ug/kg	62.1	13.7	1	06/21/22 08:15	06/22/22 23:47	56-23-5	
Chlorobenzene	**<7.4**	ug/kg	62.1	7.4	1	06/21/22 08:15	06/22/22 23:47	108-90-7	
Chloroethane	**<26.2**	ug/kg	311	26.2	1	06/21/22 08:15	06/22/22 23:47	75-00-3	
Chloroform	**<44.5**	ug/kg	311	44.5	1	06/21/22 08:15	06/22/22 23:47	67-66-3	
Chloromethane	**<23.6**	ug/kg	62.1	23.6	1	06/21/22 08:15	06/22/22 23:47	74-87-3	
2-Chlorotoluene	**<20.1**	ug/kg	62.1	20.1	1	06/21/22 08:15	06/22/22 23:47	95-49-8	
4-Chlorotoluene	**<23.6**	ug/kg	62.1	23.6	1	06/21/22 08:15	06/22/22 23:47	106-43-4	
1,2-Dibromo-3-chloropropane	**<48.2**	ug/kg	311	48.2	1	06/21/22 08:15	06/22/22 23:47	96-12-8	
Dibromochloromethane	**<212**	ug/kg	311	212	1	06/21/22 08:15	06/22/22 23:47	124-48-1	
1,2-Dibromoethane (EDB)	**<17.0**	ug/kg	62.1	17.0	1	06/21/22 08:15	06/22/22 23:47	106-93-4	
Dibromomethane	**<18.4**	ug/kg	62.1	18.4	1	06/21/22 08:15	06/22/22 23:47	74-95-3	
1,2-Dichlorobenzene	**<19.3**	ug/kg	62.1	19.3	1	06/21/22 08:15	06/22/22 23:47	95-50-1	
1,3-Dichlorobenzene	**<17.0**	ug/kg	62.1	17.0	1	06/21/22 08:15	06/22/22 23:47	541-73-1	
1,4-Dichlorobenzene	**<17.0**	ug/kg	62.1	17.0	1	06/21/22 08:15	06/22/22 23:47	106-46-7	
Dichlorodifluoromethane	**<26.7**	ug/kg	62.1	26.7	1	06/21/22 08:15	06/22/22 23:47	75-71-8	
1,1-Dichloroethane	**<15.9**	ug/kg	62.1	15.9	1	06/21/22 08:15	06/22/22 23:47	75-34-3	
1,2-Dichloroethane	**<14.3**	ug/kg	62.1	14.3	1	06/21/22 08:15	06/22/22 23:47	107-06-2	
1,1-Dichloroethene	**<20.6**	ug/kg	62.1	20.6	1	06/21/22 08:15	06/22/22 23:47	75-35-4	
cis-1,2-Dichloroethene	**<13.3**	ug/kg	62.1	13.3	1	06/21/22 08:15	06/22/22 23:47	156-59-2	
trans-1,2-Dichloroethene	**<13.4**	ug/kg	62.1	13.4	1	06/21/22 08:15	06/22/22 23:47	156-60-5	
1,2-Dichloropropane	**<14.8**	ug/kg	62.1	14.8	1	06/21/22 08:15	06/22/22 23:47	78-87-5	
1,3-Dichloropropane	**<13.5**	ug/kg	62.1	13.5	1	06/21/22 08:15	06/22/22 23:47	142-28-9	
2,2-Dichloropropane	**<16.8**	ug/kg	62.1	16.8	1	06/21/22 08:15	06/22/22 23:47	594-20-7	
1,1-Dichloropropene	**<20.1**	ug/kg	62.1	20.1	1	06/21/22 08:15	06/22/22 23:47	563-58-6	
cis-1,3-Dichloropropene	**<41.0**	ug/kg	311	41.0	1	06/21/22 08:15	06/22/22 23:47	10061-01-5	
trans-1,3-Dichloropropene	**<178**	ug/kg	311	178	1	06/21/22 08:15	06/22/22 23:47	10061-02-6	
Diisopropyl ether	**<15.4**	ug/kg	62.1	15.4	1	06/21/22 08:15	06/22/22 23:47	108-20-3	

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-8_(1.5-3.5) **Lab ID: 40246796015** Collected: 06/15/22 09:50 Received: 06/17/22 14:05 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	**<14.8**	ug/kg	62.1	14.8	1	06/21/22 08:15	06/22/22 23:47	100-41-4	
Hexachloro-1,3-butadiene	**<124**	ug/kg	311	124	1	06/21/22 08:15	06/22/22 23:47	87-68-3	
Isopropylbenzene (Cumene)	**<16.8**	ug/kg	62.1	16.8	1	06/21/22 08:15	06/22/22 23:47	98-82-8	
p-Isopropyltoluene	**<18.9**	ug/kg	62.1	18.9	1	06/21/22 08:15	06/22/22 23:47	99-87-6	
Methylene Chloride	**<17.3**	ug/kg	62.1	17.3	1	06/21/22 08:15	06/22/22 23:47	75-09-2	
Methyl-tert-butyl ether	**<18.3**	ug/kg	62.1	18.3	1	06/21/22 08:15	06/22/22 23:47	1634-04-4	
Naphthalene	**251J**	ug/kg	311	19.4	1	06/21/22 08:15	06/22/22 23:47	91-20-3	
n-Propylbenzene	**<14.9**	ug/kg	62.1	14.9	1	06/21/22 08:15	06/22/22 23:47	103-65-1	
Styrene	**<15.9**	ug/kg	62.1	15.9	1	06/21/22 08:15	06/22/22 23:47	100-42-5	
1,1,1,2-Tetrachloroethane	**<14.9**	ug/kg	62.1	14.9	1	06/21/22 08:15	06/22/22 23:47	630-20-6	
1,1,2,2-Tetrachloroethane	**<22.5**	ug/kg	62.1	22.5	1	06/21/22 08:15	06/22/22 23:47	79-34-5	
Tetrachloroethene	**<24.1**	ug/kg	62.1	24.1	1	06/21/22 08:15	06/22/22 23:47	127-18-4	
Toluene	**<15.7**	ug/kg	62.1	15.7	1	06/21/22 08:15	06/22/22 23:47	108-88-3	
1,2,3-Trichlorobenzene	**<69.2**	ug/kg	311	69.2	1	06/21/22 08:15	06/22/22 23:47	87-61-6	
1,2,4-Trichlorobenzene	**<51.2**	ug/kg	311	51.2	1	06/21/22 08:15	06/22/22 23:47	120-82-1	
1,1,1-Trichloroethane	**<15.9**	ug/kg	62.1	15.9	1	06/21/22 08:15	06/22/22 23:47	71-55-6	
1,1,2-Trichloroethane	**<22.6**	ug/kg	62.1	22.6	1	06/21/22 08:15	06/22/22 23:47	79-00-5	
Trichloroethene	**<23.2**	ug/kg	62.1	23.2	1	06/21/22 08:15	06/22/22 23:47	79-01-6	
Trichlorofluoromethane	**<18.0**	ug/kg	62.1	18.0	1	06/21/22 08:15	06/22/22 23:47	75-69-4	
1,2,3-Trichloropropane	**<30.2**	ug/kg	62.1	30.2	1	06/21/22 08:15	06/22/22 23:47	96-18-4	
1,2,4-Trimethylbenzene	**<18.5**	ug/kg	62.1	18.5	1	06/21/22 08:15	06/22/22 23:47	95-63-6	
1,3,5-Trimethylbenzene	**<20.0**	ug/kg	62.1	20.0	1	06/21/22 08:15	06/22/22 23:47	108-67-8	
Vinyl chloride	**<12.6**	ug/kg	62.1	12.6	1	06/21/22 08:15	06/22/22 23:47	75-01-4	
Xylene (Total)	**<44.9**	ug/kg	186	44.9	1	06/21/22 08:15	06/22/22 23:47	1330-20-7	
m&p-Xylene	**<26.2**	ug/kg	124	26.2	1	06/21/22 08:15	06/22/22 23:47	179601-23-1	
o-Xylene	**<18.6**	ug/kg	62.1	18.6	1	06/21/22 08:15	06/22/22 23:47	95-47-6	
Surrogates									
Toluene-d8 (S)	133	%	69-153		1	06/21/22 08:15	06/22/22 23:47	2037-26-5	
4-Bromofluorobenzene (S)	131	%	68-156		1	06/21/22 08:15	06/22/22 23:47	460-00-4	
1,2-Dichlorobenzene-d4 (S)	116	%	71-161		1	06/21/22 08:15	06/22/22 23:47	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**10.8**	%	0.10	0.10	1		06/20/22 11:06		

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-4_(1.5-3.5) **Lab ID: 40246796017** Collected: 06/15/22 11:30 Received: 06/17/22 14:05 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)	**<17.3**	ug/kg	57.0	17.3	1	06/23/22 05:20	06/23/22 12:23	12674-11-2	
PCB-1221 (Aroclor 1221)	**<17.3**	ug/kg	57.0	17.3	1	06/23/22 05:20	06/23/22 12:23	11104-28-2	
PCB-1232 (Aroclor 1232)	**<17.3**	ug/kg	57.0	17.3	1	06/23/22 05:20	06/23/22 12:23	11141-16-5	
PCB-1242 (Aroclor 1242)	**<17.3**	ug/kg	57.0	17.3	1	06/23/22 05:20	06/23/22 12:23	53469-21-9	
PCB-1248 (Aroclor 1248)	**20.1J**	ug/kg	57.0	17.3	1	06/23/22 05:20	06/23/22 12:23	12672-29-6	
PCB-1254 (Aroclor 1254)	**137**	ug/kg	57.0	17.3	1	06/23/22 05:20	06/23/22 12:23	11097-69-1	
PCB-1260 (Aroclor 1260)	**214**	ug/kg	57.0	17.3	1	06/23/22 05:20	06/23/22 12:23	11096-82-5	
PCB, Total	**371**	ug/kg	57.0	17.3	1	06/23/22 05:20	06/23/22 12:23	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	50-99		1	06/23/22 05:20	06/23/22 12:23	877-09-8	
Decachlorobiphenyl (S)	83	%	38-95		1	06/23/22 05:20	06/23/22 12:23	2051-24-3	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay								
Arsenic	**2.3J**	mg/kg	2.8	1.6	1	06/21/22 06:58	06/21/22 20:41	7440-38-2	
Barium	**46.0**	mg/kg	0.55	0.17	1	06/21/22 06:58	06/21/22 20:41	7440-39-3	
Cadmium	**0.37J**	mg/kg	0.55	0.15	1	06/21/22 06:58	06/21/22 20:41	7440-43-9	
Chromium	**11.9**	mg/kg	1.1	0.31	1	06/21/22 06:58	06/21/22 20:41	7440-47-3	
Lead	**30.0**	mg/kg	2.2	0.66	1	06/21/22 06:58	06/21/22 20:41	7439-92-1	
Selenium	**<1.4**	mg/kg	4.4	1.4	1	06/21/22 06:58	06/21/22 20:41	7782-49-2	
Silver	**0.46J**	mg/kg	1.1	0.34	1	06/21/22 06:58	06/21/22 20:41	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	**0.14**	mg/kg	0.038	0.011	1	06/24/22 08:09	06/27/22 08:23	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Green Bay								
Acenaphthene	**62.6J**	ug/kg	95.2	12.3	5	06/23/22 07:45	06/23/22 17:07	83-32-9	
Acenaphthylene	**50.4J**	ug/kg	95.2	12.0	5	06/23/22 07:45	06/23/22 17:07	208-96-8	
Anthracene	**153**	ug/kg	95.2	11.8	5	06/23/22 07:45	06/23/22 17:07	120-12-7	
Benzo(a)anthracene	**423**	ug/kg	95.2	12.3	5	06/23/22 07:45	06/23/22 17:07	56-55-3	
Benzo(a)pyrene	**411**	ug/kg	95.2	10.8	5	06/23/22 07:45	06/23/22 17:07	50-32-8	
Benzo(b)fluoranthene	**602**	ug/kg	95.2	13.2	5	06/23/22 07:45	06/23/22 17:07	205-99-2	
Benzo(g,h,i)perylene	**117**	ug/kg	95.2	16.7	5	06/23/22 07:45	06/23/22 17:07	191-24-2	
Benzo(k)fluoranthene	**247**	ug/kg	95.2	12.2	5	06/23/22 07:45	06/23/22 17:07	207-08-9	
Chrysene	**408**	ug/kg	95.2	17.9	5	06/23/22 07:45	06/23/22 17:07	218-01-9	
Dibenz(a,h)anthracene	**40.8J**	ug/kg	95.2	13.2	5	06/23/22 07:45	06/23/22 17:07	53-70-3	
Fluoranthene	**816**	ug/kg	95.2	11.3	5	06/23/22 07:45	06/23/22 17:07	206-44-0	
Fluorene	**85.9J**	ug/kg	95.2	11.4	5	06/23/22 07:45	06/23/22 17:07	86-73-7	
Indeno(1,2,3-cd)pyrene	**114**	ug/kg	95.2	19.8	5	06/23/22 07:45	06/23/22 17:07	193-39-5	
1-Methylnaphthalene	**92.3J**	ug/kg	95.2	13.9	5	06/23/22 07:45	06/23/22 17:07	90-12-0	
2-Methylnaphthalene	**135**	ug/kg	95.2	13.9	5	06/23/22 07:45	06/23/22 17:07	91-57-6	
Naphthalene	**113**	ug/kg	95.2	9.3	5	06/23/22 07:45	06/23/22 17:07	91-20-3	

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(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-4_(1.5-3.5) **Lab ID: 40246796017** Collected: 06/15/22 11:30 Received: 06/17/22 14:05 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	**564**	ug/kg	95.2	10.9	5	06/23/22 07:45	06/23/22 17:07	85-01-8	
Pyrene	**744**	ug/kg	95.2	14.0	5	06/23/22 07:45	06/23/22 17:07	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	55	%	41-98		5	06/23/22 07:45	06/23/22 17:07	321-60-8	
Terphenyl-d14 (S)	65	%	37-106		5	06/23/22 07:45	06/23/22 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	**<15.2**	ug/kg	25.6	15.2	1	06/21/22 08:15	06/23/22 00:06	71-43-2	
Bromobenzene	**<25.0**	ug/kg	64.0	25.0	1	06/21/22 08:15	06/23/22 00:06	108-86-1	
Bromochloromethane	**<17.5**	ug/kg	64.0	17.5	1	06/21/22 08:15	06/23/22 00:06	74-97-5	
Bromodichloromethane	**<15.2**	ug/kg	64.0	15.2	1	06/21/22 08:15	06/23/22 00:06	75-27-4	
Bromoform	**<282**	ug/kg	320	282	1	06/21/22 08:15	06/23/22 00:06	75-25-2	
Bromomethane	**<89.7**	ug/kg	320	89.7	1	06/21/22 08:15	06/23/22 00:06	74-83-9	
n-Butylbenzene	**<29.3**	ug/kg	64.0	29.3	1	06/21/22 08:15	06/23/22 00:06	104-51-8	
sec-Butylbenzene	**<15.6**	ug/kg	64.0	15.6	1	06/21/22 08:15	06/23/22 00:06	135-98-8	
tert-Butylbenzene	**<20.1**	ug/kg	64.0	20.1	1	06/21/22 08:15	06/23/22 00:06	98-06-6	
Carbon tetrachloride	**<14.1**	ug/kg	64.0	14.1	1	06/21/22 08:15	06/23/22 00:06	56-23-5	
Chlorobenzene	**<7.7**	ug/kg	64.0	7.7	1	06/21/22 08:15	06/23/22 00:06	108-90-7	
Chloroethane	**<27.0**	ug/kg	320	27.0	1	06/21/22 08:15	06/23/22 00:06	75-00-3	
Chloroform	**<45.8**	ug/kg	320	45.8	1	06/21/22 08:15	06/23/22 00:06	67-66-3	
Chloromethane	**<24.3**	ug/kg	64.0	24.3	1	06/21/22 08:15	06/23/22 00:06	74-87-3	
2-Chlorotoluene	**<20.7**	ug/kg	64.0	20.7	1	06/21/22 08:15	06/23/22 00:06	95-49-8	
4-Chlorotoluene	**<24.3**	ug/kg	64.0	24.3	1	06/21/22 08:15	06/23/22 00:06	106-43-4	
1,2-Dibromo-3-chloropropane	**<49.7**	ug/kg	320	49.7	1	06/21/22 08:15	06/23/22 00:06	96-12-8	
Dibromochloromethane	**<219**	ug/kg	320	219	1	06/21/22 08:15	06/23/22 00:06	124-48-1	
1,2-Dibromoethane (EDB)	**<17.5**	ug/kg	64.0	17.5	1	06/21/22 08:15	06/23/22 00:06	106-93-4	
Dibromomethane	**<18.9**	ug/kg	64.0	18.9	1	06/21/22 08:15	06/23/22 00:06	74-95-3	
1,2-Dichlorobenzene	**<19.8**	ug/kg	64.0	19.8	1	06/21/22 08:15	06/23/22 00:06	95-50-1	
1,3-Dichlorobenzene	**<17.5**	ug/kg	64.0	17.5	1	06/21/22 08:15	06/23/22 00:06	541-73-1	
1,4-Dichlorobenzene	**<17.5**	ug/kg	64.0	17.5	1	06/21/22 08:15	06/23/22 00:06	106-46-7	
Dichlorodifluoromethane	**<27.5**	ug/kg	64.0	27.5	1	06/21/22 08:15	06/23/22 00:06	75-71-8	
1,1-Dichloroethane	**<16.4**	ug/kg	64.0	16.4	1	06/21/22 08:15	06/23/22 00:06	75-34-3	
1,2-Dichloroethane	**<14.7**	ug/kg	64.0	14.7	1	06/21/22 08:15	06/23/22 00:06	107-06-2	
1,1-Dichloroethene	**<21.3**	ug/kg	64.0	21.3	1	06/21/22 08:15	06/23/22 00:06	75-35-4	
cis-1,2-Dichloroethene	**<13.7**	ug/kg	64.0	13.7	1	06/21/22 08:15	06/23/22 00:06	156-59-2	
trans-1,2-Dichloroethene	**<13.8**	ug/kg	64.0	13.8	1	06/21/22 08:15	06/23/22 00:06	156-60-5	
1,2-Dichloropropane	**<15.2**	ug/kg	64.0	15.2	1	06/21/22 08:15	06/23/22 00:06	78-87-5	
1,3-Dichloropropane	**<14.0**	ug/kg	64.0	14.0	1	06/21/22 08:15	06/23/22 00:06	142-28-9	
2,2-Dichloropropane	**<17.3**	ug/kg	64.0	17.3	1	06/21/22 08:15	06/23/22 00:06	594-20-7	
1,1-Dichloropropene	**<20.7**	ug/kg	64.0	20.7	1	06/21/22 08:15	06/23/22 00:06	563-58-6	
cis-1,3-Dichloropropene	**<42.2**	ug/kg	320	42.2	1	06/21/22 08:15	06/23/22 00:06	10061-01-5	
trans-1,3-Dichloropropene	**<183**	ug/kg	320	183	1	06/21/22 08:15	06/23/22 00:06	10061-02-6	
Diisopropyl ether	**<15.9**	ug/kg	64.0	15.9	1	06/21/22 08:15	06/23/22 00:06	108-20-3	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: MW-4_(1.5-3.5) **Lab ID: 40246796017** Collected: 06/15/22 11:30 Received: 06/17/22 14:05 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	**<15.2**	ug/kg	64.0	15.2	1	06/21/22 08:15	06/23/22 00:06	100-41-4	
Hexachloro-1,3-butadiene	**<127**	ug/kg	320	127	1	06/21/22 08:15	06/23/22 00:06	87-68-3	
Isopropylbenzene (Cumene)	**<17.3**	ug/kg	64.0	17.3	1	06/21/22 08:15	06/23/22 00:06	98-82-8	
p-Isopropyltoluene	**<19.5**	ug/kg	64.0	19.5	1	06/21/22 08:15	06/23/22 00:06	99-87-6	
Methylene Chloride	**<17.8**	ug/kg	64.0	17.8	1	06/21/22 08:15	06/23/22 00:06	75-09-2	
Methyl-tert-butyl ether	**<18.8**	ug/kg	64.0	18.8	1	06/21/22 08:15	06/23/22 00:06	1634-04-4	
Naphthalene	**41.0J**	ug/kg	320	20.0	1	06/21/22 08:15	06/23/22 00:06	91-20-3	
n-Propylbenzene	**<15.4**	ug/kg	64.0	15.4	1	06/21/22 08:15	06/23/22 00:06	103-65-1	
Styrene	**<16.4**	ug/kg	64.0	16.4	1	06/21/22 08:15	06/23/22 00:06	100-42-5	
1,1,1,2-Tetrachloroethane	**<15.4**	ug/kg	64.0	15.4	1	06/21/22 08:15	06/23/22 00:06	630-20-6	
1,1,2,2-Tetrachloroethane	**<23.2**	ug/kg	64.0	23.2	1	06/21/22 08:15	06/23/22 00:06	79-34-5	
Tetrachloroethene	**<24.8**	ug/kg	64.0	24.8	1	06/21/22 08:15	06/23/22 00:06	127-18-4	
Toluene	**<16.1**	ug/kg	64.0	16.1	1	06/21/22 08:15	06/23/22 00:06	108-88-3	
1,2,3-Trichlorobenzene	**<71.3**	ug/kg	320	71.3	1	06/21/22 08:15	06/23/22 00:06	87-61-6	
1,2,4-Trichlorobenzene	**<52.7**	ug/kg	320	52.7	1	06/21/22 08:15	06/23/22 00:06	120-82-1	
1,1,1-Trichloroethane	**<16.4**	ug/kg	64.0	16.4	1	06/21/22 08:15	06/23/22 00:06	71-55-6	
1,1,2-Trichloroethane	**<23.3**	ug/kg	64.0	23.3	1	06/21/22 08:15	06/23/22 00:06	79-00-5	
Trichloroethene	**<23.9**	ug/kg	64.0	23.9	1	06/21/22 08:15	06/23/22 00:06	79-01-6	
Trichlorofluoromethane	**<18.6**	ug/kg	64.0	18.6	1	06/21/22 08:15	06/23/22 00:06	75-69-4	
1,2,3-Trichloropropane	**<31.1**	ug/kg	64.0	31.1	1	06/21/22 08:15	06/23/22 00:06	96-18-4	
1,2,4-Trimethylbenzene	**<19.1**	ug/kg	64.0	19.1	1	06/21/22 08:15	06/23/22 00:06	95-63-6	
1,3,5-Trimethylbenzene	**<20.6**	ug/kg	64.0	20.6	1	06/21/22 08:15	06/23/22 00:06	108-67-8	
Vinyl chloride	**<12.9**	ug/kg	64.0	12.9	1	06/21/22 08:15	06/23/22 00:06	75-01-4	
Xylene (Total)	**<46.2**	ug/kg	192	46.2	1	06/21/22 08:15	06/23/22 00:06	1330-20-7	
m&p-Xylene	**<27.0**	ug/kg	128	27.0	1	06/21/22 08:15	06/23/22 00:06	179601-23-1	
o-Xylene	**<19.2**	ug/kg	64.0	19.2	1	06/21/22 08:15	06/23/22 00:06	95-47-6	
Surrogates									
Toluene-d8 (S)	144	%	69-153		1	06/21/22 08:15	06/23/22 00:06	2037-26-5	
4-Bromofluorobenzene (S)	138	%	68-156		1	06/21/22 08:15	06/23/22 00:06	460-00-4	
1,2-Dichlorobenzene-d4 (S)	121	%	71-161		1	06/21/22 08:15	06/23/22 00:06	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	**12.3**	%	0.10	0.10	1		06/20/22 11:28		

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: TRIP BLANK **Lab ID: 40246796018** Collected: 06/13/22 07:00 Received: 06/17/22 14:05 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	06/21/22 08:15	06/22/22 19:13	71-43-2	
Bromobenzene	**<19.5**	ug/kg	50.0	19.5	1	06/21/22 08:15	06/22/22 19:13	108-86-1	
Bromochloromethane	**<13.7**	ug/kg	50.0	13.7	1	06/21/22 08:15	06/22/22 19:13	74-97-5	
Bromodichloromethane	**<11.9**	ug/kg	50.0	11.9	1	06/21/22 08:15	06/22/22 19:13	75-27-4	
Bromoform	**<220**	ug/kg	250	220	1	06/21/22 08:15	06/22/22 19:13	75-25-2	
Bromomethane	**<70.1**	ug/kg	250	70.1	1	06/21/22 08:15	06/22/22 19:13	74-83-9	
n-Butylbenzene	**<22.9**	ug/kg	50.0	22.9	1	06/21/22 08:15	06/22/22 19:13	104-51-8	
sec-Butylbenzene	**<12.2**	ug/kg	50.0	12.2	1	06/21/22 08:15	06/22/22 19:13	135-98-8	
tert-Butylbenzene	**<15.7**	ug/kg	50.0	15.7	1	06/21/22 08:15	06/22/22 19:13	98-06-6	
Carbon tetrachloride	**<11.0**	ug/kg	50.0	11.0	1	06/21/22 08:15	06/22/22 19:13	56-23-5	
Chlorobenzene	**<6.0**	ug/kg	50.0	6.0	1	06/21/22 08:15	06/22/22 19:13	108-90-7	
Chloroethane	**<21.1**	ug/kg	250	21.1	1	06/21/22 08:15	06/22/22 19:13	75-00-3	
Chloroform	**<35.8**	ug/kg	250	35.8	1	06/21/22 08:15	06/22/22 19:13	67-66-3	
Chloromethane	**<19.0**	ug/kg	50.0	19.0	1	06/21/22 08:15	06/22/22 19:13	74-87-3	
2-Chlorotoluene	**<16.2**	ug/kg	50.0	16.2	1	06/21/22 08:15	06/22/22 19:13	95-49-8	
4-Chlorotoluene	**<19.0**	ug/kg	50.0	19.0	1	06/21/22 08:15	06/22/22 19:13	106-43-4	
1,2-Dibromo-3-chloropropane	**<38.8**	ug/kg	250	38.8	1	06/21/22 08:15	06/22/22 19:13	96-12-8	
Dibromochloromethane	**<171**	ug/kg	250	171	1	06/21/22 08:15	06/22/22 19:13	124-48-1	
1,2-Dibromoethane (EDB)	**<13.7**	ug/kg	50.0	13.7	1	06/21/22 08:15	06/22/22 19:13	106-93-4	
Dibromomethane	**<14.8**	ug/kg	50.0	14.8	1	06/21/22 08:15	06/22/22 19:13	74-95-3	
1,2-Dichlorobenzene	**<15.5**	ug/kg	50.0	15.5	1	06/21/22 08:15	06/22/22 19:13	95-50-1	
1,3-Dichlorobenzene	**<13.7**	ug/kg	50.0	13.7	1	06/21/22 08:15	06/22/22 19:13	541-73-1	
1,4-Dichlorobenzene	**<13.7**	ug/kg	50.0	13.7	1	06/21/22 08:15	06/22/22 19:13	106-46-7	
Dichlorodifluoromethane	**<21.5**	ug/kg	50.0	21.5	1	06/21/22 08:15	06/22/22 19:13	75-71-8	
1,1-Dichloroethane	**<12.8**	ug/kg	50.0	12.8	1	06/21/22 08:15	06/22/22 19:13	75-34-3	
1,2-Dichloroethane	**<11.5**	ug/kg	50.0	11.5	1	06/21/22 08:15	06/22/22 19:13	107-06-2	
1,1-Dichloroethene	**<16.6**	ug/kg	50.0	16.6	1	06/21/22 08:15	06/22/22 19:13	75-35-4	
cis-1,2-Dichloroethene	**<10.7**	ug/kg	50.0	10.7	1	06/21/22 08:15	06/22/22 19:13	156-59-2	
trans-1,2-Dichloroethene	**<10.8**	ug/kg	50.0	10.8	1	06/21/22 08:15	06/22/22 19:13	156-60-5	
1,2-Dichloropropane	**<11.9**	ug/kg	50.0	11.9	1	06/21/22 08:15	06/22/22 19:13	78-87-5	
1,3-Dichloropropane	**<10.9**	ug/kg	50.0	10.9	1	06/21/22 08:15	06/22/22 19:13	142-28-9	
2,2-Dichloropropane	**<13.5**	ug/kg	50.0	13.5	1	06/21/22 08:15	06/22/22 19:13	594-20-7	
1,1-Dichloropropene	**<16.2**	ug/kg	50.0	16.2	1	06/21/22 08:15	06/22/22 19:13	563-58-6	
cis-1,3-Dichloropropene	**<33.0**	ug/kg	250	33.0	1	06/21/22 08:15	06/22/22 19:13	10061-01-5	
trans-1,3-Dichloropropene	**<143**	ug/kg	250	143	1	06/21/22 08:15	06/22/22 19:13	10061-02-6	
Diisopropyl ether	**<12.4**	ug/kg	50.0	12.4	1	06/21/22 08:15	06/22/22 19:13	108-20-3	
Ethylbenzene	**<11.9**	ug/kg	50.0	11.9	1	06/21/22 08:15	06/22/22 19:13	100-41-4	
Hexachloro-1,3-butadiene	**<99.4**	ug/kg	250	99.4	1	06/21/22 08:15	06/22/22 19:13	87-68-3	
Isopropylbenzene (Cumene)	**<13.5**	ug/kg	50.0	13.5	1	06/21/22 08:15	06/22/22 19:13	98-82-8	
p-Isopropyltoluene	**<15.2**	ug/kg	50.0	15.2	1	06/21/22 08:15	06/22/22 19:13	99-87-6	
Methylene Chloride	**<13.9**	ug/kg	50.0	13.9	1	06/21/22 08:15	06/22/22 19:13	75-09-2	
Methyl-tert-butyl ether	**<14.7**	ug/kg	50.0	14.7	1	06/21/22 08:15	06/22/22 19:13	1634-04-4	
Naphthalene	**<15.6**	ug/kg	250	15.6	1	06/21/22 08:15	06/22/22 19:13	91-20-3	
n-Propylbenzene	**<12.0**	ug/kg	50.0	12.0	1	06/21/22 08:15	06/22/22 19:13	103-65-1	

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(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Sample: TRIP BLANK **Lab ID: 40246796018** Collected: 06/13/22 07:00 Received: 06/17/22 14:05 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	06/21/22 08:15	06/22/22 19:13	100-42-5	
1,1,1,2-Tetrachloroethane	**<12.0**	ug/kg	50.0	12.0	1	06/21/22 08:15	06/22/22 19:13	630-20-6	
1,1,2,2-Tetrachloroethane	**<18.1**	ug/kg	50.0	18.1	1	06/21/22 08:15	06/22/22 19:13	79-34-5	
Tetrachloroethene	**<19.4**	ug/kg	50.0	19.4	1	06/21/22 08:15	06/22/22 19:13	127-18-4	
Toluene	**<12.6**	ug/kg	50.0	12.6	1	06/21/22 08:15	06/22/22 19:13	108-88-3	
1,2,3-Trichlorobenzene	**<55.7**	ug/kg	250	55.7	1	06/21/22 08:15	06/22/22 19:13	87-61-6	
1,2,4-Trichlorobenzene	**<41.2**	ug/kg	250	41.2	1	06/21/22 08:15	06/22/22 19:13	120-82-1	
1,1,1-Trichloroethane	**<12.8**	ug/kg	50.0	12.8	1	06/21/22 08:15	06/22/22 19:13	71-55-6	
1,1,2-Trichloroethane	**<18.2**	ug/kg	50.0	18.2	1	06/21/22 08:15	06/22/22 19:13	79-00-5	
Trichloroethene	**<18.7**	ug/kg	50.0	18.7	1	06/21/22 08:15	06/22/22 19:13	79-01-6	
Trichlorofluoromethane	**<14.5**	ug/kg	50.0	14.5	1	06/21/22 08:15	06/22/22 19:13	75-69-4	
1,2,3-Trichloropropane	**<24.3**	ug/kg	50.0	24.3	1	06/21/22 08:15	06/22/22 19:13	96-18-4	
1,2,4-Trimethylbenzene	**<14.9**	ug/kg	50.0	14.9	1	06/21/22 08:15	06/22/22 19:13	95-63-6	
1,3,5-Trimethylbenzene	**<16.1**	ug/kg	50.0	16.1	1	06/21/22 08:15	06/22/22 19:13	108-67-8	
Vinyl chloride	**<10.1**	ug/kg	50.0	10.1	1	06/21/22 08:15	06/22/22 19:13	75-01-4	
Xylene (Total)	**<36.1**	ug/kg	150	36.1	1	06/21/22 08:15	06/22/22 19:13	1330-20-7	
m&p-Xylene	**<21.1**	ug/kg	100	21.1	1	06/21/22 08:15	06/22/22 19:13	179601-23-1	
o-Xylene	**<15.0**	ug/kg	50.0	15.0	1	06/21/22 08:15	06/22/22 19:13	95-47-6	
Surrogates									
Toluene-d8 (S)	110	%	69-153		1	06/21/22 08:15	06/22/22 19:13	2037-26-5	
4-Bromofluorobenzene (S)	108	%	68-156		1	06/21/22 08:15	06/22/22 19:13	460-00-4	
1,2-Dichlorobenzene-d4 (S)	93	%	71-161		1	06/21/22 08:15	06/22/22 19:13	2199-69-1	

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(920)469-2436

QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40246796

QC Batch: 419295
QC Batch Method: EPA 7471
Analysis Method: EPA 7471
Analysis Description: 7471 Mercury
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40246796001, 40246796002, 40246796003, 40246796004, 40246796005, 40246796006, 40246796007, 40246796008, 40246796009, 40246796010, 40246796011, 40246796012, 40246796013, 40246796014, 40246796015, 40246796017

METHOD BLANK: 2414518 Matrix: Solid
Associated Lab Samples: 40246796001, 40246796002, 40246796003, 40246796004, 40246796005, 40246796006, 40246796007, 40246796008, 40246796009, 40246796010, 40246796011, 40246796012, 40246796013, 40246796014, 40246796015, 40246796017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.010	0.035	06/27/22 07:34	

LABORATORY CONTROL SAMPLE: 2414519

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.83	0.81	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2414520 2414521

Parameter	Units	40246796001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.079	0.99	0.99	1.0	0.96	93	90	85-115	3	20	

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QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40246796

QC Batch: 418727
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40246796001, 40246796002, 40246796003, 40246796004, 40246796005, 40246796006, 40246796007, 40246796008, 40246796009, 40246796010, 40246796011, 40246796012, 40246796013, 40246796014, 40246796015, 40246796017

METHOD BLANK: 2411684 Matrix: Solid
Associated Lab Samples: 40246796001, 40246796002, 40246796003, 40246796004, 40246796005, 40246796006, 40246796007, 40246796008, 40246796009, 40246796010, 40246796011, 40246796012, 40246796013, 40246796014, 40246796015, 40246796017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.5	2.5	06/21/22 19:41	
Barium	mg/kg	<0.15	0.50	06/21/22 19:41	
Cadmium	mg/kg	<0.13	0.50	06/21/22 19:41	
Chromium	mg/kg	<0.28	1.0	06/21/22 19:41	
Lead	mg/kg	<0.60	2.0	06/21/22 19:41	
Selenium	mg/kg	<1.3	4.0	06/21/22 19:41	
Silver	mg/kg	<0.31	1.0	06/21/22 19:41	

LABORATORY CONTROL SAMPLE: 2411685

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	25	25.3	101	80-120	
Barium	mg/kg	25	26.2	105	80-120	
Cadmium	mg/kg	25	25.9	104	80-120	
Chromium	mg/kg	25	26.3	105	80-120	
Lead	mg/kg	25	26.6	106	80-120	
Selenium	mg/kg	25	27.1	108	80-120	
Silver	mg/kg	12.5	12.5	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2411686 2411687

Parameter	Units	40246796001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	2.0J	29.9	29.8	30.1	31.2	94	98	75-125	4	20	
Barium	mg/kg	35.2	29.9	29.8	59.1	65.1	80	100	75-125	10	20	
Cadmium	mg/kg	0.18J	29.9	29.8	30.2	30.2	100	101	75-125	0	20	
Chromium	mg/kg	9.8	29.9	29.8	42.9	44.4	111	116	75-125	3	20	
Lead	mg/kg	68.0	29.9	29.8	51.8	82.3	-54	48	75-125	45	20	M0,R1
Selenium	mg/kg	<1.6	29.9	29.8	31.4	30.6	105	102	75-125	3	20	
Silver	mg/kg	<0.37	15	14.9	14.8	15.0	98	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40246796

QC Batch: 418933
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40246796001, 40246796002, 40246796003, 40246796004, 40246796005, 40246796006, 40246796007, 40246796008, 40246796009, 40246796010, 40246796011, 40246796012, 40246796013, 40246796014, 40246796015, 40246796017, 40246796018

METHOD BLANK: 2412421
Matrix: Solid
Associated Lab Samples: 40246796001, 40246796002, 40246796003, 40246796004, 40246796005, 40246796006, 40246796007, 40246796008, 40246796009, 40246796010, 40246796011, 40246796012, 40246796013, 40246796014, 40246796015, 40246796017, 40246796018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<12.0	50.0	06/22/22 17:15	
1,1,1-Trichloroethane	ug/kg	<12.8	50.0	06/22/22 17:15	
1,1,2,2-Tetrachloroethane	ug/kg	<18.1	50.0	06/22/22 17:15	
1,1,2-Trichloroethane	ug/kg	<18.2	50.0	06/22/22 17:15	
1,1-Dichloroethane	ug/kg	<12.8	50.0	06/22/22 17:15	
1,1-Dichloroethene	ug/kg	<16.6	50.0	06/22/22 17:15	
1,1-Dichloropropene	ug/kg	<16.2	50.0	06/22/22 17:15	
1,2,3-Trichlorobenzene	ug/kg	<55.7	250	06/22/22 17:15	
1,2,3-Trichloropropane	ug/kg	<24.3	50.0	06/22/22 17:15	
1,2,4-Trichlorobenzene	ug/kg	<41.2	250	06/22/22 17:15	
1,2,4-Trimethylbenzene	ug/kg	<14.9	50.0	06/22/22 17:15	
1,2-Dibromo-3-chloropropane	ug/kg	<38.8	250	06/22/22 17:15	
1,2-Dibromoethane (EDB)	ug/kg	<13.7	50.0	06/22/22 17:15	
1,2-Dichlorobenzene	ug/kg	<15.5	50.0	06/22/22 17:15	
1,2-Dichloroethane	ug/kg	<11.5	50.0	06/22/22 17:15	
1,2-Dichloropropane	ug/kg	<11.9	50.0	06/22/22 17:15	
1,3,5-Trimethylbenzene	ug/kg	<16.1	50.0	06/22/22 17:15	
1,3-Dichlorobenzene	ug/kg	<13.7	50.0	06/22/22 17:15	
1,3-Dichloropropane	ug/kg	<10.9	50.0	06/22/22 17:15	
1,4-Dichlorobenzene	ug/kg	<13.7	50.0	06/22/22 17:15	
2,2-Dichloropropane	ug/kg	<13.5	50.0	06/22/22 17:15	
2-Chlorotoluene	ug/kg	<16.2	50.0	06/22/22 17:15	
4-Chlorotoluene	ug/kg	<19.0	50.0	06/22/22 17:15	
Benzene	ug/kg	<11.9	20.0	06/22/22 17:15	
Bromobenzene	ug/kg	<19.5	50.0	06/22/22 17:15	
Bromochloromethane	ug/kg	<13.7	50.0	06/22/22 17:15	
Bromodichloromethane	ug/kg	<11.9	50.0	06/22/22 17:15	
Bromoform	ug/kg	<220	250	06/22/22 17:15	
Bromomethane	ug/kg	<70.1	250	06/22/22 17:15	
Carbon tetrachloride	ug/kg	<11.0	50.0	06/22/22 17:15	
Chlorobenzene	ug/kg	<6.0	50.0	06/22/22 17:15	
Chloroethane	ug/kg	<21.1	250	06/22/22 17:15	
Chloroform	ug/kg	<35.8	250	06/22/22 17:15	
Chloromethane	ug/kg	<19.0	50.0	06/22/22 17:15	
cis-1,2-Dichloroethene	ug/kg	<10.7	50.0	06/22/22 17:15	
cis-1,3-Dichloropropene	ug/kg	<33.0	250	06/22/22 17:15	
Dibromochloromethane	ug/kg	<171	250	06/22/22 17:15	

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QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40246796

METHOD BLANK: 2412421 Matrix: Solid

Associated Lab Samples: 40246796001, 40246796002, 40246796003, 40246796004, 40246796005, 40246796006, 40246796007, 40246796008, 40246796009, 40246796010, 40246796011, 40246796012, 40246796013, 40246796014, 40246796015, 40246796017, 40246796018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	<14.8	50.0	06/22/22 17:15	
Dichlorodifluoromethane	ug/kg	<21.5	50.0	06/22/22 17:15	
Diisopropyl ether	ug/kg	<12.4	50.0	06/22/22 17:15	
Ethylbenzene	ug/kg	<11.9	50.0	06/22/22 17:15	
Hexachloro-1,3-butadiene	ug/kg	<99.4	250	06/22/22 17:15	
Isopropylbenzene (Cumene)	ug/kg	<13.5	50.0	06/22/22 17:15	
m&p-Xylene	ug/kg	<21.1	100	06/22/22 17:15	
Methyl-tert-butyl ether	ug/kg	<14.7	50.0	06/22/22 17:15	
Methylene Chloride	ug/kg	<13.9	50.0	06/22/22 17:15	
n-Butylbenzene	ug/kg	<22.9	50.0	06/22/22 17:15	
n-Propylbenzene	ug/kg	<12.0	50.0	06/22/22 17:15	
Naphthalene	ug/kg	<15.6	250	06/22/22 17:15	
o-Xylene	ug/kg	<15.0	50.0	06/22/22 17:15	
p-Isopropyltoluene	ug/kg	<15.2	50.0	06/22/22 17:15	
sec-Butylbenzene	ug/kg	<12.2	50.0	06/22/22 17:15	
Styrene	ug/kg	<12.8	50.0	06/22/22 17:15	
tert-Butylbenzene	ug/kg	<15.7	50.0	06/22/22 17:15	
Tetrachloroethene	ug/kg	<19.4	50.0	06/22/22 17:15	
Toluene	ug/kg	<12.6	50.0	06/22/22 17:15	
trans-1,2-Dichloroethene	ug/kg	<10.8	50.0	06/22/22 17:15	
trans-1,3-Dichloropropene	ug/kg	<143	250	06/22/22 17:15	
Trichloroethene	ug/kg	<18.7	50.0	06/22/22 17:15	
Trichlorofluoromethane	ug/kg	<14.5	50.0	06/22/22 17:15	
Vinyl chloride	ug/kg	<10.1	50.0	06/22/22 17:15	
Xylene (Total)	ug/kg	<36.1	150	06/22/22 17:15	
1,2-Dichlorobenzene-d4 (S)	%	92	71-161	06/22/22 17:15	
4-Bromofluorobenzene (S)	%	106	68-156	06/22/22 17:15	
Toluene-d8 (S)	%	114	69-153	06/22/22 17:15	

LABORATORY CONTROL SAMPLE: 2412422

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2620	105	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2610	104	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2480	99	70-130	
1,1-Dichloroethane	ug/kg	2500	2870	115	70-130	
1,1-Dichloroethene	ug/kg	2500	2630	105	77-120	
1,2,4-Trichlorobenzene	ug/kg	2500	2320	93	67-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2360	94	70-130	
1,2-Dibromoethane (EDB)	ug/kg	2500	2570	103	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2560	102	70-130	
1,2-Dichloroethane	ug/kg	2500	2550	102	70-130	

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QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40246796

LABORATORY CONTROL SAMPLE: 2412422

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/kg	2500	2670	107	80-123	
1,3-Dichlorobenzene	ug/kg	2500	2650	106	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2530	101	70-130	
Benzene	ug/kg	2500	2680	107	70-130	
Bromodichloromethane	ug/kg	2500	2550	102	70-130	
Bromoform	ug/kg	2500	2080	83	60-130	
Bromomethane	ug/kg	2500	2350	94	45-153	
Carbon tetrachloride	ug/kg	2500	2710	109	70-130	
Chlorobenzene	ug/kg	2500	2540	102	70-130	
Chloroethane	ug/kg	2500	2530	101	55-160	
Chloroform	ug/kg	2500	2500	100	80-120	
Chloromethane	ug/kg	2500	2540	102	47-130	
cis-1,2-Dichloroethene	ug/kg	2500	2430	97	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2550	102	70-130	
Dibromochloromethane	ug/kg	2500	2220	89	70-130	
Dichlorodifluoromethane	ug/kg	2500	1860	74	16-83	
Ethylbenzene	ug/kg	2500	2540	101	80-120	
Isopropylbenzene (Cumene)	ug/kg	2500	2610	105	70-130	
m&p-Xylene	ug/kg	5000	4990	100	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2430	97	65-130	
Methylene Chloride	ug/kg	2500	2500	100	70-130	
o-Xylene	ug/kg	2500	2520	101	70-130	
Styrene	ug/kg	2500	2540	102	70-130	
Tetrachloroethene	ug/kg	2500	2510	100	70-130	
Toluene	ug/kg	2500	2540	102	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2700	108	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2320	93	70-130	
Trichloroethene	ug/kg	2500	2640	106	70-130	
Trichlorofluoromethane	ug/kg	2500	2300	92	70-130	
Vinyl chloride	ug/kg	2500	2240	90	59-114	
Xylene (Total)	ug/kg	7500	7510	100	70-130	
1,2-Dichlorobenzene-d4 (S)	%			91	71-161	
4-Bromofluorobenzene (S)	%			111	68-156	
Toluene-d8 (S)	%			115	69-153	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2412423 2412424

Parameter	Units	40246796014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<14.7	1150	1150	1030	968	90	84	69-130	6	20	
1,1,2,2-Tetrachloroethane	ug/kg	<20.7	1150	1150	1230	1220	108	106	70-130	2	20	
1,1,2-Trichloroethane	ug/kg	<20.9	1150	1150	1160	1120	102	98	70-130	4	20	
1,1-Dichloroethane	ug/kg	<14.7	1150	1150	1170	1100	102	96	70-130	7	20	
1,1-Dichloroethene	ug/kg	<19.0	1150	1150	997	859	87	75	55-120	15	22	
1,2,4-Trichlorobenzene	ug/kg	<47.2	1150	1150	1470	1330	128	116	67-130	9	20	

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QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40246796

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2412423 2412424

Parameter	Units	40246796014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/kg	<44.5	1150	1150	1130	1140	98	99	70-130	1	22	
1,2-Dibromoethane (EDB)	ug/kg	<15.7	1150	1150	1150	1120	101	98	70-130	3	20	
1,2-Dichlorobenzene	ug/kg	<17.8	1150	1150	1280	1210	112	105	70-130	6	20	
1,2-Dichloroethane	ug/kg	<13.2	1150	1150	1150	1160	101	101	70-130	0	20	
1,2-Dichloropropane	ug/kg	<13.6	1150	1150	1210	1170	106	102	80-123	4	20	
1,3-Dichlorobenzene	ug/kg	<15.7	1150	1150	1310	1240	114	108	70-130	6	20	
1,4-Dichlorobenzene	ug/kg	<15.7	1150	1150	1230	1140	107	99	70-130	8	20	
Benzene	ug/kg	<13.6	1150	1150	1170	1060	102	93	70-130	9	20	
Bromodichloromethane	ug/kg	<13.6	1150	1150	1070	1050	94	91	70-130	2	20	
Bromoform	ug/kg	<252	1150	1150	1020	995	89	87	60-130	2	20	
Bromomethane	ug/kg	<80.4	1150	1150	1140	989	100	86	38-153	14	20	
Carbon tetrachloride	ug/kg	<12.6	1150	1150	992	877	87	76	62-130	12	20	
Chlorobenzene	ug/kg	<6.9	1150	1150	1160	1080	102	94	70-130	7	20	
Chloroethane	ug/kg	<24.2	1150	1150	1090	932	96	81	53-160	16	24	
Chloroform	ug/kg	<41.0	1150	1150	1110	1050	97	92	80-120	5	20	
Chloromethane	ug/kg	<21.8	1150	1150	1120	1020	98	89	10-130	9	20	
cis-1,2-Dichloroethene	ug/kg	<12.3	1150	1150	1110	1070	96	93	70-130	3	20	
cis-1,3-Dichloropropene	ug/kg	<37.8	1150	1150	1070	1040	93	91	70-130	3	20	
Dibromochloromethane	ug/kg	<196	1150	1150	1100	1070	96	94	70-130	3	20	
Dichlorodifluoromethane	ug/kg	<24.6	1150	1150	685	595	60	52	10-83	14	31	
Ethylbenzene	ug/kg	<13.6	1150	1150	1120	1000	98	88	80-120	11	20	
Isopropylbenzene (Cumene)	ug/kg	<15.5	1150	1150	1150	977	100	85	70-130	16	20	
m&p-Xylene	ug/kg	<24.2	2300	2300	2240	2020	98	88	70-130	10	20	
Methyl-tert-butyl ether	ug/kg	<16.9	1150	1150	1110	1120	97	98	66-130	2	20	
Methylene Chloride	ug/kg	<15.9	1150	1150	1180	1100	103	96	70-130	8	20	
o-Xylene	ug/kg	<17.2	1150	1150	1180	1050	103	92	70-130	12	20	
Styrene	ug/kg	<14.7	1150	1150	1130	1040	99	90	70-130	9	20	
Tetrachloroethene	ug/kg	<22.2	1150	1150	1110	957	97	84	69-130	15	20	
Toluene	ug/kg	<14.4	1150	1150	1150	1040	100	91	79-120	10	20	
trans-1,2-Dichloroethene	ug/kg	<12.4	1150	1150	1130	1050	99	92	70-130	7	20	
trans-1,3-Dichloropropene	ug/kg	<164	1150	1150	1050	1040	92	90	69-130	1	20	
Trichloroethene	ug/kg	<21.4	1150	1150	1160	1060	101	92	70-130	9	20	
Trichlorofluoromethane	ug/kg	<16.6	1150	1150	854	731	75	64	50-130	16	22	
Vinyl chloride	ug/kg	<11.6	1150	1150	944	820	82	72	26-114	14	20	
Xylene (Total)	ug/kg	<41.4	3430	3430	3430	3070	100	89	70-130	11	20	
1,2-Dichlorobenzene-d4 (S)	%						111	107	71-161			
4-Bromofluorobenzene (S)	%						130	125	68-156			
Toluene-d8 (S)	%						134	126	69-153			

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QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40246796

QC Batch: 418949
QC Batch Method: EPA 3541
Analysis Method: EPA 8082A
Analysis Description: 8082 GCS PCB
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40246796001, 40246796002, 40246796003, 40246796004, 40246796005, 40246796006, 40246796007, 40246796008, 40246796009

METHOD BLANK: 2412485 Matrix: Solid
Associated Lab Samples: 40246796001, 40246796002, 40246796003, 40246796004, 40246796005, 40246796006, 40246796007, 40246796008, 40246796009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<15.2	50.0	06/22/22 10:56	
PCB-1221 (Aroclor 1221)	ug/kg	<15.2	50.0	06/22/22 10:56	
PCB-1232 (Aroclor 1232)	ug/kg	<15.2	50.0	06/22/22 10:56	
PCB-1242 (Aroclor 1242)	ug/kg	<15.2	50.0	06/22/22 10:56	
PCB-1248 (Aroclor 1248)	ug/kg	<15.2	50.0	06/22/22 10:56	
PCB-1254 (Aroclor 1254)	ug/kg	<15.2	50.0	06/22/22 10:56	
PCB-1260 (Aroclor 1260)	ug/kg	<15.2	50.0	06/22/22 10:56	
Decachlorobiphenyl (S)	%	91	38-95	06/22/22 10:56	
Tetrachloro-m-xylene (S)	%	93	50-99	06/22/22 10:56	

LABORATORY CONTROL SAMPLE: 2412486

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	454	91	71-104	
Decachlorobiphenyl (S)	%			91	38-95	
Tetrachloro-m-xylene (S)	%			89	50-99	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2412487 2412488

Parameter	Units	40246796003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<15.8			<15.8	<15.8					20	
PCB-1221 (Aroclor 1221)	ug/kg	<15.8			<15.8	<15.8					20	
PCB-1232 (Aroclor 1232)	ug/kg	<15.8			<15.8	<15.8					20	
PCB-1242 (Aroclor 1242)	ug/kg	<15.8			<15.8	<15.8					20	
PCB-1248 (Aroclor 1248)	ug/kg	<15.8			<15.8	<15.8					20	
PCB-1254 (Aroclor 1254)	ug/kg	<15.8			<15.8	<15.8					20	
PCB-1260 (Aroclor 1260)	ug/kg	<15.8	518	520	449	458	87	88	42-109	2	20	
Decachlorobiphenyl (S)	%						86	89	38-95			
Tetrachloro-m-xylene (S)	%						83	88	50-99			

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QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40246796

QC Batch: 419154
QC Batch Method: EPA 3541
Analysis Method: EPA 8082A
Analysis Description: 8082 GCS PCB
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40246796010, 40246796011, 40246796012, 40246796013, 40246796014, 40246796015, 40246796017

METHOD BLANK: 2413649 Matrix: Solid
Associated Lab Samples: 40246796010, 40246796011, 40246796012, 40246796013, 40246796014, 40246796015, 40246796017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<15.2	50.0	06/23/22 10:51	
PCB-1221 (Aroclor 1221)	ug/kg	<15.2	50.0	06/23/22 10:51	
PCB-1232 (Aroclor 1232)	ug/kg	<15.2	50.0	06/23/22 10:51	
PCB-1242 (Aroclor 1242)	ug/kg	<15.2	50.0	06/23/22 10:51	
PCB-1248 (Aroclor 1248)	ug/kg	<15.2	50.0	06/23/22 10:51	
PCB-1254 (Aroclor 1254)	ug/kg	<15.2	50.0	06/23/22 10:51	
PCB-1260 (Aroclor 1260)	ug/kg	<15.2	50.0	06/23/22 10:51	
Decachlorobiphenyl (S)	%	93	38-95	06/23/22 10:51	
Tetrachloro-m-xylene (S)	%	91	50-99	06/23/22 10:51	

LABORATORY CONTROL SAMPLE: 2413650

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	477	95	71-104	
Decachlorobiphenyl (S)	%			96	38-95	S0
Tetrachloro-m-xylene (S)	%			90	50-99	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2413651 2413652

Parameter	Units	40246927001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<16.1			<16.1	<16.1					20	
PCB-1221 (Aroclor 1221)	ug/kg	<16.1			<16.1	<16.1					20	
PCB-1232 (Aroclor 1232)	ug/kg	<16.1			<16.1	<16.1					20	
PCB-1242 (Aroclor 1242)	ug/kg	<16.1			<16.1	<16.1					20	
PCB-1248 (Aroclor 1248)	ug/kg	<16.1			<16.1	<16.1					20	
PCB-1254 (Aroclor 1254)	ug/kg	226			309	250				21	20	
PCB-1260 (Aroclor 1260)	ug/kg	<16.1	530	530	549	513	104	97	42-109	7	20	
Decachlorobiphenyl (S)	%						93	89	38-95			
Tetrachloro-m-xylene (S)	%						96	90	50-99			

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QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40246796

QC Batch: 419044
QC Batch Method: EPA 3546
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E/3546 MSSV PAH by SIM
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40246796001, 40246796002, 40246796003, 40246796004

METHOD BLANK: 2412797 Matrix: Solid
Associated Lab Samples: 40246796001, 40246796002, 40246796003, 40246796004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<2.4	16.7	06/22/22 10:42	
2-Methylnaphthalene	ug/kg	<2.4	16.7	06/22/22 10:42	
Acenaphthene	ug/kg	<2.2	16.7	06/22/22 10:42	
Acenaphthylene	ug/kg	<2.1	16.7	06/22/22 10:42	
Anthracene	ug/kg	<2.1	16.7	06/22/22 10:42	
Benzo(a)anthracene	ug/kg	<2.2	16.7	06/22/22 10:42	
Benzo(a)pyrene	ug/kg	<1.9	16.7	06/22/22 10:42	
Benzo(b)fluoranthene	ug/kg	<2.3	16.7	06/22/22 10:42	
Benzo(g,h,i)perylene	ug/kg	<2.9	16.7	06/22/22 10:42	
Benzo(k)fluoranthene	ug/kg	<2.1	16.7	06/22/22 10:42	
Chrysene	ug/kg	<3.2	16.7	06/22/22 10:42	
Dibenz(a,h)anthracene	ug/kg	<2.3	16.7	06/22/22 10:42	
Fluoranthene	ug/kg	<2.0	16.7	06/22/22 10:42	
Fluorene	ug/kg	<2.0	16.7	06/22/22 10:42	
Indeno(1,2,3-cd)pyrene	ug/kg	<3.5	16.7	06/22/22 10:42	
Naphthalene	ug/kg	<1.6	16.7	06/22/22 10:42	
Phenanthrene	ug/kg	<1.9	16.7	06/22/22 10:42	
Pyrene	ug/kg	<2.5	16.7	06/22/22 10:42	
2-Fluorobiphenyl (S)	%	74	41-98	06/22/22 10:42	
Terphenyl-d14 (S)	%	84	37-106	06/22/22 10:42	

LABORATORY CONTROL SAMPLE: 2412798

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	334	252	75	64-110	
2-Methylnaphthalene	ug/kg	334	261	78	60-110	
Acenaphthene	ug/kg	334	269	81	69-120	
Acenaphthylene	ug/kg	334	259	78	63-120	
Anthracene	ug/kg	334	280	84	71-112	
Benzo(a)anthracene	ug/kg	334	253	76	62-120	
Benzo(a)pyrene	ug/kg	334	296	89	71-111	
Benzo(b)fluoranthene	ug/kg	334	250	75	59-112	
Benzo(g,h,i)perylene	ug/kg	334	277	83	64-115	
Benzo(k)fluoranthene	ug/kg	334	311	93	72-117	
Chrysene	ug/kg	334	293	88	75-120	
Dibenz(a,h)anthracene	ug/kg	334	275	82	67-114	
Fluoranthene	ug/kg	334	279	84	70-110	
Fluorene	ug/kg	334	279	84	64-104	
Indeno(1,2,3-cd)pyrene	ug/kg	334	275	82	71-114	

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REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40246796

LABORATORY CONTROL SAMPLE: 2412798

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	334	245	74	62-120	
Phenanthrene	ug/kg	334	254	76	59-106	
Pyrene	ug/kg	334	283	85	69-120	
2-Fluorobiphenyl (S)	%			73	41-98	
Terphenyl-d14 (S)	%			81	37-106	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2412799 2412800

Parameter	Units	40246796003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	<2.5	347	347	214	211	62	61	51-110	1	34	
2-Methylnaphthalene	ug/kg	<2.5	347	347	211	210	61	61	45-110	0	29	
Acenaphthene	ug/kg	<2.2	347	347	217	225	63	65	52-120	3	26	
Acenaphthylene	ug/kg	<2.2	347	347	215	213	62	61	46-120	1	22	
Anthracene	ug/kg	<2.2	347	347	240	231	69	67	50-112	4	25	
Benzo(a)anthracene	ug/kg	<2.2	347	347	213	202	61	58	41-120	5	37	
Benzo(a)pyrene	ug/kg	<2.0	347	347	264	253	76	73	44-114	4	33	
Benzo(b)fluoranthene	ug/kg	<2.4	347	347	219	200	63	57	41-112	9	43	
Benzo(g,h,i)perylene	ug/kg	<3.0	347	347	233	219	67	63	40-115	6	36	
Benzo(k)fluoranthene	ug/kg	<2.2	347	347	269	263	77	76	56-117	2	30	
Chrysene	ug/kg	<3.3	347	347	264	256	76	74	45-120	3	28	
Dibenz(a,h)anthracene	ug/kg	<2.4	347	347	234	221	68	64	44-114	6	33	
Fluoranthene	ug/kg	<2.1	347	347	236	230	68	66	55-110	3	43	
Fluorene	ug/kg	<2.1	347	347	233	229	67	66	47-104	1	27	
Indeno(1,2,3-cd)pyrene	ug/kg	<3.6	347	347	234	222	67	64	45-114	5	33	
Naphthalene	ug/kg	<1.7	347	347	196	199	57	57	47-120	1	26	
Phenanthrene	ug/kg	<2.0	347	347	216	211	62	61	38-106	2	24	
Pyrene	ug/kg	<2.5	347	347	252	238	72	68	51-120	6	41	
2-Fluorobiphenyl (S)	%						58	57	41-98			
Terphenyl-d14 (S)	%						70	65	37-106			

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QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40246796

QC Batch: 419185
QC Batch Method: EPA 3546
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E/3546 MSSV PAH by SIM
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40246796005, 40246796006, 40246796007, 40246796008, 40246796009, 40246796011, 40246796012, 40246796013, 40246796014, 40246796015, 40246796017

METHOD BLANK: 2413888 Matrix: Solid
Associated Lab Samples: 40246796005, 40246796006, 40246796007, 40246796008, 40246796009, 40246796011, 40246796012, 40246796013, 40246796014, 40246796015, 40246796017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<2.4	16.7	06/23/22 10:31	
2-Methylnaphthalene	ug/kg	<2.4	16.7	06/23/22 10:31	
Acenaphthene	ug/kg	<2.2	16.7	06/23/22 10:31	
Acenaphthylene	ug/kg	<2.1	16.7	06/23/22 10:31	
Anthracene	ug/kg	<2.1	16.7	06/23/22 10:31	
Benzo(a)anthracene	ug/kg	<2.2	16.7	06/23/22 10:31	
Benzo(a)pyrene	ug/kg	<1.9	16.7	06/23/22 10:31	
Benzo(b)fluoranthene	ug/kg	<2.3	16.7	06/23/22 10:31	
Benzo(g,h,i)perylene	ug/kg	<2.9	16.7	06/23/22 10:31	
Benzo(k)fluoranthene	ug/kg	<2.1	16.7	06/23/22 10:31	
Chrysene	ug/kg	<3.1	16.7	06/23/22 10:31	
Dibenz(a,h)anthracene	ug/kg	<2.3	16.7	06/23/22 10:31	
Fluoranthene	ug/kg	<2.0	16.7	06/23/22 10:31	
Fluorene	ug/kg	<2.0	16.7	06/23/22 10:31	
Indeno(1,2,3-cd)pyrene	ug/kg	<3.5	16.7	06/23/22 10:31	
Naphthalene	ug/kg	<1.6	16.7	06/23/22 10:31	
Phenanthrene	ug/kg	<1.9	16.7	06/23/22 10:31	
Pyrene	ug/kg	<2.5	16.7	06/23/22 10:31	
2-Fluorobiphenyl (S)	%	62	41-98	06/23/22 10:31	
Terphenyl-d14 (S)	%	90	37-106	06/23/22 10:31	

LABORATORY CONTROL SAMPLE: 2413889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	266	80	64-110	
2-Methylnaphthalene	ug/kg	333	262	79	60-110	
Acenaphthene	ug/kg	333	287	86	69-120	
Acenaphthylene	ug/kg	333	275	83	63-120	
Anthracene	ug/kg	333	303	91	71-112	
Benzo(a)anthracene	ug/kg	333	269	81	62-120	
Benzo(a)pyrene	ug/kg	333	332	100	71-111	
Benzo(b)fluoranthene	ug/kg	333	266	80	59-112	
Benzo(g,h,i)perylene	ug/kg	333	313	94	64-115	
Benzo(k)fluoranthene	ug/kg	333	347	104	72-117	
Chrysene	ug/kg	333	339	102	75-120	
Dibenz(a,h)anthracene	ug/kg	333	312	94	67-114	
Fluoranthene	ug/kg	333	303	91	70-110	

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QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40246796

LABORATORY CONTROL SAMPLE: 2413889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	ug/kg	333	299	90	64-104	
Indeno(1,2,3-cd)pyrene	ug/kg	333	316	95	71-114	
Naphthalene	ug/kg	333	250	75	62-120	
Phenanthrene	ug/kg	333	280	84	59-106	
Pyrene	ug/kg	333	313	94	69-120	
2-Fluorobiphenyl (S)	%			79	41-98	
Terphenyl-d14 (S)	%			93	37-106	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2413890 2413891

Parameter	Units	40246760004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	<2.8	378	378	295	289	78	76	51-110	2	34	
2-Methylnaphthalene	ug/kg	<2.8	378	378	301	294	79	78	45-110	3	29	
Acenaphthene	ug/kg	<2.5	378	378	288	295	76	78	52-120	2	26	
Acenaphthylene	ug/kg	<2.4	378	378	291	294	77	78	46-120	1	22	
Anthracene	ug/kg	<2.3	378	378	308	324	81	86	50-112	5	25	
Benzo(a)anthracene	ug/kg	<2.4	378	378	273	282	72	75	41-120	3	37	
Benzo(a)pyrene	ug/kg	<2.1	378	378	325	348	86	92	44-114	7	33	
Benzo(b)fluoranthene	ug/kg	<2.6	378	378	291	299	77	79	41-112	3	43	
Benzo(g,h,i)perylene	ug/kg	<3.3	378	378	301	327	79	87	40-115	8	36	
Benzo(k)fluoranthene	ug/kg	<2.4	378	378	313	337	83	89	56-117	8	30	
Chrysene	ug/kg	<3.6	378	378	333	358	88	95	45-120	7	28	
Dibenz(a,h)anthracene	ug/kg	<2.6	378	378	306	331	81	88	44-114	8	33	
Fluoranthene	ug/kg	<2.2	378	378	309	323	82	85	55-110	4	43	
Fluorene	ug/kg	<2.3	378	378	302	316	80	84	47-104	5	27	
Indeno(1,2,3-cd)pyrene	ug/kg	<3.9	378	378	307	333	81	88	45-114	8	33	
Naphthalene	ug/kg	<1.8	378	378	270	261	71	69	47-120	3	26	
Phenanthrene	ug/kg	<2.2	378	378	278	294	73	78	38-106	6	24	
Pyrene	ug/kg	<2.8	378	378	307	334	81	88	51-120	8	41	
2-Fluorobiphenyl (S)	%						71	69	41-98			
Terphenyl-d14 (S)	%						78	82	37-106			

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QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40246796

QC Batch: 419412
QC Batch Method: EPA 3546
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E/3546 MSSV PAH by SIM
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40246796010

METHOD BLANK: 2415702 Matrix: Solid
Associated Lab Samples: 40246796010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<2.4	16.7	06/27/22 10:11	
2-Methylnaphthalene	ug/kg	<2.4	16.7	06/27/22 10:11	
Acenaphthene	ug/kg	<2.2	16.7	06/27/22 10:11	
Acenaphthylene	ug/kg	<2.1	16.7	06/27/22 10:11	
Anthracene	ug/kg	<2.1	16.7	06/27/22 10:11	
Benzo(a)anthracene	ug/kg	3.6J	16.7	06/27/22 10:11	
Benzo(a)pyrene	ug/kg	<1.9	16.7	06/27/22 10:11	
Benzo(b)fluoranthene	ug/kg	4.5J	16.7	06/27/22 10:11	
Benzo(g,h,i)perylene	ug/kg	4.9J	16.7	06/27/22 10:11	
Benzo(k)fluoranthene	ug/kg	8.1J	16.7	06/27/22 10:11	
Chrysene	ug/kg	11.2J	16.7	06/27/22 10:11	
Dibenz(a,h)anthracene	ug/kg	6.2J	16.7	06/27/22 10:11	
Fluoranthene	ug/kg	2.1J	16.7	06/27/22 10:11	
Fluorene	ug/kg	<2.0	16.7	06/27/22 10:11	
Indeno(1,2,3-cd)pyrene	ug/kg	5.0J	16.7	06/27/22 10:11	
Naphthalene	ug/kg	<1.6	16.7	06/27/22 10:11	
Phenanthrene	ug/kg	<1.9	16.7	06/27/22 10:11	
Pyrene	ug/kg	2.5J	16.7	06/27/22 10:11	
2-Fluorobiphenyl (S)	%	65	41-98	06/27/22 10:11	
Terphenyl-d14 (S)	%	92	37-106	06/27/22 10:11	

LABORATORY CONTROL SAMPLE: 2415703

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	222	67	64-110	
2-Methylnaphthalene	ug/kg	333	213	64	60-110	
Acenaphthene	ug/kg	333	252	76	69-120	
Acenaphthylene	ug/kg	333	237	71	63-120	
Anthracene	ug/kg	333	291	87	71-112	
Benzo(a)anthracene	ug/kg	333	270	81	62-120	
Benzo(a)pyrene	ug/kg	333	325	97	71-111	
Benzo(b)fluoranthene	ug/kg	333	313	94	59-112	
Benzo(g,h,i)perylene	ug/kg	333	309	93	64-115	
Benzo(k)fluoranthene	ug/kg	333	303	91	72-117	
Chrysene	ug/kg	333	322	97	75-120	
Dibenz(a,h)anthracene	ug/kg	333	307	92	67-114	
Fluoranthene	ug/kg	333	292	88	70-110	
Fluorene	ug/kg	333	268	80	64-104	
Indeno(1,2,3-cd)pyrene	ug/kg	333	309	93	71-114	

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QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40246796

LABORATORY CONTROL SAMPLE: 2415703

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	333	198	59	62-120	L2
Phenanthrene	ug/kg	333	262	79	59-106	
Pyrene	ug/kg	333	309	93	69-120	
2-Fluorobiphenyl (S)	%			66	41-98	
Terphenyl-d14 (S)	%			92	37-106	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2415704 2415705

Parameter	Units	40246760009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	<2.9	390	390	304	318	78	81	51-110	5	34	
2-Methylnaphthalene	ug/kg	<2.9	390	390	297	311	76	80	45-110	5	29	
Acenaphthene	ug/kg	<2.5	390	390	314	326	80	83	52-120	4	26	
Acenaphthylene	ug/kg	<2.5	390	390	299	310	77	79	46-120	4	22	
Anthracene	ug/kg	8.1J	390	390	313	337	78	84	50-112	7	25	
Benzo(a)anthracene	ug/kg	25.8	390	390	290	298	68	70	41-120	3	37	
Benzo(a)pyrene	ug/kg	47.8	390	390	349	371	77	83	44-114	6	33	
Benzo(b)fluoranthene	ug/kg	69.4	390	390	305	322	61	65	41-112	5	43	
Benzo(g,h,i)perylene	ug/kg	40.9	390	390	326	343	73	78	40-115	5	36	
Benzo(k)fluoranthene	ug/kg	26.0	390	390	343	364	81	87	56-117	6	30	
Chrysene	ug/kg	55.7	390	390	355	372	77	81	45-120	5	28	
Dibenz(a,h)anthracene	ug/kg	10.8J	390	390	321	340	80	84	44-114	6	33	
Fluoranthene	ug/kg	106	390	390	324	339	56	60	55-110	5	43	
Fluorene	ug/kg	<2.3	390	390	322	330	82	84	47-104	2	27	
Indeno(1,2,3-cd)pyrene	ug/kg	32.7	390	390	324	342	75	79	45-114	5	33	
Naphthalene	ug/kg	<1.9	390	390	276	299	71	76	47-120	8	26	
Phenanthrene	ug/kg	46.9	390	390	288	304	62	66	38-106	5	24	
Pyrene	ug/kg	87.8	390	390	353	359	68	70	51-120	2	41	
2-Fluorobiphenyl (S)	%						75	75	41-98			
Terphenyl-d14 (S)	%						88	86	37-106			

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QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40246796

QC Batch: 418812
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40246796001, 40246796002, 40246796003, 40246796004, 40246796005, 40246796006, 40246796007, 40246796008, 40246796009, 40246796010, 40246796011, 40246796012, 40246796013, 40246796014, 40246796015

SAMPLE DUPLICATE: 2411911

Parameter	Units	40246796003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	3.7	3.4	10	10	

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QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40246796

QC Batch: 418817
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40246796017

SAMPLE DUPLICATE: 2411920

Parameter	Units	40246798004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.9	7.5	8	10	

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QUALIFIERS

Project: 60662292 PFAS SI
Pace Project No.: 40246796

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.

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TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 419224

[IP]	Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria specified in the test method. Sample results included are reported as individual isomers, but the lab and the client must recognize them as an isomeric pair.

Batch: 419443

[IP]	Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria specified in the test method. Sample results included are reported as individual isomers, but the lab and the client must recognize them as an isomeric pair.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40246796001	**MW-9_(1.5-3.5)**	EPA 3541	418949	EPA 8082A	418953
40246796002	**MW-13_(1.5-2.5)**	EPA 3541	418949	EPA 8082A	418953
40246796003	**MW-1_(1.5-3.5)**	EPA 3541	418949	EPA 8082A	418953
40246796004	**MW-5_(1-3)**	EPA 3541	418949	EPA 8082A	418953
40246796005	**MW-14_(1.5-3.5)**	EPA 3541	418949	EPA 8082A	418953
40246796006	**MW-10_(2-4)**	EPA 3541	418949	EPA 8082A	418953
40246796007	**MW-2_(1.5-3.5)**	EPA 3541	418949	EPA 8082A	418953
40246796008	**MW-7_(1.5-3.5)**	EPA 3541	418949	EPA 8082A	418953
40246796009	**MW-11_(1.5-3.5)**	EPA 3541	418949	EPA 8082A	418953
40246796010	**MW-6_(1.5-3.5)**	EPA 3541	419154	EPA 8082A	419172
40246796011	**MW-15_(1.5-3.5)**	EPA 3541	419154	EPA 8082A	419172
40246796012	**MW-3_(1.5-3.5)**	EPA 3541	419154	EPA 8082A	419172
40246796013	**MW-16_(1.5-3.5)**	EPA 3541	419154	EPA 8082A	419172
40246796014	**MW-12_(1.5-3.5)**	EPA 3541	419154	EPA 8082A	419172
40246796015	**MW-8_(1.5-3.5)**	EPA 3541	419154	EPA 8082A	419172
40246796017	**MW-4_(1.5-3.5)**	EPA 3541	419154	EPA 8082A	419172
40246796001	**MW-9_(1.5-3.5)**	EPA 3050B	418727	EPA 6010D	418980
40246796002	**MW-13_(1.5-2.5)**	EPA 3050B	418727	EPA 6010D	418980
40246796003	**MW-1_(1.5-3.5)**	EPA 3050B	418727	EPA 6010D	418980
40246796004	**MW-5_(1-3)**	EPA 3050B	418727	EPA 6010D	418980
40246796005	**MW-14_(1.5-3.5)**	EPA 3050B	418727	EPA 6010D	418980
40246796006	**MW-10_(2-4)**	EPA 3050B	418727	EPA 6010D	418980
40246796007	**MW-2_(1.5-3.5)**	EPA 3050B	418727	EPA 6010D	418980
40246796008	**MW-7_(1.5-3.5)**	EPA 3050B	418727	EPA 6010D	418980
40246796009	**MW-11_(1.5-3.5)**	EPA 3050B	418727	EPA 6010D	418980
40246796010	**MW-6_(1.5-3.5)**	EPA 3050B	418727	EPA 6010D	418980
40246796011	**MW-15_(1.5-3.5)**	EPA 3050B	418727	EPA 6010D	418980
40246796012	**MW-3_(1.5-3.5)**	EPA 3050B	418727	EPA 6010D	418980
40246796013	**MW-16_(1.5-3.5)**	EPA 3050B	418727	EPA 6010D	418980
40246796014	**MW-12_(1.5-3.5)**	EPA 3050B	418727	EPA 6010D	418980
40246796015	**MW-8_(1.5-3.5)**	EPA 3050B	418727	EPA 6010D	418980
40246796017	**MW-4_(1.5-3.5)**	EPA 3050B	418727	EPA 6010D	418980
40246796001	**MW-9_(1.5-3.5)**	EPA 7471	419295	EPA 7471	419328
40246796002	**MW-13_(1.5-2.5)**	EPA 7471	419295	EPA 7471	419328
40246796003	**MW-1_(1.5-3.5)**	EPA 7471	419295	EPA 7471	419328
40246796004	**MW-5_(1-3)**	EPA 7471	419295	EPA 7471	419328
40246796005	**MW-14_(1.5-3.5)**	EPA 7471	419295	EPA 7471	419328
40246796006	**MW-10_(2-4)**	EPA 7471	419295	EPA 7471	419328
40246796007	**MW-2_(1.5-3.5)**	EPA 7471	419295	EPA 7471	419328
40246796008	**MW-7_(1.5-3.5)**	EPA 7471	419295	EPA 7471	419328
40246796009	**MW-11_(1.5-3.5)**	EPA 7471	419295	EPA 7471	419328
40246796010	**MW-6_(1.5-3.5)**	EPA 7471	419295	EPA 7471	419328
40246796011	**MW-15_(1.5-3.5)**	EPA 7471	419295	EPA 7471	419328
40246796012	**MW-3_(1.5-3.5)**	EPA 7471	419295	EPA 7471	419328
40246796013	**MW-16_(1.5-3.5)**	EPA 7471	419295	EPA 7471	419328
40246796014	**MW-12_(1.5-3.5)**	EPA 7471	419295	EPA 7471	419328
40246796015	**MW-8_(1.5-3.5)**	EPA 7471	419295	EPA 7471	419328

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40246796017	MW-4_(1.5-3.5)	EPA 7471	419295	EPA 7471	419328
40246796001	MW-9_(1.5-3.5)	EPA 3546	419044	EPA 8270E by SIM	419105
40246796002	MW-13_(1.5-2.5)	EPA 3546	419044	EPA 8270E by SIM	419105
40246796003	MW-1_(1.5-3.5)	EPA 3546	419044	EPA 8270E by SIM	419105
40246796004	MW-5_(1-3)	EPA 3546	419044	EPA 8270E by SIM	419105
40246796005	MW-14_(1.5-3.5)	EPA 3546	419185	EPA 8270E by SIM	419224
40246796006	MW-10_(2-4)	EPA 3546	419185	EPA 8270E by SIM	419224
40246796007	MW-2_(1.5-3.5)	EPA 3546	419185	EPA 8270E by SIM	419224
40246796008	MW-7_(1.5-3.5)	EPA 3546	419185	EPA 8270E by SIM	419224
40246796009	MW-11_(1.5-3.5)	EPA 3546	419185	EPA 8270E by SIM	419224
40246796010	MW-6_(1.5-3.5)	EPA 3546	419412	EPA 8270E by SIM	419443
40246796011	MW-15_(1.5-3.5)	EPA 3546	419185	EPA 8270E by SIM	419224
40246796012	MW-3_(1.5-3.5)	EPA 3546	419185	EPA 8270E by SIM	419224
40246796013	MW-16_(1.5-3.5)	EPA 3546	419185	EPA 8270E by SIM	419224
40246796014	MW-12_(1.5-3.5)	EPA 3546	419185	EPA 8270E by SIM	419224
40246796015	MW-8_(1.5-3.5)	EPA 3546	419185	EPA 8270E by SIM	419224
40246796017	MW-4_(1.5-3.5)	EPA 3546	419185	EPA 8270E by SIM	419224
40246796001	MW-9_(1.5-3.5)	EPA 5035/5030B	418933	EPA 8260	418935
40246796002	MW-13_(1.5-2.5)	EPA 5035/5030B	418933	EPA 8260	418935
40246796003	MW-1_(1.5-3.5)	EPA 5035/5030B	418933	EPA 8260	418935
40246796004	MW-5_(1-3)	EPA 5035/5030B	418933	EPA 8260	418935
40246796005	MW-14_(1.5-3.5)	EPA 5035/5030B	418933	EPA 8260	418935
40246796006	MW-10_(2-4)	EPA 5035/5030B	418933	EPA 8260	418935
40246796007	MW-2_(1.5-3.5)	EPA 5035/5030B	418933	EPA 8260	418935
40246796008	MW-7_(1.5-3.5)	EPA 5035/5030B	418933	EPA 8260	418935
40246796009	MW-11_(1.5-3.5)	EPA 5035/5030B	418933	EPA 8260	418935
40246796010	MW-6_(1.5-3.5)	EPA 5035/5030B	418933	EPA 8260	418935
40246796011	MW-15_(1.5-3.5)	EPA 5035/5030B	418933	EPA 8260	418935
40246796012	MW-3_(1.5-3.5)	EPA 5035/5030B	418933	EPA 8260	418935
40246796013	MW-16_(1.5-3.5)	EPA 5035/5030B	418933	EPA 8260	418935
40246796014	MW-12_(1.5-3.5)	EPA 5035/5030B	418933	EPA 8260	418935
40246796015	MW-8_(1.5-3.5)	EPA 5035/5030B	418933	EPA 8260	418935
40246796017	MW-4_(1.5-3.5)	EPA 5035/5030B	418933	EPA 8260	418935
40246796018	TRIP BLANK	EPA 5035/5030B	418933	EPA 8260	418935
40246796001	MW-9_(1.5-3.5)	ASTM D2974-87	418812		
40246796002	MW-13_(1.5-2.5)	ASTM D2974-87	418812		
40246796003	MW-1_(1.5-3.5)	ASTM D2974-87	418812		
40246796004	MW-5_(1-3)	ASTM D2974-87	418812		
40246796005	MW-14_(1.5-3.5)	ASTM D2974-87	418812		
40246796006	MW-10_(2-4)	ASTM D2974-87	418812		
40246796007	MW-2_(1.5-3.5)	ASTM D2974-87	418812		
40246796008	MW-7_(1.5-3.5)	ASTM D2974-87	418812		
40246796009	MW-11_(1.5-3.5)	ASTM D2974-87	418812		
40246796010	MW-6_(1.5-3.5)	ASTM D2974-87	418812		
40246796011	MW-15_(1.5-3.5)	ASTM D2974-87	418812		
40246796012	MW-3_(1.5-3.5)	ASTM D2974-87	418812		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60662292 PFAS SI
Pace Project No.: 40246796

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40246796013	**MW-16_(1.5-3.5)**	ASTM D2974-87	418812		
40246796014	**MW-12_(1.5-3.5)**	ASTM D2974-87	418812		
40246796015	**MW-8_(1.5-3.5)**	ASTM D2974-87	418812		
40246796017	**MW-4_(1.5-3.5)**	ASTM D2974-87	418817		

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40246796

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Section A	Section B	Section C
Required Client Information:	Required Project Information:	Invoice Information:
Company: AECOM	Report To: Andrew Mott	Attention:
Address: 1555 N. River Center Drive, Suite 214	Copy To: Andrew.Mott@aecom.com	Company Name:
Milwaukee, WI 53212	920-379-6024	Address:
Email: Garrel.Schacht@aecom.com	Purchase Order #:	Pace Quote:
Phone: (920)471-6654 Fax:	Project Name: 00100498 - Aecom_PN 60662292_091321	Pace Project Manager: christopher.hyska@pacelabs.com,
Requested Due Date:	Project #: 60662292	Pace Profile #: 6933

Regulatory Agency: —

State / Location: WI

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC	PAH 8270/SIM	RCRA 8 Metals	Trip BLANK	PCB and PAHs	MeOH Blank	Residual Chlorine (Y/N)	
1	MW-9_(1.5-3.5)	SL	G	6-13-22	1215														X		X		X			001
2	MW-13_(1.5-2.5)			6-13-22	1130														X		X		X			002
3	MW-1_(1.5-3.5)			6-13-22	1210														X		X		X			@1310 003
4	MW-5_(1-3)			6-13-22	1345														X		X		X			004
5	MW-14_(1.5-3.5)			6-14-22	0740														X		X		X			005
6	MW-10_(2-4)			6-14-22	0815														X		X		X			006
7	MW-2_(1.5-3.5)			6-14-22	1100														X		X		X			007
8	MW-7_(1.5-3.5)			6-14-22	1130														X		X		X			008
9	MW-11_(1.5-3.5)			6-14-22	1210														X		X		X			009
10	MW-6_(1.5-3.5)			6-14-22	1240														X		X		X			010
11	MW-15_(1.5-3.5)			6-14-22	1330														X		X		X			011
12	MW-3_(1.5-3.5)	▼	▼	6-14-22	1430														X		X		X			012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		6/14/22	1405		6/15/22	1403	3	Y	N	Y

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed:				

402466796

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Section A	Section B	Section C	
Required Client Information:	Required Project Information:	Invoice Information:	
Company: AECOM	Report To: Andrew Mott	Attention:	
Address: 1555 N. River Center Drive, Suite 214	Copy To: Andrew.Mott@aecom.com	Company Name:	Regulatory Agency
Waukee, WI 53212	920-379-6024	Address:	
Email: Garret.Schacht@aecom.com	Purchase Order #:	Pace Quote:	
Phone: (920)471-6654 Fax:	Project Name: 00100498 - Aecom_PN 60662292_091321	Pace Project Manager: christopher.hyska@pacelabs.com,	State / Location
Requested Due Date:	Project #: 60662292	Pace Profile #: 6933	WI

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC	PAH 8270/SIM	RCRA 8 Metals	Trip BLANK	PCB and PAHs	MeOH Blank	Residual Chlorine (Y/N)	
1	MW-16_(1.5-3.5)	SL	G	6-14-22	1515														X		X		X			013
2	MW-12_(1.5-3.5)			6-15-22	0900														X		X		X			014
3	MW-8_(1.5-3.5)			6-15-22	0950														X		X		X			015
4	MW-8_(13-14)			6-15-22	1000														X		X		X			Hold 016
5	MW-4-(1.5-3.5)			6-15-22	1130														X		X		X			017
6	Trip Blank	▼	▼	6-13-22	0700														X							018
7																											
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		6/17/22	1405		6/18/22	1405	3	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Sample Preservation Receipt Form

Client Name: Aecom Project # 402467960

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☒N/A

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

Initial when completed: Date/ Time:

Pace Lab #	Glass: AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	Vials: VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																																	2.5 / 5 / 10
002																																	2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																		9/17/22 NV															2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : ☐Yes ☐No ☒N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9A	40 mL clear ascorbic	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG5U	100 mL amber glass unpres			VG9D	40 mL clear vial DI	ZPLC	ziploc bag
AG2S	500 mL amber glass H2SO4					GN	
BG3U	250 mL clear glass unpres						

Page 1 of 2

Qualtrax Document ID: 41307

Pace Analytical Services, LLC

Sample Condition Upon Receipt Form (SCUR)

Project #: WO# : 40246796

40246796

Client Name: AECOM

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco
☒ Client ☐ Pace Other: _____

Tracking #: _____

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 - 98 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2 /Corr: 3

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: 6/17/22 /Initials: NK
Labeled By Initials: AJ

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☒No ☐N/A	2. invoice 6/17/22 NK
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☒No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume:		8.
For Analysis: ☒Yes ☐No MS/MSD:	☐Yes ☒No ☐N/A	
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S		
Trip Blank Present:	☒Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 1230		

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 login

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

July 25, 2022

Andrew Mott
AECOM
558 North Main St
Oshkosh, WI 54901

RE: Project: 60662292 PFAS SI
Pace Project No.: 40248098

Dear Andrew Mott:

Enclosed are the analytical results for sample(s) received by the laboratory on July 14, 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
- Pace Analytical Services - Indianapolis

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

Sincerely,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Katie Crotteau, AECOM

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

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
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

Pace Analytical Services Indianapolis
7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Wisconsin Laboratory #: 999788130
USDA Soil Permit #: P330-19-00257

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Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40248098001	**MW-1**	Water	07/12/22 10:35	07/14/22 08:00
40248098002	**MW-2**	Water	07/12/22 15:15	07/14/22 08:00
40248098003	**MW-3**	Water	07/12/22 16:15	07/14/22 08:00
40248098004	**MW-4**	Water	07/13/22 14:40	07/14/22 08:00
40248098005	**MW-5**	Water	07/12/22 09:35	07/14/22 08:00
40248098006	**MW-6**	Water	07/12/22 14:05	07/14/22 08:00
40248098007	**MW-7**	Water	07/13/22 07:20	07/14/22 08:00
40248098008	**MW-8**	Water	07/13/22 13:35	07/14/22 08:00
40248098009	**MW-9**	Water	07/12/22 08:30	07/14/22 08:00
40248098010	**MW-10**	Water	07/12/22 13:05	07/14/22 08:00
40248098011	**MW-11**	Water	07/13/22 08:15	07/14/22 08:00
40248098012	**MW-12**	Water	07/13/22 12:25	07/14/22 08:00
40248098013	**MW-13**	Water	07/12/22 07:20	07/14/22 08:00
40248098014	**MW-14**	Water	07/12/22 12:10	07/14/22 08:00
40248098015	**MW-15**	Water	07/13/22 09:25	07/14/22 08:00
40248098016	**MW-16**	Water	07/13/22 10:55	07/14/22 08:00
40248098017	**MW-12 DUP**	Water	07/13/22 12:25	07/14/22 08:00
40248098018	**TRIP BLANK**	Water	07/12/22 06:30	07/14/22 08:00

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SAMPLE ANALYTE COUNT

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40248098001	**MW-1**	EPA 8082A	BLM	10	PASI-G
		EPA 6020	CAW	7	PASI-I
		EPA 7470	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	LAP	65	PASI-G
40248098002	**MW-2**	EPA 8082A	BLM	10	PASI-G
		EPA 6020	CAW	7	PASI-I
		EPA 7470	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	LAP	65	PASI-G
40248098003	**MW-3**	EPA 8082A	BLM	10	PASI-G
		EPA 6020	CAW	7	PASI-I
		EPA 7470	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	LAP	65	PASI-G
40248098004	**MW-4**	EPA 8082A	BLM	10	PASI-G
		EPA 6020	CAW	7	PASI-I
		EPA 7470	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	LAP	65	PASI-G
40248098005	**MW-5**	EPA 8082A	BLM	10	PASI-G
		EPA 6020	CAW	7	PASI-I
		EPA 7470	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	LAP	65	PASI-G
40248098006	**MW-6**	EPA 8082A	BLM	10	PASI-G
		EPA 6020	CAW	7	PASI-I
		EPA 7470	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	EIB	65	PASI-G
40248098007	**MW-7**	EPA 8082A	BLM	10	PASI-G
		EPA 6020	CAW	7	PASI-I
		EPA 7470	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	EIB	65	PASI-G
40248098008	**MW-8**	EPA 8082A	BLM	10	PASI-G
		EPA 6020	CAW	7	PASI-I

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SAMPLE ANALYTE COUNT

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7470	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	EIB	65	PASI-G
40248098009	**MW-9**	EPA 8082A	BLM	10	PASI-G
		EPA 6020	CAW	7	PASI-I
		EPA 7470	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	EIB	65	PASI-G
40248098010	**MW-10**	EPA 8082A	BLM	10	PASI-G
		EPA 6020	CAW	7	PASI-I
		EPA 7470	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	EIB	65	PASI-G
40248098011	**MW-11**	EPA 8082A	BLM	10	PASI-G
		EPA 6020	CAW	7	PASI-I
		EPA 7470	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	EIB	65	PASI-G
40248098012	**MW-12**	EPA 8082A	BLM	10	PASI-G
		EPA 6020	CAW	7	PASI-I
		EPA 7470	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	EIB	65	PASI-G
40248098013	**MW-13**	EPA 8082A	BLM	10	PASI-G
		EPA 6020	CAW	7	PASI-I
		EPA 7470	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	EIB	65	PASI-G
40248098014	**MW-14**	EPA 8082A	BLM	10	PASI-G
		EPA 6020	CAW	7	PASI-I
		EPA 7470	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	EIB	65	PASI-G
40248098015	**MW-15**	EPA 8082A	BLM	10	PASI-G
		EPA 6020	CAW	7	PASI-I
		EPA 7470	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G

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SAMPLE ANALYTE COUNT

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	EIB	65	PASI-G
40248098016	**MW-16**	EPA 8082A	BLM	10	PASI-G
		EPA 6020	CAW	7	PASI-I
		EPA 7470	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	EIB	65	PASI-G
40248098017	**MW-12 DUP**	EPA 8082A	BLM	10	PASI-G
		EPA 6020	CAW	7	PASI-I
		EPA 7470	AJT	1	PASI-G
		EPA 8270E by SIM	RJN	20	PASI-G
		EPA 8260	EIB	65	PASI-G
40248098018	**TRIP BLANK**	EPA 8260	EIB	65	PASI-G

PASI-G = Pace Analytical Services - Green Bay
PASI-I = Pace Analytical Services - Indianapolis

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SUMMARY OF DETECTION

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40248098001	**MW-1**					
EPA 6020	Arsenic, Dissolved	0.48J	ug/L	0.58	07/19/22 18:14	
EPA 6020	Barium, Dissolved	413	ug/L	1.2	07/19/22 20:43	
EPA 6020	Cadmium, Dissolved	0.060J	ug/L	0.073	07/19/22 18:14	
EPA 6020	Chromium, Dissolved	0.62	ug/L	0.34	07/19/22 18:14	
EPA 6020	Lead, Dissolved	0.16J	ug/L	0.47	07/19/22 18:14	
EPA 6020	Selenium, Dissolved	1.7	ug/L	1.1	07/19/22 18:14	
EPA 8270E by SIM	Dibenz(a,h)anthracene	0.027J	ug/L	0.048	07/18/22 21:39	L2
EPA 8270E by SIM	Indeno(1,2,3-cd)pyrene	0.017J	ug/L	0.048	07/18/22 21:39	
40248098002	**MW-2**					
EPA 6020	Arsenic, Dissolved	21.6	ug/L	0.58	07/19/22 18:19	
EPA 6020	Barium, Dissolved	171	ug/L	0.31	07/19/22 18:19	
EPA 6020	Chromium, Dissolved	0.94	ug/L	0.34	07/19/22 18:19	
EPA 6020	Selenium, Dissolved	0.47J	ug/L	1.1	07/19/22 18:19	
EPA 8270E by SIM	Acenaphthene	1.6	ug/L	0.047	07/18/22 21:59	
EPA 8270E by SIM	Acenaphthylene	0.017J	ug/L	0.047	07/18/22 21:59	
EPA 8270E by SIM	Anthracene	0.028J	ug/L	0.047	07/18/22 21:59	
EPA 8270E by SIM	Fluoranthene	0.041J	ug/L	0.047	07/18/22 21:59	
EPA 8270E by SIM	Fluorene	0.18	ug/L	0.047	07/18/22 21:59	
EPA 8270E by SIM	1-Methylnaphthalene	0.025J	ug/L	0.047	07/18/22 21:59	
EPA 8270E by SIM	Naphthalene	0.057	ug/L	0.047	07/18/22 21:59	
EPA 8270E by SIM	Phenanthrene	0.042J	ug/L	0.047	07/18/22 21:59	
EPA 8270E by SIM	Pyrene	0.037J	ug/L	0.047	07/18/22 21:59	
EPA 8260	Chlorobenzene	0.94J	ug/L	1.0	07/15/22 15:24	
40248098003	**MW-3**					
EPA 6020	Arsenic, Dissolved	6.1	ug/L	0.58	07/19/22 18:24	
EPA 6020	Barium, Dissolved	123	ug/L	0.31	07/19/22 18:24	
EPA 6020	Chromium, Dissolved	2.0	ug/L	0.34	07/19/22 18:24	
EPA 6020	Selenium, Dissolved	0.70J	ug/L	1.1	07/19/22 18:24	
40248098004	**MW-4**					
EPA 6020	Arsenic, Dissolved	31.0	ug/L	0.58	07/19/22 18:29	
EPA 6020	Barium, Dissolved	180	ug/L	0.31	07/19/22 18:29	
EPA 6020	Chromium, Dissolved	1.7	ug/L	0.34	07/19/22 18:29	
EPA 6020	Selenium, Dissolved	0.60J	ug/L	1.1	07/19/22 18:29	
EPA 8270E by SIM	Acenaphthene	0.086	ug/L	0.049	07/18/22 22:39	
EPA 8270E by SIM	Anthracene	0.024J	ug/L	0.049	07/18/22 22:39	
EPA 8270E by SIM	Benzo(a)anthracene	0.016J	ug/L	0.049	07/18/22 22:39	B
EPA 8270E by SIM	Fluoranthene	0.027J	ug/L	0.049	07/18/22 22:39	
EPA 8270E by SIM	Phenanthrene	0.025J	ug/L	0.049	07/18/22 22:39	
EPA 8270E by SIM	Pyrene	0.025J	ug/L	0.049	07/18/22 22:39	
40248098005	**MW-5**					
EPA 6020	Arsenic, Dissolved	9.3	ug/L	0.58	07/19/22 18:43	
EPA 6020	Barium, Dissolved	410	ug/L	1.2	07/19/22 20:48	
EPA 6020	Chromium, Dissolved	2.2	ug/L	0.34	07/19/22 18:43	
EPA 6020	Selenium, Dissolved	1.2	ug/L	1.1	07/19/22 18:43	BA
EPA 8270E by SIM	Acenaphthene	0.066	ug/L	0.050	07/18/22 22:59	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40248098005	**MW-5**					
EPA 8270E by SIM	Benzo(a)anthracene	0.015J	ug/L	0.050	07/18/22 22:59	B
EPA 8270E by SIM	Fluorene	0.044J	ug/L	0.050	07/18/22 22:59	
EPA 8270E by SIM	Phenanthrene	0.048J	ug/L	0.050	07/18/22 22:59	
EPA 8270E by SIM	Pyrene	0.025J	ug/L	0.050	07/18/22 22:59	
EPA 8260	Chlorobenzene	1.3	ug/L	1.0	07/15/22 16:26	
40248098006	**MW-6**					
EPA 6020	Arsenic, Dissolved	91.4	ug/L	0.58	07/19/22 18:48	
EPA 6020	Barium, Dissolved	158	ug/L	0.31	07/19/22 18:48	
EPA 6020	Chromium, Dissolved	4.7	ug/L	0.34	07/19/22 18:48	
EPA 6020	Selenium, Dissolved	0.78J	ug/L	1.1	07/19/22 18:48	
EPA 8270E by SIM	Acenaphthene	0.13	ug/L	0.047	07/18/22 23:19	
EPA 8260	Chlorobenzene	2.1	ug/L	1.0	07/19/22 14:47	
40248098007	**MW-7**					
EPA 6020	Arsenic, Dissolved	126	ug/L	0.58	07/19/22 18:53	
EPA 6020	Barium, Dissolved	234	ug/L	0.62	07/19/22 20:53	
EPA 6020	Chromium, Dissolved	1.7	ug/L	0.34	07/19/22 18:53	
EPA 6020	Selenium, Dissolved	0.75J	ug/L	1.1	07/19/22 18:53	
EPA 8270E by SIM	Acenaphthene	0.087	ug/L	0.048	07/18/22 23:39	
EPA 8270E by SIM	Naphthalene	0.029J	ug/L	0.048	07/18/22 23:39	
40248098008	**MW-8**					
EPA 6020	Arsenic, Dissolved	8.0	ug/L	0.58	07/19/22 18:58	
EPA 6020	Barium, Dissolved	96.9	ug/L	0.31	07/19/22 18:58	
EPA 6020	Chromium, Dissolved	2.5	ug/L	0.34	07/19/22 18:58	
EPA 6020	Selenium, Dissolved	0.49J	ug/L	1.1	07/19/22 18:58	
EPA 8270E by SIM	Phenanthrene	0.032J	ug/L	0.048	07/18/22 23:59	
EPA 8260	p-Isopropyltoluene	1.5J	ug/L	5.0	07/19/22 15:29	
40248098009	**MW-9**					
EPA 6020	Arsenic, Dissolved	5.9	ug/L	0.58	07/19/22 19:12	
EPA 6020	Barium, Dissolved	621	ug/L	1.5	07/19/22 20:58	
EPA 6020	Chromium, Dissolved	1.8	ug/L	0.34	07/19/22 19:12	
EPA 6020	Selenium, Dissolved	0.94J	ug/L	1.1	07/19/22 19:12	
EPA 8270E by SIM	Acenaphthene	0.38	ug/L	0.051	07/19/22 00:19	
EPA 8260	Chlorobenzene	1.7	ug/L	1.0	07/19/22 15:49	
40248098010	**MW-10**					
EPA 6020	Arsenic, Dissolved	23.2	ug/L	0.58	07/19/22 19:17	
EPA 6020	Barium, Dissolved	251	ug/L	0.62	07/19/22 21:02	
EPA 6020	Chromium, Dissolved	1.5	ug/L	0.34	07/19/22 19:17	
EPA 6020	Selenium, Dissolved	0.89J	ug/L	1.1	07/19/22 19:17	
EPA 8270E by SIM	Acenaphthene	3.8	ug/L	0.048	07/19/22 00:39	
EPA 8270E by SIM	Acenaphthylene	0.018J	ug/L	0.048	07/19/22 00:39	
EPA 8270E by SIM	Anthracene	0.026J	ug/L	0.048	07/19/22 00:39	
EPA 8270E by SIM	Fluorene	0.68	ug/L	0.048	07/19/22 00:39	
EPA 8270E by SIM	1-Methylnaphthalene	4.7	ug/L	0.048	07/19/22 00:39	
EPA 8270E by SIM	Naphthalene	0.045J	ug/L	0.048	07/19/22 00:39	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40248098010	**MW-10**					
EPA 8270E by SIM	Phenanthrene	0.15	ug/L	0.048	07/19/22 00:39	
EPA 8260	Chlorobenzene	1.1	ug/L	1.0	07/19/22 16:10	
40248098011	**MW-11**					
EPA 6020	Arsenic, Dissolved	45.7	ug/L	0.58	07/19/22 19:21	
EPA 6020	Barium, Dissolved	439	ug/L	1.5	07/19/22 21:17	
EPA 6020	Chromium, Dissolved	0.99	ug/L	0.34	07/19/22 19:21	
EPA 6020	Selenium, Dissolved	0.67J	ug/L	1.1	07/19/22 19:21	
EPA 8270E by SIM	Acenaphthene	0.39	ug/L	0.048	07/19/22 09:10	
EPA 8270E by SIM	Anthracene	0.039J	ug/L	0.048	07/19/22 09:10	
EPA 8270E by SIM	Fluoranthene	0.035J	ug/L	0.048	07/19/22 09:10	
EPA 8270E by SIM	Fluorene	0.044J	ug/L	0.048	07/19/22 09:10	
EPA 8270E by SIM	1-Methylnaphthalene	0.037J	ug/L	0.048	07/19/22 09:10	
EPA 8270E by SIM	2-Methylnaphthalene	0.019J	ug/L	0.048	07/19/22 09:10	
EPA 8270E by SIM	Naphthalene	0.024J	ug/L	0.048	07/19/22 09:10	
EPA 8270E by SIM	Phenanthrene	0.14	ug/L	0.048	07/19/22 09:10	
EPA 8270E by SIM	Pyrene	0.025J	ug/L	0.048	07/19/22 09:10	
40248098012	**MW-12**					
EPA 6020	Arsenic, Dissolved	1.9	ug/L	0.58	07/19/22 19:26	
EPA 6020	Barium, Dissolved	58.3	ug/L	0.31	07/19/22 19:26	
EPA 6020	Chromium, Dissolved	1.1	ug/L	0.34	07/19/22 19:26	
EPA 6020	Selenium, Dissolved	0.40J	ug/L	1.1	07/19/22 19:26	
EPA 8270E by SIM	Acenaphthene	5.7	ug/L	0.047	07/19/22 09:30	
EPA 8270E by SIM	Acenaphthylene	0.026J	ug/L	0.047	07/19/22 09:30	
EPA 8270E by SIM	Anthracene	0.24	ug/L	0.047	07/19/22 09:30	
EPA 8270E by SIM	Benzo(a)anthracene	0.035J	ug/L	0.047	07/19/22 09:30	B
EPA 8270E by SIM	Benzo(a)pyrene	0.017J	ug/L	0.047	07/19/22 09:30	
EPA 8270E by SIM	Benzo(b)fluoranthene	0.020J	ug/L	0.047	07/19/22 09:30	
EPA 8270E by SIM	Chrysene	0.028J	ug/L	0.047	07/19/22 09:30	
EPA 8270E by SIM	Fluoranthene	0.29	ug/L	0.047	07/19/22 09:30	
EPA 8270E by SIM	Fluorene	1.1	ug/L	0.047	07/19/22 09:30	
EPA 8270E by SIM	1-Methylnaphthalene	2.6	ug/L	0.047	07/19/22 09:30	
EPA 8270E by SIM	2-Methylnaphthalene	0.70	ug/L	0.047	07/19/22 09:30	
EPA 8270E by SIM	Naphthalene	0.087	ug/L	0.047	07/19/22 09:30	
EPA 8270E by SIM	Phenanthrene	1.5	ug/L	0.047	07/19/22 09:30	
EPA 8270E by SIM	Pyrene	0.23	ug/L	0.047	07/19/22 09:30	
40248098013	**MW-13**					
EPA 6020	Arsenic, Dissolved	15.9	ug/L	0.58	07/19/22 19:41	
EPA 6020	Barium, Dissolved	574	ug/L	1.5	07/19/22 21:22	
EPA 6020	Chromium, Dissolved	1.4	ug/L	0.34	07/19/22 19:41	
EPA 6020	Selenium, Dissolved	0.53J	ug/L	1.1	07/19/22 19:41	
EPA 8270E by SIM	Acenaphthene	0.23	ug/L	0.050	07/19/22 09:50	
EPA 8270E by SIM	Acenaphthylene	0.021J	ug/L	0.050	07/19/22 09:50	
EPA 8270E by SIM	Anthracene	0.18	ug/L	0.050	07/19/22 09:50	
EPA 8270E by SIM	Benzo(a)anthracene	0.086	ug/L	0.050	07/19/22 09:50	B
EPA 8270E by SIM	Benzo(a)pyrene	0.066	ug/L	0.050	07/19/22 09:50	
EPA 8270E by SIM	Benzo(b)fluoranthene	0.078	ug/L	0.050	07/19/22 09:50	

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SUMMARY OF DETECTION

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40248098013	**MW-13**					
EPA 8270E by SIM	Benzo(g,h,i)perylene	0.046J	ug/L	0.050	07/19/22 09:50	
EPA 8270E by SIM	Benzo(k)fluoranthene	0.026J	ug/L	0.050	07/19/22 09:50	
EPA 8270E by SIM	Chrysene	0.083	ug/L	0.050	07/19/22 09:50	
EPA 8270E by SIM	Fluoranthene	0.42	ug/L	0.050	07/19/22 09:50	
EPA 8270E by SIM	Fluorene	0.16	ug/L	0.050	07/19/22 09:50	
EPA 8270E by SIM	Indeno(1,2,3-cd)pyrene	0.038J	ug/L	0.050	07/19/22 09:50	
EPA 8270E by SIM	1-Methylnaphthalene	0.15	ug/L	0.050	07/19/22 09:50	
EPA 8270E by SIM	2-Methylnaphthalene	0.072	ug/L	0.050	07/19/22 09:50	
EPA 8270E by SIM	Naphthalene	0.078	ug/L	0.050	07/19/22 09:50	
EPA 8270E by SIM	Phenanthrene	0.83	ug/L	0.050	07/19/22 09:50	
EPA 8270E by SIM	Pyrene	0.36	ug/L	0.050	07/19/22 09:50	
EPA 8260	Chlorobenzene	5.4	ug/L	1.0	07/19/22 17:12	
EPA 8260	1,2-Dichlorobenzene	0.38J	ug/L	1.0	07/19/22 17:12	
EPA 8260	1,4-Dichlorobenzene	1.9	ug/L	1.0	07/19/22 17:12	
EPA 8260	p-Isopropyltoluene	3.2J	ug/L	5.0	07/19/22 17:12	
40248098014	**MW-14**					
EPA 6020	Arsenic, Dissolved	5.4	ug/L	0.58	07/19/22 19:46	
EPA 6020	Barium, Dissolved	152	ug/L	0.31	07/19/22 19:46	
EPA 6020	Chromium, Dissolved	1.1	ug/L	0.34	07/19/22 19:46	
EPA 6020	Selenium, Dissolved	0.46J	ug/L	1.1	07/19/22 19:46	
EPA 8270E by SIM	Acenaphthene	0.18	ug/L	0.049	07/19/22 16:49	
EPA 8270E by SIM	1-Methylnaphthalene	0.68	ug/L	0.049	07/19/22 16:49	
EPA 8270E by SIM	2-Methylnaphthalene	0.015J	ug/L	0.049	07/19/22 16:49	
EPA 8270E by SIM	Naphthalene	0.11	ug/L	0.049	07/19/22 16:49	
EPA 8260	Chlorobenzene	3.2	ug/L	1.0	07/19/22 17:33	
40248098015	**MW-15**					
EPA 6020	Arsenic, Dissolved	8.6	ug/L	0.58	07/19/22 17:41	
EPA 6020	Barium, Dissolved	270	ug/L	0.62	07/19/22 20:10	
EPA 6020	Cadmium, Dissolved	0.033J	ug/L	0.073	07/19/22 17:41	
EPA 6020	Chromium, Dissolved	1.5	ug/L	0.34	07/19/22 17:41	
EPA 6020	Selenium, Dissolved	0.53J	ug/L	1.1	07/19/22 17:41	
EPA 8270E by SIM	Acenaphthene	5.5	ug/L	0.096	07/19/22 17:09	
EPA 8270E by SIM	Acenaphthylene	0.049J	ug/L	0.096	07/19/22 17:09	
EPA 8270E by SIM	Anthracene	0.36	ug/L	0.096	07/19/22 17:09	
EPA 8270E by SIM	Benzo(a)anthracene	0.031J	ug/L	0.096	07/19/22 17:09	
EPA 8270E by SIM	Fluoranthene	0.39	ug/L	0.096	07/19/22 17:09	
EPA 8270E by SIM	Fluorene	1.1	ug/L	0.096	07/19/22 17:09	
EPA 8270E by SIM	1-Methylnaphthalene	5.8	ug/L	0.096	07/19/22 17:09	
EPA 8270E by SIM	2-Methylnaphthalene	4.8	ug/L	0.096	07/19/22 17:09	
EPA 8270E by SIM	Naphthalene	9.8	ug/L	0.096	07/19/22 17:09	
EPA 8270E by SIM	Phenanthrene	2.1	ug/L	0.096	07/19/22 17:09	
EPA 8270E by SIM	Pyrene	0.39	ug/L	0.096	07/19/22 17:09	
EPA 8260	Benzene	2.3	ug/L	1.0	07/19/22 17:54	
EPA 8260	Naphthalene	19.9	ug/L	5.0	07/19/22 17:54	
EPA 8260	1,2,4-Trimethylbenzene	3.4	ug/L	1.0	07/19/22 17:54	
EPA 8260	1,3,5-Trimethylbenzene	0.85J	ug/L	1.0	07/19/22 17:54	

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
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(920)469-2436

SUMMARY OF DETECTION

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40248098016	**MW-16**					
EPA 6020	Arsenic, Dissolved	126	ug/L	0.58	07/19/22 19:50	
EPA 6020	Barium, Dissolved	582	ug/L	1.5	07/19/22 21:31	
EPA 6020	Cadmium, Dissolved	0.022J	ug/L	0.073	07/19/22 19:50	
EPA 6020	Chromium, Dissolved	0.60	ug/L	0.34	07/19/22 19:50	
EPA 6020	Selenium, Dissolved	0.54J	ug/L	1.1	07/19/22 19:50	
EPA 8270E by SIM	Acenaphthene	1.2	ug/L	0.049	07/19/22 17:29	
EPA 8270E by SIM	Acenaphthylene	0.060	ug/L	0.049	07/19/22 17:29	
EPA 8270E by SIM	Anthracene	0.17	ug/L	0.049	07/19/22 17:29	
EPA 8270E by SIM	Benzo(a)anthracene	0.039J	ug/L	0.049	07/19/22 17:29	
EPA 8270E by SIM	Benzo(a)pyrene	0.032J	ug/L	0.049	07/19/22 17:29	
EPA 8270E by SIM	Benzo(b)fluoranthene	0.034J	ug/L	0.049	07/19/22 17:29	
EPA 8270E by SIM	Benzo(g,h,i)perylene	0.024J	ug/L	0.049	07/19/22 17:29	
EPA 8270E by SIM	Chrysene	0.041J	ug/L	0.049	07/19/22 17:29	
EPA 8270E by SIM	Fluoranthene	0.27	ug/L	0.049	07/19/22 17:29	
EPA 8270E by SIM	Fluorene	0.47	ug/L	0.049	07/19/22 17:29	
EPA 8270E by SIM	Indeno(1,2,3-cd)pyrene	0.019J	ug/L	0.049	07/19/22 17:29	
EPA 8270E by SIM	1-Methylnaphthalene	0.74	ug/L	0.049	07/19/22 17:29	
EPA 8270E by SIM	2-Methylnaphthalene	0.38	ug/L	0.049	07/19/22 17:29	
EPA 8270E by SIM	Naphthalene	0.41	ug/L	0.049	07/19/22 17:29	
EPA 8270E by SIM	Phenanthrene	1.3	ug/L	0.049	07/19/22 17:29	
EPA 8270E by SIM	Pyrene	0.21	ug/L	0.049	07/19/22 17:29	
40248098017	**MW-12 DUP**					
EPA 6020	Arsenic, Dissolved	1.9	ug/L	0.58	07/19/22 19:55	
EPA 6020	Barium, Dissolved	58.4	ug/L	0.31	07/19/22 19:55	
EPA 6020	Chromium, Dissolved	1.2	ug/L	0.34	07/19/22 19:55	
EPA 8270E by SIM	Acenaphthene	6.0	ug/L	0.048	07/19/22 17:50	
EPA 8270E by SIM	Acenaphthylene	0.028J	ug/L	0.048	07/19/22 17:50	
EPA 8270E by SIM	Anthracene	0.24	ug/L	0.048	07/19/22 17:50	
EPA 8270E by SIM	Benzo(a)anthracene	0.029J	ug/L	0.048	07/19/22 17:50	
EPA 8270E by SIM	Benzo(b)fluoranthene	0.016J	ug/L	0.048	07/19/22 17:50	
EPA 8270E by SIM	Chrysene	0.024J	ug/L	0.048	07/19/22 17:50	
EPA 8270E by SIM	Fluoranthene	0.29	ug/L	0.048	07/19/22 17:50	
EPA 8270E by SIM	Fluorene	1.1	ug/L	0.048	07/19/22 17:50	
EPA 8270E by SIM	1-Methylnaphthalene	2.7	ug/L	0.048	07/19/22 17:50	
EPA 8270E by SIM	2-Methylnaphthalene	0.71	ug/L	0.048	07/19/22 17:50	
EPA 8270E by SIM	Naphthalene	0.085	ug/L	0.048	07/19/22 17:50	
EPA 8270E by SIM	Phenanthrene	1.5	ug/L	0.048	07/19/22 17:50	
EPA 8270E by SIM	Pyrene	0.24	ug/L	0.048	07/19/22 17:50	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-1 **Lab ID: 40248098001** Collected: 07/12/22 10:35 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 07:36	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 07:36	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 07:36	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 07:36	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 07:36	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 07:36	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 07:36	11096-82-5	
PCB, Total	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 07:36	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	99	%	17-141		1	07/21/22 08:22	07/22/22 07:36	877-09-8	
Decachlorobiphenyl (S)	80	%	10-113		1	07/21/22 08:22	07/22/22 07:36	2051-24-3	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis								
Arsenic, Dissolved	**0.48J**	ug/L	0.58	0.17	1	07/18/22 15:40	07/19/22 18:14	7440-38-2	
Barium, Dissolved	**413**	ug/L	1.2	0.37	4	07/18/22 15:40	07/19/22 20:43	7440-39-3	
Cadmium, Dissolved	**0.060J**	ug/L	0.073	0.022	1	07/18/22 15:40	07/19/22 18:14	7440-43-9	
Chromium, Dissolved	**0.62**	ug/L	0.34	0.10	1	07/18/22 15:40	07/19/22 18:14	7440-47-3	
Lead, Dissolved	**0.16J**	ug/L	0.47	0.14	1	07/18/22 15:40	07/19/22 18:14	7439-92-1	
Selenium, Dissolved	**1.7**	ug/L	1.1	0.33	1	07/18/22 15:40	07/19/22 18:14	7782-49-2	
Silver, Dissolved	**<0.029**	ug/L	0.097	0.029	1	07/18/22 15:40	07/19/22 18:14	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury, Dissolved	**<0.066**	ug/L	0.20	0.066	1	07/21/22 10:50	07/22/22 06:48	7439-97-6	
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**<0.013**	ug/L	0.048	0.013	1	07/15/22 08:34	07/18/22 21:39	83-32-9	
Acenaphthylene	**<0.012**	ug/L	0.048	0.012	1	07/15/22 08:34	07/18/22 21:39	208-96-8	
Anthracene	**<0.018**	ug/L	0.048	0.018	1	07/15/22 08:34	07/18/22 21:39	120-12-7	
Benzo(a)anthracene	**<0.013**	ug/L	0.048	0.013	1	07/15/22 08:34	07/18/22 21:39	56-55-3	
Benzo(a)pyrene	**<0.012**	ug/L	0.048	0.012	1	07/15/22 08:34	07/18/22 21:39	50-32-8	
Benzo(b)fluoranthene	**<0.0088**	ug/L	0.048	0.0088	1	07/15/22 08:34	07/18/22 21:39	205-99-2	
Benzo(g,h,i)perylene	**<0.022**	ug/L	0.048	0.022	1	07/15/22 08:34	07/18/22 21:39	191-24-2	
Benzo(k)fluoranthene	**<0.021**	ug/L	0.048	0.021	1	07/15/22 08:34	07/18/22 21:39	207-08-9	
Chrysene	**<0.012**	ug/L	0.048	0.012	1	07/15/22 08:34	07/18/22 21:39	218-01-9	
Dibenz(a,h)anthracene	**0.027J**	ug/L	0.048	0.017	1	07/15/22 08:34	07/18/22 21:39	53-70-3	L2
Fluoranthene	**<0.025**	ug/L	0.048	0.025	1	07/15/22 08:34	07/18/22 21:39	206-44-0	
Fluorene	**<0.023**	ug/L	0.048	0.023	1	07/15/22 08:34	07/18/22 21:39	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.017J**	ug/L	0.048	0.015	1	07/15/22 08:34	07/18/22 21:39	193-39-5	
1-Methylnaphthalene	**<0.017**	ug/L	0.048	0.017	1	07/15/22 08:34	07/18/22 21:39	90-12-0	
2-Methylnaphthalene	**<0.013**	ug/L	0.048	0.013	1	07/15/22 08:34	07/18/22 21:39	91-57-6	
Naphthalene	**<0.019**	ug/L	0.048	0.019	1	07/15/22 08:34	07/18/22 21:39	91-20-3	
Phenanthrene	**<0.025**	ug/L	0.048	0.025	1	07/15/22 08:34	07/18/22 21:39	85-01-8	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-1 **Lab ID: 40248098001** Collected: 07/12/22 10:35 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Pyrene	**<0.022**	ug/L	0.048	0.022	1	07/15/22 08:34	07/18/22 21:39	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	80	%	44-120		1	07/15/22 08:34	07/18/22 21:39	321-60-8	
Terphenyl-d14 (S)	83	%	49-120		1	07/15/22 08:34	07/18/22 21:39	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		07/15/22 16:46	71-43-2	
Bromobenzene	**<0.36**	ug/L	1.0	0.36	1		07/15/22 16:46	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/15/22 16:46	74-97-5	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		07/15/22 16:46	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		07/15/22 16:46	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		07/15/22 16:46	74-83-9	
n-Butylbenzene	**<0.86**	ug/L	1.0	0.86	1		07/15/22 16:46	104-51-8	
sec-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/15/22 16:46	135-98-8	
tert-Butylbenzene	**<0.59**	ug/L	1.0	0.59	1		07/15/22 16:46	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		07/15/22 16:46	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		07/15/22 16:46	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		07/15/22 16:46	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		07/15/22 16:46	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		07/15/22 16:46	74-87-3	
2-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/15/22 16:46	95-49-8	
4-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/15/22 16:46	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		07/15/22 16:46	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		07/15/22 16:46	124-48-1	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		07/15/22 16:46	106-93-4	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		07/15/22 16:46	74-95-3	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		07/15/22 16:46	95-50-1	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		07/15/22 16:46	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		07/15/22 16:46	106-46-7	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		07/15/22 16:46	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/15/22 16:46	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		07/15/22 16:46	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		07/15/22 16:46	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		07/15/22 16:46	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		07/15/22 16:46	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		07/15/22 16:46	78-87-5	
1,3-Dichloropropane	**<0.30**	ug/L	1.0	0.30	1		07/15/22 16:46	142-28-9	
2,2-Dichloropropane	**<4.2**	ug/L	5.0	4.2	1		07/15/22 16:46	594-20-7	
1,1-Dichloropropene	**<0.41**	ug/L	1.0	0.41	1		07/15/22 16:46	563-58-6	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		07/15/22 16:46	10061-01-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		07/15/22 16:46	10061-02-6	
Diisopropyl ether	**<1.1**	ug/L	5.0	1.1	1		07/15/22 16:46	108-20-3	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		07/15/22 16:46	100-41-4	
Hexachloro-1,3-butadiene	**<2.7**	ug/L	5.0	2.7	1		07/15/22 16:46	87-68-3	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-1 **Lab ID: 40248098001** Collected: 07/12/22 10:35 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.0**	ug/L	5.0	1.0	1		07/15/22 16:46	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	5.0	1.0	1		07/15/22 16:46	99-87-6	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		07/15/22 16:46	75-09-2	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		07/15/22 16:46	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		07/15/22 16:46	91-20-3	
n-Propylbenzene	**<0.35**	ug/L	1.0	0.35	1		07/15/22 16:46	103-65-1	
Styrene	**<0.36**	ug/L	1.0	0.36	1		07/15/22 16:46	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	1.0	0.36	1		07/15/22 16:46	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		07/15/22 16:46	79-34-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		07/15/22 16:46	127-18-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		07/15/22 16:46	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	5.0	1.0	1		07/15/22 16:46	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		07/15/22 16:46	120-82-1	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/15/22 16:46	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		07/15/22 16:46	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		07/15/22 16:46	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		07/15/22 16:46	75-69-4	
1,2,3-Trichloropropane	**<0.56**	ug/L	5.0	0.56	1		07/15/22 16:46	96-18-4	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		07/15/22 16:46	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		07/15/22 16:46	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/15/22 16:46	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		07/15/22 16:46	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		07/15/22 16:46	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		07/15/22 16:46	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		07/15/22 16:46	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		07/15/22 16:46	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		07/15/22 16:46	2037-26-5	

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(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-2 **Lab ID: 40248098002** Collected: 07/12/22 15:15 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 07:56	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 07:56	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 07:56	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 07:56	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 07:56	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 07:56	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 07:56	11096-82-5	
PCB, Total	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 07:56	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	17-141		1	07/21/22 08:22	07/22/22 07:56	877-09-8	
Decachlorobiphenyl (S)	48	%	10-113		1	07/21/22 08:22	07/22/22 07:56	2051-24-3	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis								
Arsenic, Dissolved	**21.6**	ug/L	0.58	0.17	1	07/18/22 15:40	07/19/22 18:19	7440-38-2	
Barium, Dissolved	**171**	ug/L	0.31	0.093	1	07/18/22 15:40	07/19/22 18:19	7440-39-3	
Cadmium, Dissolved	**<0.022**	ug/L	0.073	0.022	1	07/18/22 15:40	07/19/22 18:19	7440-43-9	
Chromium, Dissolved	**0.94**	ug/L	0.34	0.10	1	07/18/22 15:40	07/19/22 18:19	7440-47-3	
Lead, Dissolved	**<0.14**	ug/L	0.47	0.14	1	07/18/22 15:40	07/19/22 18:19	7439-92-1	
Selenium, Dissolved	**0.47J**	ug/L	1.1	0.33	1	07/18/22 15:40	07/19/22 18:19	7782-49-2	
Silver, Dissolved	**<0.029**	ug/L	0.097	0.029	1	07/18/22 15:40	07/19/22 18:19	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury, Dissolved	**<0.066**	ug/L	0.20	0.066	1	07/21/22 10:50	07/22/22 06:55	7439-97-6	
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**1.6**	ug/L	0.047	0.013	1	07/15/22 08:34	07/18/22 21:59	83-32-9	
Acenaphthylene	**0.017J**	ug/L	0.047	0.012	1	07/15/22 08:34	07/18/22 21:59	208-96-8	
Anthracene	**0.028J**	ug/L	0.047	0.018	1	07/15/22 08:34	07/18/22 21:59	120-12-7	
Benzo(a)anthracene	**<0.013**	ug/L	0.047	0.013	1	07/15/22 08:34	07/18/22 21:59	56-55-3	
Benzo(a)pyrene	**<0.012**	ug/L	0.047	0.012	1	07/15/22 08:34	07/18/22 21:59	50-32-8	
Benzo(b)fluoranthene	**<0.0086**	ug/L	0.047	0.0086	1	07/15/22 08:34	07/18/22 21:59	205-99-2	
Benzo(g,h,i)perylene	**<0.022**	ug/L	0.047	0.022	1	07/15/22 08:34	07/18/22 21:59	191-24-2	
Benzo(k)fluoranthene	**<0.021**	ug/L	0.047	0.021	1	07/15/22 08:34	07/18/22 21:59	207-08-9	
Chrysene	**<0.012**	ug/L	0.047	0.012	1	07/15/22 08:34	07/18/22 21:59	218-01-9	
Dibenz(a,h)anthracene	**<0.017**	ug/L	0.047	0.017	1	07/15/22 08:34	07/18/22 21:59	53-70-3	L2
Fluoranthene	**0.041J**	ug/L	0.047	0.025	1	07/15/22 08:34	07/18/22 21:59	206-44-0	
Fluorene	**0.18**	ug/L	0.047	0.022	1	07/15/22 08:34	07/18/22 21:59	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.015**	ug/L	0.047	0.015	1	07/15/22 08:34	07/18/22 21:59	193-39-5	
1-Methylnaphthalene	**0.025J**	ug/L	0.047	0.017	1	07/15/22 08:34	07/18/22 21:59	90-12-0	
2-Methylnaphthalene	**<0.013**	ug/L	0.047	0.013	1	07/15/22 08:34	07/18/22 21:59	91-57-6	
Naphthalene	**0.057**	ug/L	0.047	0.019	1	07/15/22 08:34	07/18/22 21:59	91-20-3	
Phenanthrene	**0.042J**	ug/L	0.047	0.024	1	07/15/22 08:34	07/18/22 21:59	85-01-8	

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(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-2 **Lab ID: 40248098002** Collected: 07/12/22 15:15 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Pyrene	**0.037J**	ug/L	0.047	0.021	1	07/15/22 08:34	07/18/22 21:59	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	76	%	44-120		1	07/15/22 08:34	07/18/22 21:59	321-60-8	
Terphenyl-d14 (S)	85	%	49-120		1	07/15/22 08:34	07/18/22 21:59	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		07/15/22 15:24	71-43-2	
Bromobenzene	**<0.36**	ug/L	1.0	0.36	1		07/15/22 15:24	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/15/22 15:24	74-97-5	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		07/15/22 15:24	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		07/15/22 15:24	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		07/15/22 15:24	74-83-9	
n-Butylbenzene	**<0.86**	ug/L	1.0	0.86	1		07/15/22 15:24	104-51-8	
sec-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/15/22 15:24	135-98-8	
tert-Butylbenzene	**<0.59**	ug/L	1.0	0.59	1		07/15/22 15:24	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		07/15/22 15:24	56-23-5	
Chlorobenzene	**0.94J**	ug/L	1.0	0.86	1		07/15/22 15:24	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		07/15/22 15:24	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		07/15/22 15:24	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		07/15/22 15:24	74-87-3	
2-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/15/22 15:24	95-49-8	
4-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/15/22 15:24	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		07/15/22 15:24	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		07/15/22 15:24	124-48-1	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		07/15/22 15:24	106-93-4	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		07/15/22 15:24	74-95-3	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		07/15/22 15:24	95-50-1	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		07/15/22 15:24	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		07/15/22 15:24	106-46-7	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		07/15/22 15:24	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/15/22 15:24	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		07/15/22 15:24	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		07/15/22 15:24	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		07/15/22 15:24	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		07/15/22 15:24	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		07/15/22 15:24	78-87-5	
1,3-Dichloropropane	**<0.30**	ug/L	1.0	0.30	1		07/15/22 15:24	142-28-9	
2,2-Dichloropropane	**<4.2**	ug/L	5.0	4.2	1		07/15/22 15:24	594-20-7	
1,1-Dichloropropene	**<0.41**	ug/L	1.0	0.41	1		07/15/22 15:24	563-58-6	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		07/15/22 15:24	10061-01-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		07/15/22 15:24	10061-02-6	
Diisopropyl ether	**<1.1**	ug/L	5.0	1.1	1		07/15/22 15:24	108-20-3	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		07/15/22 15:24	100-41-4	
Hexachloro-1,3-butadiene	**<2.7**	ug/L	5.0	2.7	1		07/15/22 15:24	87-68-3	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-2 **Lab ID: 40248098002** Collected: 07/12/22 15:15 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.0**	ug/L	5.0	1.0	1		07/15/22 15:24	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	5.0	1.0	1		07/15/22 15:24	99-87-6	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		07/15/22 15:24	75-09-2	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		07/15/22 15:24	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		07/15/22 15:24	91-20-3	
n-Propylbenzene	**<0.35**	ug/L	1.0	0.35	1		07/15/22 15:24	103-65-1	
Styrene	**<0.36**	ug/L	1.0	0.36	1		07/15/22 15:24	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	1.0	0.36	1		07/15/22 15:24	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		07/15/22 15:24	79-34-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		07/15/22 15:24	127-18-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		07/15/22 15:24	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	5.0	1.0	1		07/15/22 15:24	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		07/15/22 15:24	120-82-1	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/15/22 15:24	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		07/15/22 15:24	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		07/15/22 15:24	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		07/15/22 15:24	75-69-4	
1,2,3-Trichloropropane	**<0.56**	ug/L	5.0	0.56	1		07/15/22 15:24	96-18-4	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		07/15/22 15:24	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		07/15/22 15:24	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/15/22 15:24	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		07/15/22 15:24	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		07/15/22 15:24	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		07/15/22 15:24	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		07/15/22 15:24	460-00-4	
1,2-Dichlorobenzene-d4 (S)	108	%	70-130		1		07/15/22 15:24	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		07/15/22 15:24	2037-26-5	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-3 **Lab ID: 40248098003** Collected: 07/12/22 16:15 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 08:17	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 08:17	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 08:17	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 08:17	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 08:17	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 08:17	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 08:17	11096-82-5	
PCB, Total	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 08:17	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%	17-141		1	07/21/22 08:22	07/22/22 08:17	877-09-8	
Decachlorobiphenyl (S)	61	%	10-113		1	07/21/22 08:22	07/22/22 08:17	2051-24-3	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis								
Arsenic, Dissolved	**6.1**	ug/L	0.58	0.17	1	07/18/22 15:40	07/19/22 18:24	7440-38-2	
Barium, Dissolved	**123**	ug/L	0.31	0.093	1	07/18/22 15:40	07/19/22 18:24	7440-39-3	
Cadmium, Dissolved	**<0.022**	ug/L	0.073	0.022	1	07/18/22 15:40	07/19/22 18:24	7440-43-9	
Chromium, Dissolved	**2.0**	ug/L	0.34	0.10	1	07/18/22 15:40	07/19/22 18:24	7440-47-3	
Lead, Dissolved	**<0.14**	ug/L	0.47	0.14	1	07/18/22 15:40	07/19/22 18:24	7439-92-1	
Selenium, Dissolved	**0.70J**	ug/L	1.1	0.33	1	07/18/22 15:40	07/19/22 18:24	7782-49-2	
Silver, Dissolved	**<0.029**	ug/L	0.097	0.029	1	07/18/22 15:40	07/19/22 18:24	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury, Dissolved	**<0.066**	ug/L	0.20	0.066	1	07/21/22 10:50	07/22/22 06:57	7439-97-6	
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**<0.013**	ug/L	0.048	0.013	1	07/15/22 08:34	07/18/22 22:19	83-32-9	
Acenaphthylene	**<0.012**	ug/L	0.048	0.012	1	07/15/22 08:34	07/18/22 22:19	208-96-8	
Anthracene	**<0.018**	ug/L	0.048	0.018	1	07/15/22 08:34	07/18/22 22:19	120-12-7	
Benzo(a)anthracene	**<0.013**	ug/L	0.048	0.013	1	07/15/22 08:34	07/18/22 22:19	56-55-3	
Benzo(a)pyrene	**<0.012**	ug/L	0.048	0.012	1	07/15/22 08:34	07/18/22 22:19	50-32-8	
Benzo(b)fluoranthene	**<0.0088**	ug/L	0.048	0.0088	1	07/15/22 08:34	07/18/22 22:19	205-99-2	
Benzo(g,h,i)perylene	**<0.023**	ug/L	0.048	0.023	1	07/15/22 08:34	07/18/22 22:19	191-24-2	
Benzo(k)fluoranthene	**<0.022**	ug/L	0.048	0.022	1	07/15/22 08:34	07/18/22 22:19	207-08-9	
Chrysene	**<0.012**	ug/L	0.048	0.012	1	07/15/22 08:34	07/18/22 22:19	218-01-9	
Dibenz(a,h)anthracene	**<0.017**	ug/L	0.048	0.017	1	07/15/22 08:34	07/18/22 22:19	53-70-3	L2
Fluoranthene	**<0.025**	ug/L	0.048	0.025	1	07/15/22 08:34	07/18/22 22:19	206-44-0	
Fluorene	**<0.023**	ug/L	0.048	0.023	1	07/15/22 08:34	07/18/22 22:19	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.015**	ug/L	0.048	0.015	1	07/15/22 08:34	07/18/22 22:19	193-39-5	
1-Methylnaphthalene	**<0.017**	ug/L	0.048	0.017	1	07/15/22 08:34	07/18/22 22:19	90-12-0	
2-Methylnaphthalene	**<0.013**	ug/L	0.048	0.013	1	07/15/22 08:34	07/18/22 22:19	91-57-6	
Naphthalene	**<0.019**	ug/L	0.048	0.019	1	07/15/22 08:34	07/18/22 22:19	91-20-3	
Phenanthrene	**<0.025**	ug/L	0.048	0.025	1	07/15/22 08:34	07/18/22 22:19	85-01-8	

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(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-3 **Lab ID: 40248098003** Collected: 07/12/22 16:15 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Pyrene	**<0.022**	ug/L	0.048	0.022	1	07/15/22 08:34	07/18/22 22:19	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	76	%	44-120		1	07/15/22 08:34	07/18/22 22:19	321-60-8	
Terphenyl-d14 (S)	81	%	49-120		1	07/15/22 08:34	07/18/22 22:19	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		07/15/22 15:44	71-43-2	
Bromobenzene	**<0.36**	ug/L	1.0	0.36	1		07/15/22 15:44	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/15/22 15:44	74-97-5	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		07/15/22 15:44	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		07/15/22 15:44	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		07/15/22 15:44	74-83-9	
n-Butylbenzene	**<0.86**	ug/L	1.0	0.86	1		07/15/22 15:44	104-51-8	
sec-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/15/22 15:44	135-98-8	
tert-Butylbenzene	**<0.59**	ug/L	1.0	0.59	1		07/15/22 15:44	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		07/15/22 15:44	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		07/15/22 15:44	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		07/15/22 15:44	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		07/15/22 15:44	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		07/15/22 15:44	74-87-3	
2-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/15/22 15:44	95-49-8	
4-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/15/22 15:44	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		07/15/22 15:44	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		07/15/22 15:44	124-48-1	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		07/15/22 15:44	106-93-4	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		07/15/22 15:44	74-95-3	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		07/15/22 15:44	95-50-1	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		07/15/22 15:44	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		07/15/22 15:44	106-46-7	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		07/15/22 15:44	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/15/22 15:44	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		07/15/22 15:44	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		07/15/22 15:44	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		07/15/22 15:44	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		07/15/22 15:44	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		07/15/22 15:44	78-87-5	
1,3-Dichloropropane	**<0.30**	ug/L	1.0	0.30	1		07/15/22 15:44	142-28-9	
2,2-Dichloropropane	**<4.2**	ug/L	5.0	4.2	1		07/15/22 15:44	594-20-7	
1,1-Dichloropropene	**<0.41**	ug/L	1.0	0.41	1		07/15/22 15:44	563-58-6	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		07/15/22 15:44	10061-01-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		07/15/22 15:44	10061-02-6	
Diisopropyl ether	**<1.1**	ug/L	5.0	1.1	1		07/15/22 15:44	108-20-3	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		07/15/22 15:44	100-41-4	
Hexachloro-1,3-butadiene	**<2.7**	ug/L	5.0	2.7	1		07/15/22 15:44	87-68-3	

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(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-3 **Lab ID: 40248098003** Collected: 07/12/22 16:15 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.0**	ug/L	5.0	1.0	1		07/15/22 15:44	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	5.0	1.0	1		07/15/22 15:44	99-87-6	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		07/15/22 15:44	75-09-2	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		07/15/22 15:44	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		07/15/22 15:44	91-20-3	
n-Propylbenzene	**<0.35**	ug/L	1.0	0.35	1		07/15/22 15:44	103-65-1	
Styrene	**<0.36**	ug/L	1.0	0.36	1		07/15/22 15:44	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	1.0	0.36	1		07/15/22 15:44	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		07/15/22 15:44	79-34-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		07/15/22 15:44	127-18-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		07/15/22 15:44	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	5.0	1.0	1		07/15/22 15:44	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		07/15/22 15:44	120-82-1	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/15/22 15:44	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		07/15/22 15:44	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		07/15/22 15:44	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		07/15/22 15:44	75-69-4	
1,2,3-Trichloropropane	**<0.56**	ug/L	5.0	0.56	1		07/15/22 15:44	96-18-4	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		07/15/22 15:44	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		07/15/22 15:44	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/15/22 15:44	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		07/15/22 15:44	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		07/15/22 15:44	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		07/15/22 15:44	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		07/15/22 15:44	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		07/15/22 15:44	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		07/15/22 15:44	2037-26-5	

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(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-4 **Lab ID: 40248098004** Collected: 07/13/22 14:40 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 08:37	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 08:37	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 08:37	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 08:37	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 08:37	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 08:37	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 08:37	11096-82-5	
PCB, Total	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 08:37	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	97	%	17-141		1	07/21/22 08:22	07/22/22 08:37	877-09-8	
Decachlorobiphenyl (S)	55	%	10-113		1	07/21/22 08:22	07/22/22 08:37	2051-24-3	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis								
Arsenic, Dissolved	**31.0**	ug/L	0.58	0.17	1	07/18/22 15:40	07/19/22 18:29	7440-38-2	
Barium, Dissolved	**180**	ug/L	0.31	0.093	1	07/18/22 15:40	07/19/22 18:29	7440-39-3	
Cadmium, Dissolved	**<0.022**	ug/L	0.073	0.022	1	07/18/22 15:40	07/19/22 18:29	7440-43-9	
Chromium, Dissolved	**1.7**	ug/L	0.34	0.10	1	07/18/22 15:40	07/19/22 18:29	7440-47-3	
Lead, Dissolved	**<0.14**	ug/L	0.47	0.14	1	07/18/22 15:40	07/19/22 18:29	7439-92-1	
Selenium, Dissolved	**0.60J**	ug/L	1.1	0.33	1	07/18/22 15:40	07/19/22 18:29	7782-49-2	
Silver, Dissolved	**<0.029**	ug/L	0.097	0.029	1	07/18/22 15:40	07/19/22 18:29	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury, Dissolved	**<0.066**	ug/L	0.20	0.066	1	07/21/22 10:50	07/22/22 07:00	7439-97-6	
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**0.086**	ug/L	0.049	0.014	1	07/15/22 08:34	07/18/22 22:39	83-32-9	
Acenaphthylene	**<0.012**	ug/L	0.049	0.012	1	07/15/22 08:34	07/18/22 22:39	208-96-8	
Anthracene	**0.024J**	ug/L	0.049	0.018	1	07/15/22 08:34	07/18/22 22:39	120-12-7	
Benzo(a)anthracene	**0.016J**	ug/L	0.049	0.013	1	07/15/22 08:34	07/18/22 22:39	56-55-3	B
Benzo(a)pyrene	**<0.012**	ug/L	0.049	0.012	1	07/15/22 08:34	07/18/22 22:39	50-32-8	
Benzo(b)fluoranthene	**<0.0088**	ug/L	0.049	0.0088	1	07/15/22 08:34	07/18/22 22:39	205-99-2	
Benzo(g,h,i)perylene	**<0.023**	ug/L	0.049	0.023	1	07/15/22 08:34	07/18/22 22:39	191-24-2	
Benzo(k)fluoranthene	**<0.022**	ug/L	0.049	0.022	1	07/15/22 08:34	07/18/22 22:39	207-08-9	
Chrysene	**<0.012**	ug/L	0.049	0.012	1	07/15/22 08:34	07/18/22 22:39	218-01-9	
Dibenz(a,h)anthracene	**<0.017**	ug/L	0.049	0.017	1	07/15/22 08:34	07/18/22 22:39	53-70-3	L2
Fluoranthene	**0.027J**	ug/L	0.049	0.025	1	07/15/22 08:34	07/18/22 22:39	206-44-0	
Fluorene	**<0.023**	ug/L	0.049	0.023	1	07/15/22 08:34	07/18/22 22:39	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.015**	ug/L	0.049	0.015	1	07/15/22 08:34	07/18/22 22:39	193-39-5	
1-Methylnaphthalene	**<0.017**	ug/L	0.049	0.017	1	07/15/22 08:34	07/18/22 22:39	90-12-0	
2-Methylnaphthalene	**<0.013**	ug/L	0.049	0.013	1	07/15/22 08:34	07/18/22 22:39	91-57-6	
Naphthalene	**<0.019**	ug/L	0.049	0.019	1	07/15/22 08:34	07/18/22 22:39	91-20-3	
Phenanthrene	**0.025J**	ug/L	0.049	0.025	1	07/15/22 08:34	07/18/22 22:39	85-01-8	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-4 **Lab ID: 40248098004** Collected: 07/13/22 14:40 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Pyrene	**0.025J**	ug/L	0.049	0.022	1	07/15/22 08:34	07/18/22 22:39	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	77	%	44-120		1	07/15/22 08:34	07/18/22 22:39	321-60-8	
Terphenyl-d14 (S)	81	%	49-120		1	07/15/22 08:34	07/18/22 22:39	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		07/15/22 16:05	71-43-2	
Bromobenzene	**<0.36**	ug/L	1.0	0.36	1		07/15/22 16:05	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/15/22 16:05	74-97-5	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		07/15/22 16:05	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		07/15/22 16:05	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		07/15/22 16:05	74-83-9	
n-Butylbenzene	**<0.86**	ug/L	1.0	0.86	1		07/15/22 16:05	104-51-8	
sec-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/15/22 16:05	135-98-8	
tert-Butylbenzene	**<0.59**	ug/L	1.0	0.59	1		07/15/22 16:05	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		07/15/22 16:05	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		07/15/22 16:05	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		07/15/22 16:05	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		07/15/22 16:05	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		07/15/22 16:05	74-87-3	
2-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/15/22 16:05	95-49-8	
4-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/15/22 16:05	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		07/15/22 16:05	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		07/15/22 16:05	124-48-1	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		07/15/22 16:05	106-93-4	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		07/15/22 16:05	74-95-3	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		07/15/22 16:05	95-50-1	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		07/15/22 16:05	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		07/15/22 16:05	106-46-7	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		07/15/22 16:05	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/15/22 16:05	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		07/15/22 16:05	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		07/15/22 16:05	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		07/15/22 16:05	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		07/15/22 16:05	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		07/15/22 16:05	78-87-5	
1,3-Dichloropropane	**<0.30**	ug/L	1.0	0.30	1		07/15/22 16:05	142-28-9	
2,2-Dichloropropane	**<4.2**	ug/L	5.0	4.2	1		07/15/22 16:05	594-20-7	
1,1-Dichloropropene	**<0.41**	ug/L	1.0	0.41	1		07/15/22 16:05	563-58-6	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		07/15/22 16:05	10061-01-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		07/15/22 16:05	10061-02-6	
Diisopropyl ether	**<1.1**	ug/L	5.0	1.1	1		07/15/22 16:05	108-20-3	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		07/15/22 16:05	100-41-4	
Hexachloro-1,3-butadiene	**<2.7**	ug/L	5.0	2.7	1		07/15/22 16:05	87-68-3	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-4 **Lab ID: 40248098004** Collected: 07/13/22 14:40 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.0**	ug/L	5.0	1.0	1		07/15/22 16:05	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	5.0	1.0	1		07/15/22 16:05	99-87-6	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		07/15/22 16:05	75-09-2	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		07/15/22 16:05	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		07/15/22 16:05	91-20-3	
n-Propylbenzene	**<0.35**	ug/L	1.0	0.35	1		07/15/22 16:05	103-65-1	
Styrene	**<0.36**	ug/L	1.0	0.36	1		07/15/22 16:05	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	1.0	0.36	1		07/15/22 16:05	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		07/15/22 16:05	79-34-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		07/15/22 16:05	127-18-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		07/15/22 16:05	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	5.0	1.0	1		07/15/22 16:05	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		07/15/22 16:05	120-82-1	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/15/22 16:05	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		07/15/22 16:05	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		07/15/22 16:05	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		07/15/22 16:05	75-69-4	
1,2,3-Trichloropropane	**<0.56**	ug/L	5.0	0.56	1		07/15/22 16:05	96-18-4	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		07/15/22 16:05	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		07/15/22 16:05	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/15/22 16:05	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		07/15/22 16:05	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		07/15/22 16:05	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		07/15/22 16:05	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		07/15/22 16:05	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		07/15/22 16:05	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		07/15/22 16:05	2037-26-5	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-5 **Lab ID: 40248098005** Collected: 07/12/22 09:35 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 08:58	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 08:58	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 08:58	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 08:58	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 08:58	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 08:58	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 08:58	11096-82-5	
PCB, Total	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 08:58	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	96	%	17-141		1	07/21/22 08:22	07/22/22 08:58	877-09-8	
Decachlorobiphenyl (S)	50	%	10-113		1	07/21/22 08:22	07/22/22 08:58	2051-24-3	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis								
Arsenic, Dissolved	**9.3**	ug/L	0.58	0.17	1	07/18/22 15:40	07/19/22 18:43	7440-38-2	
Barium, Dissolved	**410**	ug/L	1.2	0.37	4	07/18/22 15:40	07/19/22 20:48	7440-39-3	
Cadmium, Dissolved	**<0.022**	ug/L	0.073	0.022	1	07/18/22 15:40	07/19/22 18:43	7440-43-9	
Chromium, Dissolved	**2.2**	ug/L	0.34	0.10	1	07/18/22 15:40	07/19/22 18:43	7440-47-3	
Lead, Dissolved	**<0.14**	ug/L	0.47	0.14	1	07/18/22 15:40	07/19/22 18:43	7439-92-1	
Selenium, Dissolved	**1.2**	ug/L	1.1	0.33	1	07/18/22 15:40	07/19/22 18:43	7782-49-2	BA
Silver, Dissolved	**<0.029**	ug/L	0.097	0.029	1	07/18/22 15:40	07/19/22 18:43	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury, Dissolved	**<0.066**	ug/L	0.20	0.066	1	07/21/22 10:50	07/22/22 07:02	7439-97-6	
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**0.066**	ug/L	0.050	0.014	1	07/15/22 08:34	07/18/22 22:59	83-32-9	
Acenaphthylene	**<0.012**	ug/L	0.050	0.012	1	07/15/22 08:34	07/18/22 22:59	208-96-8	
Anthracene	**<0.018**	ug/L	0.050	0.018	1	07/15/22 08:34	07/18/22 22:59	120-12-7	
Benzo(a)anthracene	**0.015J**	ug/L	0.050	0.013	1	07/15/22 08:34	07/18/22 22:59	56-55-3	B
Benzo(a)pyrene	**<0.013**	ug/L	0.050	0.013	1	07/15/22 08:34	07/18/22 22:59	50-32-8	
Benzo(b)fluoranthene	**<0.0090**	ug/L	0.050	0.0090	1	07/15/22 08:34	07/18/22 22:59	205-99-2	
Benzo(g,h,i)perylene	**<0.023**	ug/L	0.050	0.023	1	07/15/22 08:34	07/18/22 22:59	191-24-2	
Benzo(k)fluoranthene	**<0.022**	ug/L	0.050	0.022	1	07/15/22 08:34	07/18/22 22:59	207-08-9	
Chrysene	**<0.012**	ug/L	0.050	0.012	1	07/15/22 08:34	07/18/22 22:59	218-01-9	
Dibenz(a,h)anthracene	**<0.018**	ug/L	0.050	0.018	1	07/15/22 08:34	07/18/22 22:59	53-70-3	L2
Fluoranthene	**<0.026**	ug/L	0.050	0.026	1	07/15/22 08:34	07/18/22 22:59	206-44-0	
Fluorene	**0.044J**	ug/L	0.050	0.023	1	07/15/22 08:34	07/18/22 22:59	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.015**	ug/L	0.050	0.015	1	07/15/22 08:34	07/18/22 22:59	193-39-5	
1-Methylnaphthalene	**<0.018**	ug/L	0.050	0.018	1	07/15/22 08:34	07/18/22 22:59	90-12-0	
2-Methylnaphthalene	**<0.014**	ug/L	0.050	0.014	1	07/15/22 08:34	07/18/22 22:59	91-57-6	
Naphthalene	**<0.020**	ug/L	0.050	0.020	1	07/15/22 08:34	07/18/22 22:59	91-20-3	
Phenanthrene	**0.048J**	ug/L	0.050	0.025	1	07/15/22 08:34	07/18/22 22:59	85-01-8	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-5 **Lab ID: 40248098005** Collected: 07/12/22 09:35 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Pyrene	**0.025J**	ug/L	0.050	0.022	1	07/15/22 08:34	07/18/22 22:59	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	72	%	44-120		1	07/15/22 08:34	07/18/22 22:59	321-60-8	
Terphenyl-d14 (S)	77	%	49-120		1	07/15/22 08:34	07/18/22 22:59	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		07/15/22 16:26	71-43-2	
Bromobenzene	**<0.36**	ug/L	1.0	0.36	1		07/15/22 16:26	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/15/22 16:26	74-97-5	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		07/15/22 16:26	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		07/15/22 16:26	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		07/15/22 16:26	74-83-9	
n-Butylbenzene	**<0.86**	ug/L	1.0	0.86	1		07/15/22 16:26	104-51-8	
sec-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/15/22 16:26	135-98-8	
tert-Butylbenzene	**<0.59**	ug/L	1.0	0.59	1		07/15/22 16:26	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		07/15/22 16:26	56-23-5	
Chlorobenzene	**1.3**	ug/L	1.0	0.86	1		07/15/22 16:26	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		07/15/22 16:26	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		07/15/22 16:26	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		07/15/22 16:26	74-87-3	
2-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/15/22 16:26	95-49-8	
4-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/15/22 16:26	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		07/15/22 16:26	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		07/15/22 16:26	124-48-1	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		07/15/22 16:26	106-93-4	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		07/15/22 16:26	74-95-3	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		07/15/22 16:26	95-50-1	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		07/15/22 16:26	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		07/15/22 16:26	106-46-7	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		07/15/22 16:26	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/15/22 16:26	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		07/15/22 16:26	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		07/15/22 16:26	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		07/15/22 16:26	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		07/15/22 16:26	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		07/15/22 16:26	78-87-5	
1,3-Dichloropropane	**<0.30**	ug/L	1.0	0.30	1		07/15/22 16:26	142-28-9	
2,2-Dichloropropane	**<4.2**	ug/L	5.0	4.2	1		07/15/22 16:26	594-20-7	
1,1-Dichloropropene	**<0.41**	ug/L	1.0	0.41	1		07/15/22 16:26	563-58-6	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		07/15/22 16:26	10061-01-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		07/15/22 16:26	10061-02-6	
Diisopropyl ether	**<1.1**	ug/L	5.0	1.1	1		07/15/22 16:26	108-20-3	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		07/15/22 16:26	100-41-4	
Hexachloro-1,3-butadiene	**<2.7**	ug/L	5.0	2.7	1		07/15/22 16:26	87-68-3	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-5 **Lab ID: 40248098005** Collected: 07/12/22 09:35 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.0**	ug/L	5.0	1.0	1		07/15/22 16:26	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	5.0	1.0	1		07/15/22 16:26	99-87-6	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		07/15/22 16:26	75-09-2	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		07/15/22 16:26	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		07/15/22 16:26	91-20-3	
n-Propylbenzene	**<0.35**	ug/L	1.0	0.35	1		07/15/22 16:26	103-65-1	
Styrene	**<0.36**	ug/L	1.0	0.36	1		07/15/22 16:26	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	1.0	0.36	1		07/15/22 16:26	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		07/15/22 16:26	79-34-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		07/15/22 16:26	127-18-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		07/15/22 16:26	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	5.0	1.0	1		07/15/22 16:26	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		07/15/22 16:26	120-82-1	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/15/22 16:26	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		07/15/22 16:26	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		07/15/22 16:26	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		07/15/22 16:26	75-69-4	
1,2,3-Trichloropropane	**<0.56**	ug/L	5.0	0.56	1		07/15/22 16:26	96-18-4	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		07/15/22 16:26	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		07/15/22 16:26	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/15/22 16:26	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		07/15/22 16:26	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		07/15/22 16:26	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		07/15/22 16:26	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		07/15/22 16:26	460-00-4	
1,2-Dichlorobenzene-d4 (S)	109	%	70-130		1		07/15/22 16:26	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		07/15/22 16:26	2037-26-5	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-6 **Lab ID: 40248098006** Collected: 07/12/22 14:05 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 09:19	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 09:19	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 09:19	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 09:19	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 09:19	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 09:19	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 09:19	11096-82-5	
PCB, Total	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 09:19	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	17-141		1	07/21/22 08:22	07/22/22 09:19	877-09-8	
Decachlorobiphenyl (S)	43	%	10-113		1	07/21/22 08:22	07/22/22 09:19	2051-24-3	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis								
Arsenic, Dissolved	**91.4**	ug/L	0.58	0.17	1	07/18/22 15:40	07/19/22 18:48	7440-38-2	
Barium, Dissolved	**158**	ug/L	0.31	0.093	1	07/18/22 15:40	07/19/22 18:48	7440-39-3	
Cadmium, Dissolved	**<0.022**	ug/L	0.073	0.022	1	07/18/22 15:40	07/19/22 18:48	7440-43-9	
Chromium, Dissolved	**4.7**	ug/L	0.34	0.10	1	07/18/22 15:40	07/19/22 18:48	7440-47-3	
Lead, Dissolved	**<0.14**	ug/L	0.47	0.14	1	07/18/22 15:40	07/19/22 18:48	7439-92-1	
Selenium, Dissolved	**0.78J**	ug/L	1.1	0.33	1	07/18/22 15:40	07/19/22 18:48	7782-49-2	
Silver, Dissolved	**<0.029**	ug/L	0.097	0.029	1	07/18/22 15:40	07/19/22 18:48	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury, Dissolved	**<0.066**	ug/L	0.20	0.066	1	07/21/22 10:50	07/22/22 07:04	7439-97-6	
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**0.13**	ug/L	0.047	0.013	1	07/15/22 08:34	07/18/22 23:19	83-32-9	
Acenaphthylene	**<0.012**	ug/L	0.047	0.012	1	07/15/22 08:34	07/18/22 23:19	208-96-8	
Anthracene	**<0.018**	ug/L	0.047	0.018	1	07/15/22 08:34	07/18/22 23:19	120-12-7	
Benzo(a)anthracene	**<0.013**	ug/L	0.047	0.013	1	07/15/22 08:34	07/18/22 23:19	56-55-3	
Benzo(a)pyrene	**<0.012**	ug/L	0.047	0.012	1	07/15/22 08:34	07/18/22 23:19	50-32-8	
Benzo(b)fluoranthene	**<0.0086**	ug/L	0.047	0.0086	1	07/15/22 08:34	07/18/22 23:19	205-99-2	
Benzo(g,h,i)perylene	**<0.022**	ug/L	0.047	0.022	1	07/15/22 08:34	07/18/22 23:19	191-24-2	
Benzo(k)fluoranthene	**<0.021**	ug/L	0.047	0.021	1	07/15/22 08:34	07/18/22 23:19	207-08-9	
Chrysene	**<0.012**	ug/L	0.047	0.012	1	07/15/22 08:34	07/18/22 23:19	218-01-9	
Dibenz(a,h)anthracene	**<0.017**	ug/L	0.047	0.017	1	07/15/22 08:34	07/18/22 23:19	53-70-3	L2
Fluoranthene	**<0.025**	ug/L	0.047	0.025	1	07/15/22 08:34	07/18/22 23:19	206-44-0	
Fluorene	**<0.022**	ug/L	0.047	0.022	1	07/15/22 08:34	07/18/22 23:19	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.015**	ug/L	0.047	0.015	1	07/15/22 08:34	07/18/22 23:19	193-39-5	
1-Methylnaphthalene	**<0.017**	ug/L	0.047	0.017	1	07/15/22 08:34	07/18/22 23:19	90-12-0	
2-Methylnaphthalene	**<0.013**	ug/L	0.047	0.013	1	07/15/22 08:34	07/18/22 23:19	91-57-6	
Naphthalene	**<0.019**	ug/L	0.047	0.019	1	07/15/22 08:34	07/18/22 23:19	91-20-3	
Phenanthrene	**<0.024**	ug/L	0.047	0.024	1	07/15/22 08:34	07/18/22 23:19	85-01-8	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-6 **Lab ID: 40248098006** Collected: 07/12/22 14:05 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Pyrene	**<0.021**	ug/L	0.047	0.021	1	07/15/22 08:34	07/18/22 23:19	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	76	%	44-120		1	07/15/22 08:34	07/18/22 23:19	321-60-8	
Terphenyl-d14 (S)	82	%	49-120		1	07/15/22 08:34	07/18/22 23:19	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		07/19/22 14:47	71-43-2	
Bromobenzene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 14:47	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/19/22 14:47	74-97-5	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		07/19/22 14:47	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		07/19/22 14:47	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		07/19/22 14:47	74-83-9	
n-Butylbenzene	**<0.86**	ug/L	1.0	0.86	1		07/19/22 14:47	104-51-8	
sec-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/19/22 14:47	135-98-8	
tert-Butylbenzene	**<0.59**	ug/L	1.0	0.59	1		07/19/22 14:47	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		07/19/22 14:47	56-23-5	
Chlorobenzene	**2.1**	ug/L	1.0	0.86	1		07/19/22 14:47	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		07/19/22 14:47	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		07/19/22 14:47	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		07/19/22 14:47	74-87-3	
2-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/19/22 14:47	95-49-8	
4-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/19/22 14:47	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		07/19/22 14:47	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		07/19/22 14:47	124-48-1	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		07/19/22 14:47	106-93-4	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		07/19/22 14:47	74-95-3	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		07/19/22 14:47	95-50-1	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 14:47	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		07/19/22 14:47	106-46-7	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		07/19/22 14:47	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 14:47	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		07/19/22 14:47	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		07/19/22 14:47	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		07/19/22 14:47	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		07/19/22 14:47	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		07/19/22 14:47	78-87-5	
1,3-Dichloropropane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 14:47	142-28-9	
2,2-Dichloropropane	**<4.2**	ug/L	5.0	4.2	1		07/19/22 14:47	594-20-7	
1,1-Dichloropropene	**<0.41**	ug/L	1.0	0.41	1		07/19/22 14:47	563-58-6	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 14:47	10061-01-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		07/19/22 14:47	10061-02-6	
Diisopropyl ether	**<1.1**	ug/L	5.0	1.1	1		07/19/22 14:47	108-20-3	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		07/19/22 14:47	100-41-4	
Hexachloro-1,3-butadiene	**<2.7**	ug/L	5.0	2.7	1		07/19/22 14:47	87-68-3	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-6 **Lab ID: 40248098006** Collected: 07/12/22 14:05 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.0**	ug/L	5.0	1.0	1		07/19/22 14:47	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	5.0	1.0	1		07/19/22 14:47	99-87-6	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		07/19/22 14:47	75-09-2	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		07/19/22 14:47	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		07/19/22 14:47	91-20-3	
n-Propylbenzene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 14:47	103-65-1	
Styrene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 14:47	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	1.0	0.36	1		07/19/22 14:47	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		07/19/22 14:47	79-34-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		07/19/22 14:47	127-18-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		07/19/22 14:47	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	5.0	1.0	1		07/19/22 14:47	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		07/19/22 14:47	120-82-1	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 14:47	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		07/19/22 14:47	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		07/19/22 14:47	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		07/19/22 14:47	75-69-4	
1,2,3-Trichloropropane	**<0.56**	ug/L	5.0	0.56	1		07/19/22 14:47	96-18-4	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		07/19/22 14:47	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 14:47	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/19/22 14:47	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		07/19/22 14:47	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		07/19/22 14:47	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 14:47	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		07/19/22 14:47	460-00-4	
1,2-Dichlorobenzene-d4 (S)	108	%	70-130		1		07/19/22 14:47	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		07/19/22 14:47	2037-26-5	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-7 **Lab ID: 40248098007** Collected: 07/13/22 07:20 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 09:39	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 09:39	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 09:39	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 09:39	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 09:39	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 09:39	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 09:39	11096-82-5	
PCB, Total	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 09:39	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	92	%	17-141		1	07/21/22 08:22	07/22/22 09:39	877-09-8	
Decachlorobiphenyl (S)	33	%	10-113		1	07/21/22 08:22	07/22/22 09:39	2051-24-3	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis								
Arsenic, Dissolved	**126**	ug/L	0.58	0.17	1	07/18/22 15:40	07/19/22 18:53	7440-38-2	
Barium, Dissolved	**234**	ug/L	0.62	0.19	2	07/18/22 15:40	07/19/22 20:53	7440-39-3	
Cadmium, Dissolved	**<0.022**	ug/L	0.073	0.022	1	07/18/22 15:40	07/19/22 18:53	7440-43-9	
Chromium, Dissolved	**1.7**	ug/L	0.34	0.10	1	07/18/22 15:40	07/19/22 18:53	7440-47-3	
Lead, Dissolved	**<0.14**	ug/L	0.47	0.14	1	07/18/22 15:40	07/19/22 18:53	7439-92-1	
Selenium, Dissolved	**0.75J**	ug/L	1.1	0.33	1	07/18/22 15:40	07/19/22 18:53	7782-49-2	
Silver, Dissolved	**<0.029**	ug/L	0.097	0.029	1	07/18/22 15:40	07/19/22 18:53	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury, Dissolved	**<0.066**	ug/L	0.20	0.066	1	07/21/22 10:50	07/22/22 07:11	7439-97-6	
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**0.087**	ug/L	0.048	0.013	1	07/15/22 08:34	07/18/22 23:39	83-32-9	
Acenaphthylene	**<0.012**	ug/L	0.048	0.012	1	07/15/22 08:34	07/18/22 23:39	208-96-8	
Anthracene	**<0.018**	ug/L	0.048	0.018	1	07/15/22 08:34	07/18/22 23:39	120-12-7	
Benzo(a)anthracene	**<0.013**	ug/L	0.048	0.013	1	07/15/22 08:34	07/18/22 23:39	56-55-3	
Benzo(a)pyrene	**<0.012**	ug/L	0.048	0.012	1	07/15/22 08:34	07/18/22 23:39	50-32-8	
Benzo(b)fluoranthene	**<0.0088**	ug/L	0.048	0.0088	1	07/15/22 08:34	07/18/22 23:39	205-99-2	
Benzo(g,h,i)perylene	**<0.023**	ug/L	0.048	0.023	1	07/15/22 08:34	07/18/22 23:39	191-24-2	
Benzo(k)fluoranthene	**<0.022**	ug/L	0.048	0.022	1	07/15/22 08:34	07/18/22 23:39	207-08-9	
Chrysene	**<0.012**	ug/L	0.048	0.012	1	07/15/22 08:34	07/18/22 23:39	218-01-9	
Dibenz(a,h)anthracene	**<0.017**	ug/L	0.048	0.017	1	07/15/22 08:34	07/18/22 23:39	53-70-3	L2
Fluoranthene	**<0.025**	ug/L	0.048	0.025	1	07/15/22 08:34	07/18/22 23:39	206-44-0	
Fluorene	**<0.023**	ug/L	0.048	0.023	1	07/15/22 08:34	07/18/22 23:39	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.015**	ug/L	0.048	0.015	1	07/15/22 08:34	07/18/22 23:39	193-39-5	
1-Methylnaphthalene	**<0.017**	ug/L	0.048	0.017	1	07/15/22 08:34	07/18/22 23:39	90-12-0	
2-Methylnaphthalene	**<0.013**	ug/L	0.048	0.013	1	07/15/22 08:34	07/18/22 23:39	91-57-6	
Naphthalene	**0.029J**	ug/L	0.048	0.019	1	07/15/22 08:34	07/18/22 23:39	91-20-3	
Phenanthrene	**<0.025**	ug/L	0.048	0.025	1	07/15/22 08:34	07/18/22 23:39	85-01-8	

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-7 **Lab ID: 40248098007** Collected: 07/13/22 07:20 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Pyrene	**<0.022**	ug/L	0.048	0.022	1	07/15/22 08:34	07/18/22 23:39	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	72	%	44-120		1	07/15/22 08:34	07/18/22 23:39	321-60-8	
Terphenyl-d14 (S)	79	%	49-120		1	07/15/22 08:34	07/18/22 23:39	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		07/19/22 15:08	71-43-2	
Bromobenzene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 15:08	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/19/22 15:08	74-97-5	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		07/19/22 15:08	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		07/19/22 15:08	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		07/19/22 15:08	74-83-9	
n-Butylbenzene	**<0.86**	ug/L	1.0	0.86	1		07/19/22 15:08	104-51-8	
sec-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/19/22 15:08	135-98-8	
tert-Butylbenzene	**<0.59**	ug/L	1.0	0.59	1		07/19/22 15:08	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		07/19/22 15:08	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		07/19/22 15:08	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		07/19/22 15:08	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		07/19/22 15:08	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		07/19/22 15:08	74-87-3	
2-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/19/22 15:08	95-49-8	
4-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/19/22 15:08	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		07/19/22 15:08	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		07/19/22 15:08	124-48-1	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		07/19/22 15:08	106-93-4	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		07/19/22 15:08	74-95-3	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		07/19/22 15:08	95-50-1	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 15:08	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		07/19/22 15:08	106-46-7	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		07/19/22 15:08	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 15:08	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		07/19/22 15:08	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		07/19/22 15:08	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		07/19/22 15:08	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		07/19/22 15:08	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		07/19/22 15:08	78-87-5	
1,3-Dichloropropane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 15:08	142-28-9	
2,2-Dichloropropane	**<4.2**	ug/L	5.0	4.2	1		07/19/22 15:08	594-20-7	
1,1-Dichloropropene	**<0.41**	ug/L	1.0	0.41	1		07/19/22 15:08	563-58-6	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 15:08	10061-01-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		07/19/22 15:08	10061-02-6	
Diisopropyl ether	**<1.1**	ug/L	5.0	1.1	1		07/19/22 15:08	108-20-3	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		07/19/22 15:08	100-41-4	
Hexachloro-1,3-butadiene	**<2.7**	ug/L	5.0	2.7	1		07/19/22 15:08	87-68-3	

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(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-7 **Lab ID: 40248098007** Collected: 07/13/22 07:20 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.0**	ug/L	5.0	1.0	1		07/19/22 15:08	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	5.0	1.0	1		07/19/22 15:08	99-87-6	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		07/19/22 15:08	75-09-2	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		07/19/22 15:08	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		07/19/22 15:08	91-20-3	
n-Propylbenzene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 15:08	103-65-1	
Styrene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 15:08	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	1.0	0.36	1		07/19/22 15:08	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		07/19/22 15:08	79-34-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		07/19/22 15:08	127-18-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		07/19/22 15:08	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	5.0	1.0	1		07/19/22 15:08	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		07/19/22 15:08	120-82-1	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 15:08	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		07/19/22 15:08	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		07/19/22 15:08	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		07/19/22 15:08	75-69-4	
1,2,3-Trichloropropane	**<0.56**	ug/L	5.0	0.56	1		07/19/22 15:08	96-18-4	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		07/19/22 15:08	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 15:08	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/19/22 15:08	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		07/19/22 15:08	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		07/19/22 15:08	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 15:08	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		07/19/22 15:08	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		07/19/22 15:08	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		07/19/22 15:08	2037-26-5	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-8 **Lab ID: 40248098008** Collected: 07/13/22 13:35 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 10:00	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 10:00	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 10:00	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 10:00	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 10:00	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 10:00	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 10:00	11096-82-5	
PCB, Total	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 10:00	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	17-141		1	07/21/22 08:22	07/22/22 10:00	877-09-8	
Decachlorobiphenyl (S)	52	%	10-113		1	07/21/22 08:22	07/22/22 10:00	2051-24-3	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis								
Arsenic, Dissolved	**8.0**	ug/L	0.58	0.17	1	07/18/22 15:40	07/19/22 18:58	7440-38-2	
Barium, Dissolved	**96.9**	ug/L	0.31	0.093	1	07/18/22 15:40	07/19/22 18:58	7440-39-3	
Cadmium, Dissolved	**<0.022**	ug/L	0.073	0.022	1	07/18/22 15:40	07/19/22 18:58	7440-43-9	
Chromium, Dissolved	**2.5**	ug/L	0.34	0.10	1	07/18/22 15:40	07/19/22 18:58	7440-47-3	
Lead, Dissolved	**<0.14**	ug/L	0.47	0.14	1	07/18/22 15:40	07/19/22 18:58	7439-92-1	
Selenium, Dissolved	**0.49J**	ug/L	1.1	0.33	1	07/18/22 15:40	07/19/22 18:58	7782-49-2	
Silver, Dissolved	**<0.029**	ug/L	0.097	0.029	1	07/18/22 15:40	07/19/22 18:58	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury, Dissolved	**<0.066**	ug/L	0.20	0.066	1	07/21/22 10:50	07/22/22 07:14	7439-97-6	
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**<0.013**	ug/L	0.048	0.013	1	07/15/22 08:34	07/18/22 23:59	83-32-9	
Acenaphthylene	**<0.012**	ug/L	0.048	0.012	1	07/15/22 08:34	07/18/22 23:59	208-96-8	
Anthracene	**<0.018**	ug/L	0.048	0.018	1	07/15/22 08:34	07/18/22 23:59	120-12-7	
Benzo(a)anthracene	**<0.013**	ug/L	0.048	0.013	1	07/15/22 08:34	07/18/22 23:59	56-55-3	B
Benzo(a)pyrene	**<0.012**	ug/L	0.048	0.012	1	07/15/22 08:34	07/18/22 23:59	50-32-8	
Benzo(b)fluoranthene	**<0.0088**	ug/L	0.048	0.0088	1	07/15/22 08:34	07/18/22 23:59	205-99-2	
Benzo(g,h,i)perylene	**<0.023**	ug/L	0.048	0.023	1	07/15/22 08:34	07/18/22 23:59	191-24-2	
Benzo(k)fluoranthene	**<0.022**	ug/L	0.048	0.022	1	07/15/22 08:34	07/18/22 23:59	207-08-9	
Chrysene	**<0.012**	ug/L	0.048	0.012	1	07/15/22 08:34	07/18/22 23:59	218-01-9	
Dibenz(a,h)anthracene	**<0.017**	ug/L	0.048	0.017	1	07/15/22 08:34	07/18/22 23:59	53-70-3	L2
Fluoranthene	**<0.025**	ug/L	0.048	0.025	1	07/15/22 08:34	07/18/22 23:59	206-44-0	
Fluorene	**<0.023**	ug/L	0.048	0.023	1	07/15/22 08:34	07/18/22 23:59	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.015**	ug/L	0.048	0.015	1	07/15/22 08:34	07/18/22 23:59	193-39-5	
1-Methylnaphthalene	**<0.017**	ug/L	0.048	0.017	1	07/15/22 08:34	07/18/22 23:59	90-12-0	
2-Methylnaphthalene	**<0.013**	ug/L	0.048	0.013	1	07/15/22 08:34	07/18/22 23:59	91-57-6	
Naphthalene	**<0.019**	ug/L	0.048	0.019	1	07/15/22 08:34	07/18/22 23:59	91-20-3	
Phenanthrene	**0.032J**	ug/L	0.048	0.025	1	07/15/22 08:34	07/18/22 23:59	85-01-8	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-8 **Lab ID: 40248098008** Collected: 07/13/22 13:35 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Pyrene	**<0.022**	ug/L	0.048	0.022	1	07/15/22 08:34	07/18/22 23:59	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	78	%	44-120		1	07/15/22 08:34	07/18/22 23:59	321-60-8	
Terphenyl-d14 (S)	82	%	49-120		1	07/15/22 08:34	07/18/22 23:59	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		07/19/22 15:29	71-43-2	
Bromobenzene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 15:29	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/19/22 15:29	74-97-5	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		07/19/22 15:29	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		07/19/22 15:29	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		07/19/22 15:29	74-83-9	
n-Butylbenzene	**<0.86**	ug/L	1.0	0.86	1		07/19/22 15:29	104-51-8	
sec-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/19/22 15:29	135-98-8	
tert-Butylbenzene	**<0.59**	ug/L	1.0	0.59	1		07/19/22 15:29	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		07/19/22 15:29	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		07/19/22 15:29	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		07/19/22 15:29	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		07/19/22 15:29	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		07/19/22 15:29	74-87-3	
2-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/19/22 15:29	95-49-8	
4-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/19/22 15:29	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		07/19/22 15:29	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		07/19/22 15:29	124-48-1	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		07/19/22 15:29	106-93-4	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		07/19/22 15:29	74-95-3	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		07/19/22 15:29	95-50-1	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 15:29	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		07/19/22 15:29	106-46-7	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		07/19/22 15:29	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 15:29	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		07/19/22 15:29	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		07/19/22 15:29	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		07/19/22 15:29	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		07/19/22 15:29	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		07/19/22 15:29	78-87-5	
1,3-Dichloropropane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 15:29	142-28-9	
2,2-Dichloropropane	**<4.2**	ug/L	5.0	4.2	1		07/19/22 15:29	594-20-7	
1,1-Dichloropropene	**<0.41**	ug/L	1.0	0.41	1		07/19/22 15:29	563-58-6	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 15:29	10061-01-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		07/19/22 15:29	10061-02-6	
Diisopropyl ether	**<1.1**	ug/L	5.0	1.1	1		07/19/22 15:29	108-20-3	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		07/19/22 15:29	100-41-4	
Hexachloro-1,3-butadiene	**<2.7**	ug/L	5.0	2.7	1		07/19/22 15:29	87-68-3	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-8 **Lab ID: 40248098008** Collected: 07/13/22 13:35 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.0**	ug/L	5.0	1.0	1		07/19/22 15:29	98-82-8	
p-Isopropyltoluene	**1.5J**	ug/L	5.0	1.0	1		07/19/22 15:29	99-87-6	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		07/19/22 15:29	75-09-2	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		07/19/22 15:29	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		07/19/22 15:29	91-20-3	
n-Propylbenzene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 15:29	103-65-1	
Styrene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 15:29	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	1.0	0.36	1		07/19/22 15:29	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		07/19/22 15:29	79-34-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		07/19/22 15:29	127-18-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		07/19/22 15:29	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	5.0	1.0	1		07/19/22 15:29	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		07/19/22 15:29	120-82-1	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 15:29	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		07/19/22 15:29	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		07/19/22 15:29	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		07/19/22 15:29	75-69-4	
1,2,3-Trichloropropane	**<0.56**	ug/L	5.0	0.56	1		07/19/22 15:29	96-18-4	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		07/19/22 15:29	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 15:29	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/19/22 15:29	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		07/19/22 15:29	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		07/19/22 15:29	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 15:29	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		07/19/22 15:29	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		07/19/22 15:29	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		07/19/22 15:29	2037-26-5	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-9 **Lab ID: 40248098009** Collected: 07/12/22 08:30 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 10:20	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 10:20	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 10:20	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 10:20	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 10:20	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 10:20	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 10:20	11096-82-5	
PCB, Total	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 10:20	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	94	%	17-141		1	07/21/22 08:22	07/22/22 10:20	877-09-8	
Decachlorobiphenyl (S)	50	%	10-113		1	07/21/22 08:22	07/22/22 10:20	2051-24-3	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis								
Arsenic, Dissolved	**5.9**	ug/L	0.58	0.17	1	07/18/22 15:40	07/19/22 19:12	7440-38-2	
Barium, Dissolved	**621**	ug/L	1.5	0.46	5	07/18/22 15:40	07/19/22 20:58	7440-39-3	
Cadmium, Dissolved	**<0.022**	ug/L	0.073	0.022	1	07/18/22 15:40	07/19/22 19:12	7440-43-9	
Chromium, Dissolved	**1.8**	ug/L	0.34	0.10	1	07/18/22 15:40	07/19/22 19:12	7440-47-3	
Lead, Dissolved	**<0.14**	ug/L	0.47	0.14	1	07/18/22 15:40	07/19/22 19:12	7439-92-1	
Selenium, Dissolved	**0.94J**	ug/L	1.1	0.33	1	07/18/22 15:40	07/19/22 19:12	7782-49-2	
Silver, Dissolved	**<0.029**	ug/L	0.097	0.029	1	07/18/22 15:40	07/19/22 19:12	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury, Dissolved	**<0.066**	ug/L	0.20	0.066	1	07/21/22 10:50	07/22/22 07:16	7439-97-6	
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**0.38**	ug/L	0.051	0.014	1	07/15/22 08:34	07/19/22 00:19	83-32-9	
Acenaphthylene	**<0.013**	ug/L	0.051	0.013	1	07/15/22 08:34	07/19/22 00:19	208-96-8	
Anthracene	**<0.019**	ug/L	0.051	0.019	1	07/15/22 08:34	07/19/22 00:19	120-12-7	
Benzo(a)anthracene	**<0.014**	ug/L	0.051	0.014	1	07/15/22 08:34	07/19/22 00:19	56-55-3	
Benzo(a)pyrene	**<0.013**	ug/L	0.051	0.013	1	07/15/22 08:34	07/19/22 00:19	50-32-8	
Benzo(b)fluoranthene	**<0.0093**	ug/L	0.051	0.0093	1	07/15/22 08:34	07/19/22 00:19	205-99-2	
Benzo(g,h,i)perylene	**<0.024**	ug/L	0.051	0.024	1	07/15/22 08:34	07/19/22 00:19	191-24-2	
Benzo(k)fluoranthene	**<0.023**	ug/L	0.051	0.023	1	07/15/22 08:34	07/19/22 00:19	207-08-9	
Chrysene	**<0.013**	ug/L	0.051	0.013	1	07/15/22 08:34	07/19/22 00:19	218-01-9	
Dibenz(a,h)anthracene	**<0.018**	ug/L	0.051	0.018	1	07/15/22 08:34	07/19/22 00:19	53-70-3	L2
Fluoranthene	**<0.027**	ug/L	0.051	0.027	1	07/15/22 08:34	07/19/22 00:19	206-44-0	
Fluorene	**<0.024**	ug/L	0.051	0.024	1	07/15/22 08:34	07/19/22 00:19	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.016**	ug/L	0.051	0.016	1	07/15/22 08:34	07/19/22 00:19	193-39-5	
1-Methylnaphthalene	**<0.018**	ug/L	0.051	0.018	1	07/15/22 08:34	07/19/22 00:19	90-12-0	
2-Methylnaphthalene	**<0.014**	ug/L	0.051	0.014	1	07/15/22 08:34	07/19/22 00:19	91-57-6	
Naphthalene	**<0.020**	ug/L	0.051	0.020	1	07/15/22 08:34	07/19/22 00:19	91-20-3	
Phenanthrene	**<0.026**	ug/L	0.051	0.026	1	07/15/22 08:34	07/19/22 00:19	85-01-8	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-9 **Lab ID: 40248098009** Collected: 07/12/22 08:30 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Pyrene	**<0.023**	ug/L	0.051	0.023	1	07/15/22 08:34	07/19/22 00:19	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	71	%	44-120		1	07/15/22 08:34	07/19/22 00:19	321-60-8	
Terphenyl-d14 (S)	75	%	49-120		1	07/15/22 08:34	07/19/22 00:19	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		07/19/22 15:49	71-43-2	
Bromobenzene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 15:49	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/19/22 15:49	74-97-5	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		07/19/22 15:49	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		07/19/22 15:49	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		07/19/22 15:49	74-83-9	
n-Butylbenzene	**<0.86**	ug/L	1.0	0.86	1		07/19/22 15:49	104-51-8	
sec-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/19/22 15:49	135-98-8	
tert-Butylbenzene	**<0.59**	ug/L	1.0	0.59	1		07/19/22 15:49	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		07/19/22 15:49	56-23-5	
Chlorobenzene	**1.7**	ug/L	1.0	0.86	1		07/19/22 15:49	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		07/19/22 15:49	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		07/19/22 15:49	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		07/19/22 15:49	74-87-3	
2-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/19/22 15:49	95-49-8	
4-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/19/22 15:49	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		07/19/22 15:49	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		07/19/22 15:49	124-48-1	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		07/19/22 15:49	106-93-4	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		07/19/22 15:49	74-95-3	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		07/19/22 15:49	95-50-1	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 15:49	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		07/19/22 15:49	106-46-7	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		07/19/22 15:49	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 15:49	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		07/19/22 15:49	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		07/19/22 15:49	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		07/19/22 15:49	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		07/19/22 15:49	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		07/19/22 15:49	78-87-5	
1,3-Dichloropropane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 15:49	142-28-9	
2,2-Dichloropropane	**<4.2**	ug/L	5.0	4.2	1		07/19/22 15:49	594-20-7	
1,1-Dichloropropene	**<0.41**	ug/L	1.0	0.41	1		07/19/22 15:49	563-58-6	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 15:49	10061-01-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		07/19/22 15:49	10061-02-6	
Diisopropyl ether	**<1.1**	ug/L	5.0	1.1	1		07/19/22 15:49	108-20-3	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		07/19/22 15:49	100-41-4	
Hexachloro-1,3-butadiene	**<2.7**	ug/L	5.0	2.7	1		07/19/22 15:49	87-68-3	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-9 **Lab ID: 40248098009** Collected: 07/12/22 08:30 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.0**	ug/L	5.0	1.0	1		07/19/22 15:49	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	5.0	1.0	1		07/19/22 15:49	99-87-6	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		07/19/22 15:49	75-09-2	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		07/19/22 15:49	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		07/19/22 15:49	91-20-3	
n-Propylbenzene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 15:49	103-65-1	
Styrene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 15:49	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	1.0	0.36	1		07/19/22 15:49	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		07/19/22 15:49	79-34-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		07/19/22 15:49	127-18-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		07/19/22 15:49	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	5.0	1.0	1		07/19/22 15:49	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		07/19/22 15:49	120-82-1	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 15:49	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		07/19/22 15:49	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		07/19/22 15:49	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		07/19/22 15:49	75-69-4	
1,2,3-Trichloropropane	**<0.56**	ug/L	5.0	0.56	1		07/19/22 15:49	96-18-4	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		07/19/22 15:49	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 15:49	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/19/22 15:49	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		07/19/22 15:49	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		07/19/22 15:49	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 15:49	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		07/19/22 15:49	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		07/19/22 15:49	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		07/19/22 15:49	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-10 **Lab ID: 40248098010** Collected: 07/12/22 13:05 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 11:02	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 11:02	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 11:02	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 11:02	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 11:02	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 11:02	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 11:02	11096-82-5	
PCB, Total	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 11:02	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	17-141		1	07/21/22 08:22	07/22/22 11:02	877-09-8	
Decachlorobiphenyl (S)	61	%	10-113		1	07/21/22 08:22	07/22/22 11:02	2051-24-3	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis								
Arsenic, Dissolved	**23.2**	ug/L	0.58	0.17	1	07/18/22 15:40	07/19/22 19:17	7440-38-2	
Barium, Dissolved	**251**	ug/L	0.62	0.19	2	07/18/22 15:40	07/19/22 21:02	7440-39-3	
Cadmium, Dissolved	**<0.022**	ug/L	0.073	0.022	1	07/18/22 15:40	07/19/22 19:17	7440-43-9	
Chromium, Dissolved	**1.5**	ug/L	0.34	0.10	1	07/18/22 15:40	07/19/22 19:17	7440-47-3	
Lead, Dissolved	**<0.14**	ug/L	0.47	0.14	1	07/18/22 15:40	07/19/22 19:17	7439-92-1	
Selenium, Dissolved	**0.89J**	ug/L	1.1	0.33	1	07/18/22 15:40	07/19/22 19:17	7782-49-2	
Silver, Dissolved	**<0.029**	ug/L	0.097	0.029	1	07/18/22 15:40	07/19/22 19:17	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury, Dissolved	**<0.066**	ug/L	0.20	0.066	1	07/21/22 10:50	07/22/22 07:18	7439-97-6	
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**3.8**	ug/L	0.048	0.013	1	07/15/22 08:34	07/19/22 00:39	83-32-9	
Acenaphthylene	**0.018J**	ug/L	0.048	0.012	1	07/15/22 08:34	07/19/22 00:39	208-96-8	
Anthracene	**0.026J**	ug/L	0.048	0.018	1	07/15/22 08:34	07/19/22 00:39	120-12-7	
Benzo(a)anthracene	**<0.013**	ug/L	0.048	0.013	1	07/15/22 08:34	07/19/22 00:39	56-55-3	
Benzo(a)pyrene	**<0.012**	ug/L	0.048	0.012	1	07/15/22 08:34	07/19/22 00:39	50-32-8	
Benzo(b)fluoranthene	**<0.0088**	ug/L	0.048	0.0088	1	07/15/22 08:34	07/19/22 00:39	205-99-2	
Benzo(g,h,i)perylene	**<0.022**	ug/L	0.048	0.022	1	07/15/22 08:34	07/19/22 00:39	191-24-2	
Benzo(k)fluoranthene	**<0.021**	ug/L	0.048	0.021	1	07/15/22 08:34	07/19/22 00:39	207-08-9	
Chrysene	**<0.012**	ug/L	0.048	0.012	1	07/15/22 08:34	07/19/22 00:39	218-01-9	
Dibenz(a,h)anthracene	**<0.017**	ug/L	0.048	0.017	1	07/15/22 08:34	07/19/22 00:39	53-70-3	L2
Fluoranthene	**<0.025**	ug/L	0.048	0.025	1	07/15/22 08:34	07/19/22 00:39	206-44-0	
Fluorene	**0.68**	ug/L	0.048	0.023	1	07/15/22 08:34	07/19/22 00:39	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.015**	ug/L	0.048	0.015	1	07/15/22 08:34	07/19/22 00:39	193-39-5	
1-Methylnaphthalene	**4.7**	ug/L	0.048	0.017	1	07/15/22 08:34	07/19/22 00:39	90-12-0	
2-Methylnaphthalene	**<0.013**	ug/L	0.048	0.013	1	07/15/22 08:34	07/19/22 00:39	91-57-6	
Naphthalene	**0.045J**	ug/L	0.048	0.019	1	07/15/22 08:34	07/19/22 00:39	91-20-3	
Phenanthrene	**0.15**	ug/L	0.048	0.025	1	07/15/22 08:34	07/19/22 00:39	85-01-8	

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-10 **Lab ID: 40248098010** Collected: 07/12/22 13:05 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Pyrene	**<0.022**	ug/L	0.048	0.022	1	07/15/22 08:34	07/19/22 00:39	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	78	%	44-120		1	07/15/22 08:34	07/19/22 00:39	321-60-8	
Terphenyl-d14 (S)	81	%	49-120		1	07/15/22 08:34	07/19/22 00:39	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		07/19/22 16:10	71-43-2	
Bromobenzene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 16:10	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/19/22 16:10	74-97-5	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		07/19/22 16:10	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		07/19/22 16:10	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		07/19/22 16:10	74-83-9	
n-Butylbenzene	**<0.86**	ug/L	1.0	0.86	1		07/19/22 16:10	104-51-8	
sec-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/19/22 16:10	135-98-8	
tert-Butylbenzene	**<0.59**	ug/L	1.0	0.59	1		07/19/22 16:10	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		07/19/22 16:10	56-23-5	
Chlorobenzene	**1.1**	ug/L	1.0	0.86	1		07/19/22 16:10	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		07/19/22 16:10	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		07/19/22 16:10	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		07/19/22 16:10	74-87-3	
2-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/19/22 16:10	95-49-8	
4-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/19/22 16:10	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		07/19/22 16:10	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		07/19/22 16:10	124-48-1	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		07/19/22 16:10	106-93-4	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		07/19/22 16:10	74-95-3	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		07/19/22 16:10	95-50-1	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 16:10	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		07/19/22 16:10	106-46-7	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		07/19/22 16:10	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 16:10	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		07/19/22 16:10	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		07/19/22 16:10	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		07/19/22 16:10	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		07/19/22 16:10	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		07/19/22 16:10	78-87-5	
1,3-Dichloropropane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 16:10	142-28-9	
2,2-Dichloropropane	**<4.2**	ug/L	5.0	4.2	1		07/19/22 16:10	594-20-7	
1,1-Dichloropropene	**<0.41**	ug/L	1.0	0.41	1		07/19/22 16:10	563-58-6	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 16:10	10061-01-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		07/19/22 16:10	10061-02-6	
Diisopropyl ether	**<1.1**	ug/L	5.0	1.1	1		07/19/22 16:10	108-20-3	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		07/19/22 16:10	100-41-4	
Hexachloro-1,3-butadiene	**<2.7**	ug/L	5.0	2.7	1		07/19/22 16:10	87-68-3	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-10 **Lab ID: 40248098010** Collected: 07/12/22 13:05 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.0**	ug/L	5.0	1.0	1		07/19/22 16:10	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	5.0	1.0	1		07/19/22 16:10	99-87-6	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		07/19/22 16:10	75-09-2	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		07/19/22 16:10	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		07/19/22 16:10	91-20-3	
n-Propylbenzene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 16:10	103-65-1	
Styrene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 16:10	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	1.0	0.36	1		07/19/22 16:10	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		07/19/22 16:10	79-34-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		07/19/22 16:10	127-18-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		07/19/22 16:10	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	5.0	1.0	1		07/19/22 16:10	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		07/19/22 16:10	120-82-1	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 16:10	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		07/19/22 16:10	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		07/19/22 16:10	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		07/19/22 16:10	75-69-4	
1,2,3-Trichloropropane	**<0.56**	ug/L	5.0	0.56	1		07/19/22 16:10	96-18-4	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		07/19/22 16:10	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 16:10	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/19/22 16:10	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		07/19/22 16:10	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		07/19/22 16:10	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 16:10	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		07/19/22 16:10	460-00-4	
1,2-Dichlorobenzene-d4 (S)	112	%	70-130		1		07/19/22 16:10	2199-69-1	
Toluene-d8 (S)	96	%	70-130		1		07/19/22 16:10	2037-26-5	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-11 **Lab ID: 40248098011** Collected: 07/13/22 08:15 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 11:22	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 11:22	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 11:22	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 11:22	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 11:22	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 11:22	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 11:22	11096-82-5	
PCB, Total	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 11:22	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	93	%	17-141		1	07/21/22 08:22	07/22/22 11:22	877-09-8	
Decachlorobiphenyl (S)	56	%	10-113		1	07/21/22 08:22	07/22/22 11:22	2051-24-3	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis								
Arsenic, Dissolved	**45.7**	ug/L	0.58	0.17	1	07/18/22 15:40	07/19/22 19:21	7440-38-2	
Barium, Dissolved	**439**	ug/L	1.5	0.46	5	07/18/22 15:40	07/19/22 21:17	7440-39-3	
Cadmium, Dissolved	**<0.022**	ug/L	0.073	0.022	1	07/18/22 15:40	07/19/22 19:21	7440-43-9	
Chromium, Dissolved	**0.99**	ug/L	0.34	0.10	1	07/18/22 15:40	07/19/22 19:21	7440-47-3	
Lead, Dissolved	**<0.14**	ug/L	0.47	0.14	1	07/18/22 15:40	07/19/22 19:21	7439-92-1	
Selenium, Dissolved	**0.67J**	ug/L	1.1	0.33	1	07/18/22 15:40	07/19/22 19:21	7782-49-2	
Silver, Dissolved	**<0.029**	ug/L	0.097	0.029	1	07/18/22 15:40	07/19/22 19:21	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury, Dissolved	**<0.066**	ug/L	0.20	0.066	1	07/21/22 10:50	07/22/22 07:21	7439-97-6	
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**0.39**	ug/L	0.048	0.013	1	07/15/22 08:34	07/19/22 09:10	83-32-9	
Acenaphthylene	**<0.012**	ug/L	0.048	0.012	1	07/15/22 08:34	07/19/22 09:10	208-96-8	
Anthracene	**0.039J**	ug/L	0.048	0.018	1	07/15/22 08:34	07/19/22 09:10	120-12-7	
Benzo(a)anthracene	**<0.013**	ug/L	0.048	0.013	1	07/15/22 08:34	07/19/22 09:10	56-55-3	
Benzo(a)pyrene	**<0.012**	ug/L	0.048	0.012	1	07/15/22 08:34	07/19/22 09:10	50-32-8	
Benzo(b)fluoranthene	**<0.0087**	ug/L	0.048	0.0087	1	07/15/22 08:34	07/19/22 09:10	205-99-2	
Benzo(g,h,i)perylene	**<0.022**	ug/L	0.048	0.022	1	07/15/22 08:34	07/19/22 09:10	191-24-2	
Benzo(k)fluoranthene	**<0.021**	ug/L	0.048	0.021	1	07/15/22 08:34	07/19/22 09:10	207-08-9	
Chrysene	**<0.012**	ug/L	0.048	0.012	1	07/15/22 08:34	07/19/22 09:10	218-01-9	
Dibenz(a,h)anthracene	**<0.017**	ug/L	0.048	0.017	1	07/15/22 08:34	07/19/22 09:10	53-70-3	L2
Fluoranthene	**0.035J**	ug/L	0.048	0.025	1	07/15/22 08:34	07/19/22 09:10	206-44-0	
Fluorene	**0.044J**	ug/L	0.048	0.022	1	07/15/22 08:34	07/19/22 09:10	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.015**	ug/L	0.048	0.015	1	07/15/22 08:34	07/19/22 09:10	193-39-5	
1-Methylnaphthalene	**0.037J**	ug/L	0.048	0.017	1	07/15/22 08:34	07/19/22 09:10	90-12-0	
2-Methylnaphthalene	**0.019J**	ug/L	0.048	0.013	1	07/15/22 08:34	07/19/22 09:10	91-57-6	
Naphthalene	**0.024J**	ug/L	0.048	0.019	1	07/15/22 08:34	07/19/22 09:10	91-20-3	
Phenanthrene	**0.14**	ug/L	0.048	0.024	1	07/15/22 08:34	07/19/22 09:10	85-01-8	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-11 **Lab ID: 40248098011** Collected: 07/13/22 08:15 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Pyrene	**0.025J**	ug/L	0.048	0.021	1	07/15/22 08:34	07/19/22 09:10	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	70	%	44-120		1	07/15/22 08:34	07/19/22 09:10	321-60-8	
Terphenyl-d14 (S)	75	%	49-120		1	07/15/22 08:34	07/19/22 09:10	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		07/19/22 16:31	71-43-2	
Bromobenzene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 16:31	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/19/22 16:31	74-97-5	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		07/19/22 16:31	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		07/19/22 16:31	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		07/19/22 16:31	74-83-9	
n-Butylbenzene	**<0.86**	ug/L	1.0	0.86	1		07/19/22 16:31	104-51-8	
sec-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/19/22 16:31	135-98-8	
tert-Butylbenzene	**<0.59**	ug/L	1.0	0.59	1		07/19/22 16:31	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		07/19/22 16:31	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		07/19/22 16:31	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		07/19/22 16:31	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		07/19/22 16:31	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		07/19/22 16:31	74-87-3	
2-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/19/22 16:31	95-49-8	
4-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/19/22 16:31	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		07/19/22 16:31	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		07/19/22 16:31	124-48-1	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		07/19/22 16:31	106-93-4	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		07/19/22 16:31	74-95-3	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		07/19/22 16:31	95-50-1	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 16:31	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		07/19/22 16:31	106-46-7	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		07/19/22 16:31	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 16:31	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		07/19/22 16:31	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		07/19/22 16:31	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		07/19/22 16:31	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		07/19/22 16:31	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		07/19/22 16:31	78-87-5	
1,3-Dichloropropane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 16:31	142-28-9	
2,2-Dichloropropane	**<4.2**	ug/L	5.0	4.2	1		07/19/22 16:31	594-20-7	
1,1-Dichloropropene	**<0.41**	ug/L	1.0	0.41	1		07/19/22 16:31	563-58-6	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 16:31	10061-01-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		07/19/22 16:31	10061-02-6	
Diisopropyl ether	**<1.1**	ug/L	5.0	1.1	1		07/19/22 16:31	108-20-3	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		07/19/22 16:31	100-41-4	
Hexachloro-1,3-butadiene	**<2.7**	ug/L	5.0	2.7	1		07/19/22 16:31	87-68-3	

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-11 **Lab ID: 40248098011** Collected: 07/13/22 08:15 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.0**	ug/L	5.0	1.0	1		07/19/22 16:31	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	5.0	1.0	1		07/19/22 16:31	99-87-6	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		07/19/22 16:31	75-09-2	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		07/19/22 16:31	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		07/19/22 16:31	91-20-3	
n-Propylbenzene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 16:31	103-65-1	
Styrene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 16:31	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	1.0	0.36	1		07/19/22 16:31	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		07/19/22 16:31	79-34-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		07/19/22 16:31	127-18-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		07/19/22 16:31	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	5.0	1.0	1		07/19/22 16:31	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		07/19/22 16:31	120-82-1	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 16:31	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		07/19/22 16:31	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		07/19/22 16:31	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		07/19/22 16:31	75-69-4	
1,2,3-Trichloropropane	**<0.56**	ug/L	5.0	0.56	1		07/19/22 16:31	96-18-4	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		07/19/22 16:31	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 16:31	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/19/22 16:31	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		07/19/22 16:31	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		07/19/22 16:31	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 16:31	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		07/19/22 16:31	460-00-4	
1,2-Dichlorobenzene-d4 (S)	108	%	70-130		1		07/19/22 16:31	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		07/19/22 16:31	2037-26-5	

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-12 **Lab ID: 40248098012** Collected: 07/13/22 12:25 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<0.11**	ug/L	0.48	0.11	1	07/21/22 08:22	07/22/22 11:43	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.11**	ug/L	0.48	0.11	1	07/21/22 08:22	07/22/22 11:43	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.11**	ug/L	0.48	0.11	1	07/21/22 08:22	07/22/22 11:43	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.11**	ug/L	0.48	0.11	1	07/21/22 08:22	07/22/22 11:43	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.11**	ug/L	0.48	0.11	1	07/21/22 08:22	07/22/22 11:43	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.11**	ug/L	0.48	0.11	1	07/21/22 08:22	07/22/22 11:43	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.11**	ug/L	0.48	0.11	1	07/21/22 08:22	07/22/22 11:43	11096-82-5	
PCB, Total	**<0.11**	ug/L	0.48	0.11	1	07/21/22 08:22	07/22/22 11:43	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	17-141		1	07/21/22 08:22	07/22/22 11:43	877-09-8	
Decachlorobiphenyl (S)	61	%	10-113		1	07/21/22 08:22	07/22/22 11:43	2051-24-3	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis								
Arsenic, Dissolved	**1.9**	ug/L	0.58	0.17	1	07/18/22 15:40	07/19/22 19:26	7440-38-2	
Barium, Dissolved	**58.3**	ug/L	0.31	0.093	1	07/18/22 15:40	07/19/22 19:26	7440-39-3	
Cadmium, Dissolved	**<0.022**	ug/L	0.073	0.022	1	07/18/22 15:40	07/19/22 19:26	7440-43-9	
Chromium, Dissolved	**1.1**	ug/L	0.34	0.10	1	07/18/22 15:40	07/19/22 19:26	7440-47-3	
Lead, Dissolved	**<0.14**	ug/L	0.47	0.14	1	07/18/22 15:40	07/19/22 19:26	7439-92-1	
Selenium, Dissolved	**0.40J**	ug/L	1.1	0.33	1	07/18/22 15:40	07/19/22 19:26	7782-49-2	
Silver, Dissolved	**<0.029**	ug/L	0.097	0.029	1	07/18/22 15:40	07/19/22 19:26	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury, Dissolved	**<0.066**	ug/L	0.20	0.066	1	07/21/22 10:50	07/22/22 07:23	7439-97-6	
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**5.7**	ug/L	0.047	0.013	1	07/15/22 08:34	07/19/22 09:30	83-32-9	
Acenaphthylene	**0.026J**	ug/L	0.047	0.012	1	07/15/22 08:34	07/19/22 09:30	208-96-8	
Anthracene	**0.24**	ug/L	0.047	0.017	1	07/15/22 08:34	07/19/22 09:30	120-12-7	
Benzo(a)anthracene	**0.035J**	ug/L	0.047	0.013	1	07/15/22 08:34	07/19/22 09:30	56-55-3	B
Benzo(a)pyrene	**0.017J**	ug/L	0.047	0.012	1	07/15/22 08:34	07/19/22 09:30	50-32-8	
Benzo(b)fluoranthene	**0.020J**	ug/L	0.047	0.0086	1	07/15/22 08:34	07/19/22 09:30	205-99-2	
Benzo(g,h,i)perylene	**<0.022**	ug/L	0.047	0.022	1	07/15/22 08:34	07/19/22 09:30	191-24-2	
Benzo(k)fluoranthene	**<0.021**	ug/L	0.047	0.021	1	07/15/22 08:34	07/19/22 09:30	207-08-9	
Chrysene	**0.028J**	ug/L	0.047	0.012	1	07/15/22 08:34	07/19/22 09:30	218-01-9	
Dibenz(a,h)anthracene	**<0.017**	ug/L	0.047	0.017	1	07/15/22 08:34	07/19/22 09:30	53-70-3	L2
Fluoranthene	**0.29**	ug/L	0.047	0.025	1	07/15/22 08:34	07/19/22 09:30	206-44-0	
Fluorene	**1.1**	ug/L	0.047	0.022	1	07/15/22 08:34	07/19/22 09:30	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.015**	ug/L	0.047	0.015	1	07/15/22 08:34	07/19/22 09:30	193-39-5	
1-Methylnaphthalene	**2.6**	ug/L	0.047	0.017	1	07/15/22 08:34	07/19/22 09:30	90-12-0	
2-Methylnaphthalene	**0.70**	ug/L	0.047	0.013	1	07/15/22 08:34	07/19/22 09:30	91-57-6	
Naphthalene	**0.087**	ug/L	0.047	0.019	1	07/15/22 08:34	07/19/22 09:30	91-20-3	
Phenanthrene	**1.5**	ug/L	0.047	0.024	1	07/15/22 08:34	07/19/22 09:30	85-01-8	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-12 **Lab ID: 40248098012** Collected: 07/13/22 12:25 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Pyrene	**0.23**	ug/L	0.047	0.021	1	07/15/22 08:34	07/19/22 09:30	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	75	%	44-120		1	07/15/22 08:34	07/19/22 09:30	321-60-8	
Terphenyl-d14 (S)	79	%	49-120		1	07/15/22 08:34	07/19/22 09:30	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		07/19/22 16:52	71-43-2	
Bromobenzene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 16:52	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/19/22 16:52	74-97-5	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		07/19/22 16:52	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		07/19/22 16:52	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		07/19/22 16:52	74-83-9	
n-Butylbenzene	**<0.86**	ug/L	1.0	0.86	1		07/19/22 16:52	104-51-8	
sec-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/19/22 16:52	135-98-8	
tert-Butylbenzene	**<0.59**	ug/L	1.0	0.59	1		07/19/22 16:52	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		07/19/22 16:52	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		07/19/22 16:52	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		07/19/22 16:52	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		07/19/22 16:52	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		07/19/22 16:52	74-87-3	
2-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/19/22 16:52	95-49-8	
4-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/19/22 16:52	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		07/19/22 16:52	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		07/19/22 16:52	124-48-1	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		07/19/22 16:52	106-93-4	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		07/19/22 16:52	74-95-3	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		07/19/22 16:52	95-50-1	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 16:52	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		07/19/22 16:52	106-46-7	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		07/19/22 16:52	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 16:52	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		07/19/22 16:52	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		07/19/22 16:52	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		07/19/22 16:52	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		07/19/22 16:52	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		07/19/22 16:52	78-87-5	
1,3-Dichloropropane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 16:52	142-28-9	
2,2-Dichloropropane	**<4.2**	ug/L	5.0	4.2	1		07/19/22 16:52	594-20-7	
1,1-Dichloropropene	**<0.41**	ug/L	1.0	0.41	1		07/19/22 16:52	563-58-6	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 16:52	10061-01-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		07/19/22 16:52	10061-02-6	
Diisopropyl ether	**<1.1**	ug/L	5.0	1.1	1		07/19/22 16:52	108-20-3	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		07/19/22 16:52	100-41-4	
Hexachloro-1,3-butadiene	**<2.7**	ug/L	5.0	2.7	1		07/19/22 16:52	87-68-3	

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-12 **Lab ID: 40248098012** Collected: 07/13/22 12:25 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.0**	ug/L	5.0	1.0	1		07/19/22 16:52	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	5.0	1.0	1		07/19/22 16:52	99-87-6	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		07/19/22 16:52	75-09-2	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		07/19/22 16:52	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		07/19/22 16:52	91-20-3	
n-Propylbenzene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 16:52	103-65-1	
Styrene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 16:52	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	1.0	0.36	1		07/19/22 16:52	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		07/19/22 16:52	79-34-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		07/19/22 16:52	127-18-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		07/19/22 16:52	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	5.0	1.0	1		07/19/22 16:52	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		07/19/22 16:52	120-82-1	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 16:52	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		07/19/22 16:52	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		07/19/22 16:52	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		07/19/22 16:52	75-69-4	
1,2,3-Trichloropropane	**<0.56**	ug/L	5.0	0.56	1		07/19/22 16:52	96-18-4	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		07/19/22 16:52	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 16:52	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/19/22 16:52	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		07/19/22 16:52	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		07/19/22 16:52	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 16:52	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		07/19/22 16:52	460-00-4	
1,2-Dichlorobenzene-d4 (S)	113	%	70-130		1		07/19/22 16:52	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		07/19/22 16:52	2037-26-5	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-13 **Lab ID: 40248098013** Collected: 07/12/22 07:20 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 12:03	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 12:03	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 12:03	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 12:03	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 12:03	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 12:03	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 12:03	11096-82-5	
PCB, Total	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 12:03	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	17-141		1	07/21/22 08:22	07/22/22 12:03	877-09-8	
Decachlorobiphenyl (S)	49	%	10-113		1	07/21/22 08:22	07/22/22 12:03	2051-24-3	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis								
Arsenic, Dissolved	**15.9**	ug/L	0.58	0.17	1	07/18/22 15:40	07/19/22 19:41	7440-38-2	
Barium, Dissolved	**574**	ug/L	1.5	0.46	5	07/18/22 15:40	07/19/22 21:22	7440-39-3	
Cadmium, Dissolved	**<0.022**	ug/L	0.073	0.022	1	07/18/22 15:40	07/19/22 19:41	7440-43-9	
Chromium, Dissolved	**1.4**	ug/L	0.34	0.10	1	07/18/22 15:40	07/19/22 19:41	7440-47-3	
Lead, Dissolved	**<0.14**	ug/L	0.47	0.14	1	07/18/22 15:40	07/19/22 19:41	7439-92-1	
Selenium, Dissolved	**0.53J**	ug/L	1.1	0.33	1	07/18/22 15:40	07/19/22 19:41	7782-49-2	
Silver, Dissolved	**<0.029**	ug/L	0.097	0.029	1	07/18/22 15:40	07/19/22 19:41	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury, Dissolved	**<0.066**	ug/L	0.20	0.066	1	07/21/22 10:50	07/22/22 07:25	7439-97-6	
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**0.23**	ug/L	0.050	0.014	1	07/15/22 08:34	07/19/22 09:50	83-32-9	
Acenaphthylene	**0.021J**	ug/L	0.050	0.013	1	07/15/22 08:34	07/19/22 09:50	208-96-8	
Anthracene	**0.18**	ug/L	0.050	0.019	1	07/15/22 08:34	07/19/22 09:50	120-12-7	
Benzo(a)anthracene	**0.086**	ug/L	0.050	0.014	1	07/15/22 08:34	07/19/22 09:50	56-55-3	B
Benzo(a)pyrene	**0.066**	ug/L	0.050	0.013	1	07/15/22 08:34	07/19/22 09:50	50-32-8	
Benzo(b)fluoranthene	**0.078**	ug/L	0.050	0.0091	1	07/15/22 08:34	07/19/22 09:50	205-99-2	
Benzo(g,h,i)perylene	**0.046J**	ug/L	0.050	0.023	1	07/15/22 08:34	07/19/22 09:50	191-24-2	
Benzo(k)fluoranthene	**0.026J**	ug/L	0.050	0.022	1	07/15/22 08:34	07/19/22 09:50	207-08-9	
Chrysene	**0.083**	ug/L	0.050	0.013	1	07/15/22 08:34	07/19/22 09:50	218-01-9	
Dibenz(a,h)anthracene	**<0.018**	ug/L	0.050	0.018	1	07/15/22 08:34	07/19/22 09:50	53-70-3	L2
Fluoranthene	**0.42**	ug/L	0.050	0.026	1	07/15/22 08:34	07/19/22 09:50	206-44-0	
Fluorene	**0.16**	ug/L	0.050	0.024	1	07/15/22 08:34	07/19/22 09:50	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.038J**	ug/L	0.050	0.016	1	07/15/22 08:34	07/19/22 09:50	193-39-5	
1-Methylnaphthalene	**0.15**	ug/L	0.050	0.018	1	07/15/22 08:34	07/19/22 09:50	90-12-0	
2-Methylnaphthalene	**0.072**	ug/L	0.050	0.014	1	07/15/22 08:34	07/19/22 09:50	91-57-6	
Naphthalene	**0.078**	ug/L	0.050	0.020	1	07/15/22 08:34	07/19/22 09:50	91-20-3	
Phenanthrene	**0.83**	ug/L	0.050	0.026	1	07/15/22 08:34	07/19/22 09:50	85-01-8	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-13 **Lab ID: 40248098013** Collected: 07/12/22 07:20 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Pyrene	**0.36**	ug/L	0.050	0.023	1	07/15/22 08:34	07/19/22 09:50	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	71	%	44-120		1	07/15/22 08:34	07/19/22 09:50	321-60-8	
Terphenyl-d14 (S)	77	%	49-120		1	07/15/22 08:34	07/19/22 09:50	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		07/19/22 17:12	71-43-2	
Bromobenzene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 17:12	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/19/22 17:12	74-97-5	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		07/19/22 17:12	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		07/19/22 17:12	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		07/19/22 17:12	74-83-9	
n-Butylbenzene	**<0.86**	ug/L	1.0	0.86	1		07/19/22 17:12	104-51-8	
sec-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/19/22 17:12	135-98-8	
tert-Butylbenzene	**<0.59**	ug/L	1.0	0.59	1		07/19/22 17:12	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		07/19/22 17:12	56-23-5	
Chlorobenzene	**5.4**	ug/L	1.0	0.86	1		07/19/22 17:12	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		07/19/22 17:12	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		07/19/22 17:12	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		07/19/22 17:12	74-87-3	
2-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/19/22 17:12	95-49-8	
4-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/19/22 17:12	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		07/19/22 17:12	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		07/19/22 17:12	124-48-1	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		07/19/22 17:12	106-93-4	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		07/19/22 17:12	74-95-3	
1,2-Dichlorobenzene	**0.38J**	ug/L	1.0	0.33	1		07/19/22 17:12	95-50-1	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 17:12	541-73-1	
1,4-Dichlorobenzene	**1.9**	ug/L	1.0	0.89	1		07/19/22 17:12	106-46-7	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		07/19/22 17:12	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 17:12	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		07/19/22 17:12	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		07/19/22 17:12	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		07/19/22 17:12	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		07/19/22 17:12	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		07/19/22 17:12	78-87-5	
1,3-Dichloropropane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 17:12	142-28-9	
2,2-Dichloropropane	**<4.2**	ug/L	5.0	4.2	1		07/19/22 17:12	594-20-7	
1,1-Dichloropropene	**<0.41**	ug/L	1.0	0.41	1		07/19/22 17:12	563-58-6	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 17:12	10061-01-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		07/19/22 17:12	10061-02-6	
Diisopropyl ether	**<1.1**	ug/L	5.0	1.1	1		07/19/22 17:12	108-20-3	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		07/19/22 17:12	100-41-4	
Hexachloro-1,3-butadiene	**<2.7**	ug/L	5.0	2.7	1		07/19/22 17:12	87-68-3	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-13 **Lab ID: 40248098013** Collected: 07/12/22 07:20 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.0**	ug/L	5.0	1.0	1		07/19/22 17:12	98-82-8	
p-Isopropyltoluene	**3.2J**	ug/L	5.0	1.0	1		07/19/22 17:12	99-87-6	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		07/19/22 17:12	75-09-2	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		07/19/22 17:12	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		07/19/22 17:12	91-20-3	
n-Propylbenzene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 17:12	103-65-1	
Styrene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 17:12	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	1.0	0.36	1		07/19/22 17:12	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		07/19/22 17:12	79-34-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		07/19/22 17:12	127-18-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		07/19/22 17:12	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	5.0	1.0	1		07/19/22 17:12	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		07/19/22 17:12	120-82-1	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 17:12	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		07/19/22 17:12	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		07/19/22 17:12	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		07/19/22 17:12	75-69-4	
1,2,3-Trichloropropane	**<0.56**	ug/L	5.0	0.56	1		07/19/22 17:12	96-18-4	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		07/19/22 17:12	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 17:12	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/19/22 17:12	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		07/19/22 17:12	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		07/19/22 17:12	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 17:12	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		07/19/22 17:12	460-00-4	
1,2-Dichlorobenzene-d4 (S)	109	%	70-130		1		07/19/22 17:12	2199-69-1	
Toluene-d8 (S)	94	%	70-130		1		07/19/22 17:12	2037-26-5	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-14 **Lab ID: 40248098014** Collected: 07/12/22 12:10 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 12:24	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 12:24	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 12:24	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 12:24	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 12:24	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 12:24	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 12:24	11096-82-5	
PCB, Total	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 12:24	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	17-141		1	07/21/22 08:22	07/22/22 12:24	877-09-8	
Decachlorobiphenyl (S)	50	%	10-113		1	07/21/22 08:22	07/22/22 12:24	2051-24-3	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis								
Arsenic, Dissolved	**5.4**	ug/L	0.58	0.17	1	07/18/22 15:40	07/19/22 19:46	7440-38-2	
Barium, Dissolved	**152**	ug/L	0.31	0.093	1	07/18/22 15:40	07/19/22 19:46	7440-39-3	
Cadmium, Dissolved	**<0.022**	ug/L	0.073	0.022	1	07/18/22 15:40	07/19/22 19:46	7440-43-9	
Chromium, Dissolved	**1.1**	ug/L	0.34	0.10	1	07/18/22 15:40	07/19/22 19:46	7440-47-3	
Lead, Dissolved	**<0.14**	ug/L	0.47	0.14	1	07/18/22 15:40	07/19/22 19:46	7439-92-1	
Selenium, Dissolved	**0.46J**	ug/L	1.1	0.33	1	07/18/22 15:40	07/19/22 19:46	7782-49-2	
Silver, Dissolved	**<0.029**	ug/L	0.097	0.029	1	07/18/22 15:40	07/19/22 19:46	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury, Dissolved	**<0.066**	ug/L	0.20	0.066	1	07/21/22 10:50	07/22/22 07:27	7439-97-6	
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**0.18**	ug/L	0.049	0.014	1	07/19/22 08:44	07/19/22 16:49	83-32-9	
Acenaphthylene	**<0.012**	ug/L	0.049	0.012	1	07/19/22 08:44	07/19/22 16:49	208-96-8	
Anthracene	**<0.018**	ug/L	0.049	0.018	1	07/19/22 08:44	07/19/22 16:49	120-12-7	
Benzo(a)anthracene	**<0.013**	ug/L	0.049	0.013	1	07/19/22 08:44	07/19/22 16:49	56-55-3	
Benzo(a)pyrene	**<0.012**	ug/L	0.049	0.012	1	07/19/22 08:44	07/19/22 16:49	50-32-8	
Benzo(b)fluoranthene	**<0.0089**	ug/L	0.049	0.0089	1	07/19/22 08:44	07/19/22 16:49	205-99-2	
Benzo(g,h,i)perylene	**<0.023**	ug/L	0.049	0.023	1	07/19/22 08:44	07/19/22 16:49	191-24-2	
Benzo(k)fluoranthene	**<0.022**	ug/L	0.049	0.022	1	07/19/22 08:44	07/19/22 16:49	207-08-9	
Chrysene	**<0.012**	ug/L	0.049	0.012	1	07/19/22 08:44	07/19/22 16:49	218-01-9	
Dibenz(a,h)anthracene	**<0.017**	ug/L	0.049	0.017	1	07/19/22 08:44	07/19/22 16:49	53-70-3	
Fluoranthene	**<0.026**	ug/L	0.049	0.026	1	07/19/22 08:44	07/19/22 16:49	206-44-0	
Fluorene	**<0.023**	ug/L	0.049	0.023	1	07/19/22 08:44	07/19/22 16:49	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.015**	ug/L	0.049	0.015	1	07/19/22 08:44	07/19/22 16:49	193-39-5	
1-Methylnaphthalene	**0.68**	ug/L	0.049	0.017	1	07/19/22 08:44	07/19/22 16:49	90-12-0	
2-Methylnaphthalene	**0.015J**	ug/L	0.049	0.013	1	07/19/22 08:44	07/19/22 16:49	91-57-6	
Naphthalene	**0.11**	ug/L	0.049	0.019	1	07/19/22 08:44	07/19/22 16:49	91-20-3	
Phenanthrene	**<0.025**	ug/L	0.049	0.025	1	07/19/22 08:44	07/19/22 16:49	85-01-8	

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-14 **Lab ID: 40248098014** Collected: 07/12/22 12:10 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Pyrene	**<0.022**	ug/L	0.049	0.022	1	07/19/22 08:44	07/19/22 16:49	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	75	%	44-120		1	07/19/22 08:44	07/19/22 16:49	321-60-8	
Terphenyl-d14 (S)	84	%	49-120		1	07/19/22 08:44	07/19/22 16:49	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		07/19/22 17:33	71-43-2	
Bromobenzene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 17:33	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/19/22 17:33	74-97-5	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		07/19/22 17:33	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		07/19/22 17:33	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		07/19/22 17:33	74-83-9	
n-Butylbenzene	**<0.86**	ug/L	1.0	0.86	1		07/19/22 17:33	104-51-8	
sec-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/19/22 17:33	135-98-8	
tert-Butylbenzene	**<0.59**	ug/L	1.0	0.59	1		07/19/22 17:33	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		07/19/22 17:33	56-23-5	
Chlorobenzene	**3.2**	ug/L	1.0	0.86	1		07/19/22 17:33	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		07/19/22 17:33	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		07/19/22 17:33	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		07/19/22 17:33	74-87-3	
2-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/19/22 17:33	95-49-8	
4-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/19/22 17:33	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		07/19/22 17:33	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		07/19/22 17:33	124-48-1	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		07/19/22 17:33	106-93-4	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		07/19/22 17:33	74-95-3	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		07/19/22 17:33	95-50-1	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 17:33	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		07/19/22 17:33	106-46-7	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		07/19/22 17:33	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 17:33	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		07/19/22 17:33	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		07/19/22 17:33	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		07/19/22 17:33	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		07/19/22 17:33	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		07/19/22 17:33	78-87-5	
1,3-Dichloropropane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 17:33	142-28-9	
2,2-Dichloropropane	**<4.2**	ug/L	5.0	4.2	1		07/19/22 17:33	594-20-7	
1,1-Dichloropropene	**<0.41**	ug/L	1.0	0.41	1		07/19/22 17:33	563-58-6	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 17:33	10061-01-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		07/19/22 17:33	10061-02-6	
Diisopropyl ether	**<1.1**	ug/L	5.0	1.1	1		07/19/22 17:33	108-20-3	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		07/19/22 17:33	100-41-4	
Hexachloro-1,3-butadiene	**<2.7**	ug/L	5.0	2.7	1		07/19/22 17:33	87-68-3	

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-14 **Lab ID: 40248098014** Collected: 07/12/22 12:10 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.0**	ug/L	5.0	1.0	1		07/19/22 17:33	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	5.0	1.0	1		07/19/22 17:33	99-87-6	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		07/19/22 17:33	75-09-2	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		07/19/22 17:33	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		07/19/22 17:33	91-20-3	
n-Propylbenzene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 17:33	103-65-1	
Styrene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 17:33	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	1.0	0.36	1		07/19/22 17:33	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		07/19/22 17:33	79-34-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		07/19/22 17:33	127-18-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		07/19/22 17:33	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	5.0	1.0	1		07/19/22 17:33	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		07/19/22 17:33	120-82-1	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 17:33	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		07/19/22 17:33	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		07/19/22 17:33	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		07/19/22 17:33	75-69-4	
1,2,3-Trichloropropane	**<0.56**	ug/L	5.0	0.56	1		07/19/22 17:33	96-18-4	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		07/19/22 17:33	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 17:33	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/19/22 17:33	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		07/19/22 17:33	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		07/19/22 17:33	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 17:33	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		07/19/22 17:33	460-00-4	
1,2-Dichlorobenzene-d4 (S)	115	%	70-130		1		07/19/22 17:33	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		07/19/22 17:33	2037-26-5	

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(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-15 **Lab ID: 40248098015** Collected: 07/13/22 09:25 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 12:45	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 12:45	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 12:45	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 12:45	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 12:45	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 12:45	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 12:45	11096-82-5	
PCB, Total	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 12:45	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	17-141		1	07/21/22 08:22	07/22/22 12:45	877-09-8	
Decachlorobiphenyl (S)	50	%	10-113		1	07/21/22 08:22	07/22/22 12:45	2051-24-3	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis								
Arsenic, Dissolved	**8.6**	ug/L	0.58	0.17	1	07/18/22 15:40	07/19/22 17:41	7440-38-2	
Barium, Dissolved	**270**	ug/L	0.62	0.19	2	07/18/22 15:40	07/19/22 20:10	7440-39-3	
Cadmium, Dissolved	**0.033J**	ug/L	0.073	0.022	1	07/18/22 15:40	07/19/22 17:41	7440-43-9	
Chromium, Dissolved	**1.5**	ug/L	0.34	0.10	1	07/18/22 15:40	07/19/22 17:41	7440-47-3	
Lead, Dissolved	**<0.14**	ug/L	0.47	0.14	1	07/18/22 15:40	07/19/22 17:41	7439-92-1	
Selenium, Dissolved	**0.53J**	ug/L	1.1	0.33	1	07/18/22 15:40	07/19/22 17:41	7782-49-2	
Silver, Dissolved	**<0.029**	ug/L	0.097	0.029	1	07/18/22 15:40	07/19/22 17:41	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury, Dissolved	**<0.066**	ug/L	0.20	0.066	1	07/21/22 10:50	07/22/22 07:30	7439-97-6	
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**5.5**	ug/L	0.096	0.027	2	07/19/22 08:44	07/19/22 17:09	83-32-9	
Acenaphthylene	**0.049J**	ug/L	0.096	0.024	2	07/19/22 08:44	07/19/22 17:09	208-96-8	
Anthracene	**0.36**	ug/L	0.096	0.036	2	07/19/22 08:44	07/19/22 17:09	120-12-7	
Benzo(a)anthracene	**0.031J**	ug/L	0.096	0.026	2	07/19/22 08:44	07/19/22 17:09	56-55-3	
Benzo(a)pyrene	**<0.024**	ug/L	0.096	0.024	2	07/19/22 08:44	07/19/22 17:09	50-32-8	
Benzo(b)fluoranthene	**<0.018**	ug/L	0.096	0.018	2	07/19/22 08:44	07/19/22 17:09	205-99-2	
Benzo(g,h,i)perylene	**<0.045**	ug/L	0.096	0.045	2	07/19/22 08:44	07/19/22 17:09	191-24-2	
Benzo(k)fluoranthene	**<0.043**	ug/L	0.096	0.043	2	07/19/22 08:44	07/19/22 17:09	207-08-9	
Chrysene	**<0.024**	ug/L	0.096	0.024	2	07/19/22 08:44	07/19/22 17:09	218-01-9	
Dibenz(a,h)anthracene	**<0.034**	ug/L	0.096	0.034	2	07/19/22 08:44	07/19/22 17:09	53-70-3	
Fluoranthene	**0.39**	ug/L	0.096	0.050	2	07/19/22 08:44	07/19/22 17:09	206-44-0	
Fluorene	**1.1**	ug/L	0.096	0.045	2	07/19/22 08:44	07/19/22 17:09	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.030**	ug/L	0.096	0.030	2	07/19/22 08:44	07/19/22 17:09	193-39-5	
1-Methylnaphthalene	**5.8**	ug/L	0.096	0.035	2	07/19/22 08:44	07/19/22 17:09	90-12-0	
2-Methylnaphthalene	**4.8**	ug/L	0.096	0.027	2	07/19/22 08:44	07/19/22 17:09	91-57-6	
Naphthalene	**9.8**	ug/L	0.096	0.038	2	07/19/22 08:44	07/19/22 17:09	91-20-3	
Phenanthrene	**2.1**	ug/L	0.096	0.049	2	07/19/22 08:44	07/19/22 17:09	85-01-8	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-15 **Lab ID: 40248098015** Collected: 07/13/22 09:25 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Pyrene	**0.39**	ug/L	0.096	0.044	2	07/19/22 08:44	07/19/22 17:09	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	71	%	44-120		2	07/19/22 08:44	07/19/22 17:09	321-60-8	
Terphenyl-d14 (S)	76	%	49-120		2	07/19/22 08:44	07/19/22 17:09	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**2.3**	ug/L	1.0	0.30	1		07/19/22 17:54	71-43-2	
Bromobenzene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 17:54	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/19/22 17:54	74-97-5	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		07/19/22 17:54	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		07/19/22 17:54	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		07/19/22 17:54	74-83-9	
n-Butylbenzene	**<0.86**	ug/L	1.0	0.86	1		07/19/22 17:54	104-51-8	
sec-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/19/22 17:54	135-98-8	
tert-Butylbenzene	**<0.59**	ug/L	1.0	0.59	1		07/19/22 17:54	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		07/19/22 17:54	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		07/19/22 17:54	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		07/19/22 17:54	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		07/19/22 17:54	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		07/19/22 17:54	74-87-3	
2-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/19/22 17:54	95-49-8	
4-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/19/22 17:54	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		07/19/22 17:54	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		07/19/22 17:54	124-48-1	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		07/19/22 17:54	106-93-4	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		07/19/22 17:54	74-95-3	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		07/19/22 17:54	95-50-1	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 17:54	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		07/19/22 17:54	106-46-7	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		07/19/22 17:54	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 17:54	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		07/19/22 17:54	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		07/19/22 17:54	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		07/19/22 17:54	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		07/19/22 17:54	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		07/19/22 17:54	78-87-5	
1,3-Dichloropropane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 17:54	142-28-9	
2,2-Dichloropropane	**<4.2**	ug/L	5.0	4.2	1		07/19/22 17:54	594-20-7	
1,1-Dichloropropene	**<0.41**	ug/L	1.0	0.41	1		07/19/22 17:54	563-58-6	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 17:54	10061-01-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		07/19/22 17:54	10061-02-6	
Diisopropyl ether	**<1.1**	ug/L	5.0	1.1	1		07/19/22 17:54	108-20-3	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		07/19/22 17:54	100-41-4	
Hexachloro-1,3-butadiene	**<2.7**	ug/L	5.0	2.7	1		07/19/22 17:54	87-68-3	

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-15 **Lab ID: 40248098015** Collected: 07/13/22 09:25 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.0**	ug/L	5.0	1.0	1		07/19/22 17:54	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	5.0	1.0	1		07/19/22 17:54	99-87-6	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		07/19/22 17:54	75-09-2	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		07/19/22 17:54	1634-04-4	
Naphthalene	**19.9**	ug/L	5.0	1.1	1		07/19/22 17:54	91-20-3	
n-Propylbenzene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 17:54	103-65-1	
Styrene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 17:54	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	1.0	0.36	1		07/19/22 17:54	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		07/19/22 17:54	79-34-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		07/19/22 17:54	127-18-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		07/19/22 17:54	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	5.0	1.0	1		07/19/22 17:54	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		07/19/22 17:54	120-82-1	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 17:54	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		07/19/22 17:54	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		07/19/22 17:54	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		07/19/22 17:54	75-69-4	
1,2,3-Trichloropropane	**<0.56**	ug/L	5.0	0.56	1		07/19/22 17:54	96-18-4	
1,2,4-Trimethylbenzene	**3.4**	ug/L	1.0	0.45	1		07/19/22 17:54	95-63-6	
1,3,5-Trimethylbenzene	**0.85J**	ug/L	1.0	0.36	1		07/19/22 17:54	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/19/22 17:54	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		07/19/22 17:54	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		07/19/22 17:54	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 17:54	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		07/19/22 17:54	460-00-4	
1,2-Dichlorobenzene-d4 (S)	110	%	70-130		1		07/19/22 17:54	2199-69-1	
Toluene-d8 (S)	96	%	70-130		1		07/19/22 17:54	2037-26-5	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-16 **Lab ID: 40248098016** Collected: 07/13/22 10:55 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<0.11**	ug/L	0.48	0.11	1	07/21/22 08:22	07/22/22 13:06	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.11**	ug/L	0.48	0.11	1	07/21/22 08:22	07/22/22 13:06	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.11**	ug/L	0.48	0.11	1	07/21/22 08:22	07/22/22 13:06	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.11**	ug/L	0.48	0.11	1	07/21/22 08:22	07/22/22 13:06	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.11**	ug/L	0.48	0.11	1	07/21/22 08:22	07/22/22 13:06	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.11**	ug/L	0.48	0.11	1	07/21/22 08:22	07/22/22 13:06	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.11**	ug/L	0.48	0.11	1	07/21/22 08:22	07/22/22 13:06	11096-82-5	
PCB, Total	**<0.11**	ug/L	0.48	0.11	1	07/21/22 08:22	07/22/22 13:06	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	17-141		1	07/21/22 08:22	07/22/22 13:06	877-09-8	
Decachlorobiphenyl (S)	46	%	10-113		1	07/21/22 08:22	07/22/22 13:06	2051-24-3	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis								
Arsenic, Dissolved	**126**	ug/L	0.58	0.17	1	07/18/22 15:40	07/19/22 19:50	7440-38-2	
Barium, Dissolved	**582**	ug/L	1.5	0.46	5	07/18/22 15:40	07/19/22 21:31	7440-39-3	
Cadmium, Dissolved	**0.022J**	ug/L	0.073	0.022	1	07/18/22 15:40	07/19/22 19:50	7440-43-9	
Chromium, Dissolved	**0.60**	ug/L	0.34	0.10	1	07/18/22 15:40	07/19/22 19:50	7440-47-3	
Lead, Dissolved	**<0.14**	ug/L	0.47	0.14	1	07/18/22 15:40	07/19/22 19:50	7439-92-1	
Selenium, Dissolved	**0.54J**	ug/L	1.1	0.33	1	07/18/22 15:40	07/19/22 19:50	7782-49-2	
Silver, Dissolved	**<0.029**	ug/L	0.097	0.029	1	07/18/22 15:40	07/19/22 19:50	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury, Dissolved	**<0.066**	ug/L	0.20	0.066	1	07/21/22 10:50	07/22/22 07:32	7439-97-6	
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**1.2**	ug/L	0.049	0.014	1	07/19/22 08:44	07/19/22 17:29	83-32-9	
Acenaphthylene	**0.060**	ug/L	0.049	0.012	1	07/19/22 08:44	07/19/22 17:29	208-96-8	
Anthracene	**0.17**	ug/L	0.049	0.018	1	07/19/22 08:44	07/19/22 17:29	120-12-7	
Benzo(a)anthracene	**0.039J**	ug/L	0.049	0.013	1	07/19/22 08:44	07/19/22 17:29	56-55-3	
Benzo(a)pyrene	**0.032J**	ug/L	0.049	0.013	1	07/19/22 08:44	07/19/22 17:29	50-32-8	
Benzo(b)fluoranthene	**0.034J**	ug/L	0.049	0.0090	1	07/19/22 08:44	07/19/22 17:29	205-99-2	
Benzo(g,h,i)perylene	**0.024J**	ug/L	0.049	0.023	1	07/19/22 08:44	07/19/22 17:29	191-24-2	
Benzo(k)fluoranthene	**<0.022**	ug/L	0.049	0.022	1	07/19/22 08:44	07/19/22 17:29	207-08-9	
Chrysene	**0.041J**	ug/L	0.049	0.012	1	07/19/22 08:44	07/19/22 17:29	218-01-9	
Dibenz(a,h)anthracene	**<0.018**	ug/L	0.049	0.018	1	07/19/22 08:44	07/19/22 17:29	53-70-3	
Fluoranthene	**0.27**	ug/L	0.049	0.026	1	07/19/22 08:44	07/19/22 17:29	206-44-0	
Fluorene	**0.47**	ug/L	0.049	0.023	1	07/19/22 08:44	07/19/22 17:29	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.019J**	ug/L	0.049	0.015	1	07/19/22 08:44	07/19/22 17:29	193-39-5	
1-Methylnaphthalene	**0.74**	ug/L	0.049	0.018	1	07/19/22 08:44	07/19/22 17:29	90-12-0	
2-Methylnaphthalene	**0.38**	ug/L	0.049	0.014	1	07/19/22 08:44	07/19/22 17:29	91-57-6	
Naphthalene	**0.41**	ug/L	0.049	0.020	1	07/19/22 08:44	07/19/22 17:29	91-20-3	
Phenanthrene	**1.3**	ug/L	0.049	0.025	1	07/19/22 08:44	07/19/22 17:29	85-01-8	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-16 **Lab ID: 40248098016** Collected: 07/13/22 10:55 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Pyrene	**0.21**	ug/L	0.049	0.022	1	07/19/22 08:44	07/19/22 17:29	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	73	%	44-120		1	07/19/22 08:44	07/19/22 17:29	321-60-8	
Terphenyl-d14 (S)	81	%	49-120		1	07/19/22 08:44	07/19/22 17:29	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		07/19/22 18:15	71-43-2	
Bromobenzene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 18:15	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/19/22 18:15	74-97-5	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		07/19/22 18:15	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		07/19/22 18:15	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		07/19/22 18:15	74-83-9	
n-Butylbenzene	**<0.86**	ug/L	1.0	0.86	1		07/19/22 18:15	104-51-8	
sec-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/19/22 18:15	135-98-8	
tert-Butylbenzene	**<0.59**	ug/L	1.0	0.59	1		07/19/22 18:15	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		07/19/22 18:15	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		07/19/22 18:15	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		07/19/22 18:15	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		07/19/22 18:15	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		07/19/22 18:15	74-87-3	
2-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/19/22 18:15	95-49-8	
4-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/19/22 18:15	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		07/19/22 18:15	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		07/19/22 18:15	124-48-1	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		07/19/22 18:15	106-93-4	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		07/19/22 18:15	74-95-3	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		07/19/22 18:15	95-50-1	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 18:15	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		07/19/22 18:15	106-46-7	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		07/19/22 18:15	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 18:15	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		07/19/22 18:15	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		07/19/22 18:15	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		07/19/22 18:15	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		07/19/22 18:15	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		07/19/22 18:15	78-87-5	
1,3-Dichloropropane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 18:15	142-28-9	
2,2-Dichloropropane	**<4.2**	ug/L	5.0	4.2	1		07/19/22 18:15	594-20-7	
1,1-Dichloropropene	**<0.41**	ug/L	1.0	0.41	1		07/19/22 18:15	563-58-6	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 18:15	10061-01-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		07/19/22 18:15	10061-02-6	
Diisopropyl ether	**<1.1**	ug/L	5.0	1.1	1		07/19/22 18:15	108-20-3	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		07/19/22 18:15	100-41-4	
Hexachloro-1,3-butadiene	**<2.7**	ug/L	5.0	2.7	1		07/19/22 18:15	87-68-3	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-16 **Lab ID: 40248098016** Collected: 07/13/22 10:55 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.0**	ug/L	5.0	1.0	1		07/19/22 18:15	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	5.0	1.0	1		07/19/22 18:15	99-87-6	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		07/19/22 18:15	75-09-2	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		07/19/22 18:15	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		07/19/22 18:15	91-20-3	
n-Propylbenzene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 18:15	103-65-1	
Styrene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 18:15	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	1.0	0.36	1		07/19/22 18:15	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		07/19/22 18:15	79-34-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		07/19/22 18:15	127-18-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		07/19/22 18:15	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	5.0	1.0	1		07/19/22 18:15	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		07/19/22 18:15	120-82-1	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 18:15	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		07/19/22 18:15	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		07/19/22 18:15	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		07/19/22 18:15	75-69-4	
1,2,3-Trichloropropane	**<0.56**	ug/L	5.0	0.56	1		07/19/22 18:15	96-18-4	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		07/19/22 18:15	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 18:15	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/19/22 18:15	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		07/19/22 18:15	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		07/19/22 18:15	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 18:15	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		07/19/22 18:15	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		07/19/22 18:15	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		07/19/22 18:15	2037-26-5	

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-12 DUP **Lab ID: 40248098017** Collected: 07/13/22 12:25 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
PCB-1016 (Aroclor 1016)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 13:26	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 13:26	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 13:26	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 13:26	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 13:26	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 13:26	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 13:26	11096-82-5	
PCB, Total	**<0.11**	ug/L	0.47	0.11	1	07/21/22 08:22	07/22/22 13:26	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	17-141		1	07/21/22 08:22	07/22/22 13:26	877-09-8	
Decachlorobiphenyl (S)	53	%	10-113		1	07/21/22 08:22	07/22/22 13:26	2051-24-3	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis								
Arsenic, Dissolved	**1.9**	ug/L	0.58	0.17	1	07/18/22 15:40	07/19/22 19:55	7440-38-2	
Barium, Dissolved	**58.4**	ug/L	0.31	0.093	1	07/18/22 15:40	07/19/22 19:55	7440-39-3	
Cadmium, Dissolved	**<0.022**	ug/L	0.073	0.022	1	07/18/22 15:40	07/19/22 19:55	7440-43-9	
Chromium, Dissolved	**1.2**	ug/L	0.34	0.10	1	07/18/22 15:40	07/19/22 19:55	7440-47-3	
Lead, Dissolved	**<0.14**	ug/L	0.47	0.14	1	07/18/22 15:40	07/19/22 19:55	7439-92-1	
Selenium, Dissolved	**<0.33**	ug/L	1.1	0.33	1	07/18/22 15:40	07/19/22 19:55	7782-49-2	
Silver, Dissolved	**<0.029**	ug/L	0.097	0.029	1	07/18/22 15:40	07/19/22 19:55	7440-22-4	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury, Dissolved	**<0.066**	ug/L	0.20	0.066	1	07/21/22 10:50	07/22/22 07:39	7439-97-6	
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**6.0**	ug/L	0.048	0.013	1	07/19/22 08:44	07/19/22 17:50	83-32-9	
Acenaphthylene	**0.028J**	ug/L	0.048	0.012	1	07/19/22 08:44	07/19/22 17:50	208-96-8	
Anthracene	**0.24**	ug/L	0.048	0.018	1	07/19/22 08:44	07/19/22 17:50	120-12-7	
Benzo(a)anthracene	**0.029J**	ug/L	0.048	0.013	1	07/19/22 08:44	07/19/22 17:50	56-55-3	
Benzo(a)pyrene	**<0.012**	ug/L	0.048	0.012	1	07/19/22 08:44	07/19/22 17:50	50-32-8	
Benzo(b)fluoranthene	**0.016J**	ug/L	0.048	0.0087	1	07/19/22 08:44	07/19/22 17:50	205-99-2	
Benzo(g,h,i)perylene	**<0.022**	ug/L	0.048	0.022	1	07/19/22 08:44	07/19/22 17:50	191-24-2	
Benzo(k)fluoranthene	**<0.021**	ug/L	0.048	0.021	1	07/19/22 08:44	07/19/22 17:50	207-08-9	
Chrysene	**0.024J**	ug/L	0.048	0.012	1	07/19/22 08:44	07/19/22 17:50	218-01-9	
Dibenz(a,h)anthracene	**<0.017**	ug/L	0.048	0.017	1	07/19/22 08:44	07/19/22 17:50	53-70-3	
Fluoranthene	**0.29**	ug/L	0.048	0.025	1	07/19/22 08:44	07/19/22 17:50	206-44-0	
Fluorene	**1.1**	ug/L	0.048	0.022	1	07/19/22 08:44	07/19/22 17:50	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.015**	ug/L	0.048	0.015	1	07/19/22 08:44	07/19/22 17:50	193-39-5	
1-Methylnaphthalene	**2.7**	ug/L	0.048	0.017	1	07/19/22 08:44	07/19/22 17:50	90-12-0	
2-Methylnaphthalene	**0.71**	ug/L	0.048	0.013	1	07/19/22 08:44	07/19/22 17:50	91-57-6	
Naphthalene	**0.085**	ug/L	0.048	0.019	1	07/19/22 08:44	07/19/22 17:50	91-20-3	
Phenanthrene	**1.5**	ug/L	0.048	0.024	1	07/19/22 08:44	07/19/22 17:50	85-01-8	

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(920)469-2436

ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-12 DUP **Lab ID: 40248098017** Collected: 07/13/22 12:25 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Pyrene	**0.24**	ug/L	0.048	0.022	1	07/19/22 08:44	07/19/22 17:50	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	78	%	44-120		1	07/19/22 08:44	07/19/22 17:50	321-60-8	
Terphenyl-d14 (S)	82	%	49-120		1	07/19/22 08:44	07/19/22 17:50	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		07/19/22 18:35	71-43-2	
Bromobenzene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 18:35	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/19/22 18:35	74-97-5	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		07/19/22 18:35	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		07/19/22 18:35	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		07/19/22 18:35	74-83-9	
n-Butylbenzene	**<0.86**	ug/L	1.0	0.86	1		07/19/22 18:35	104-51-8	
sec-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/19/22 18:35	135-98-8	
tert-Butylbenzene	**<0.59**	ug/L	1.0	0.59	1		07/19/22 18:35	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		07/19/22 18:35	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		07/19/22 18:35	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		07/19/22 18:35	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		07/19/22 18:35	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		07/19/22 18:35	74-87-3	
2-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/19/22 18:35	95-49-8	
4-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/19/22 18:35	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		07/19/22 18:35	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		07/19/22 18:35	124-48-1	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		07/19/22 18:35	106-93-4	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		07/19/22 18:35	74-95-3	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		07/19/22 18:35	95-50-1	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 18:35	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		07/19/22 18:35	106-46-7	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		07/19/22 18:35	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 18:35	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		07/19/22 18:35	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		07/19/22 18:35	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		07/19/22 18:35	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		07/19/22 18:35	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		07/19/22 18:35	78-87-5	
1,3-Dichloropropane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 18:35	142-28-9	
2,2-Dichloropropane	**<4.2**	ug/L	5.0	4.2	1		07/19/22 18:35	594-20-7	
1,1-Dichloropropene	**<0.41**	ug/L	1.0	0.41	1		07/19/22 18:35	563-58-6	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 18:35	10061-01-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		07/19/22 18:35	10061-02-6	
Diisopropyl ether	**<1.1**	ug/L	5.0	1.1	1		07/19/22 18:35	108-20-3	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		07/19/22 18:35	100-41-4	
Hexachloro-1,3-butadiene	**<2.7**	ug/L	5.0	2.7	1		07/19/22 18:35	87-68-3	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: MW-12 DUP **Lab ID: 40248098017** Collected: 07/13/22 12:25 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.0**	ug/L	5.0	1.0	1		07/19/22 18:35	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	5.0	1.0	1		07/19/22 18:35	99-87-6	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		07/19/22 18:35	75-09-2	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		07/19/22 18:35	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		07/19/22 18:35	91-20-3	
n-Propylbenzene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 18:35	103-65-1	
Styrene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 18:35	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	1.0	0.36	1		07/19/22 18:35	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		07/19/22 18:35	79-34-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		07/19/22 18:35	127-18-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		07/19/22 18:35	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	5.0	1.0	1		07/19/22 18:35	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		07/19/22 18:35	120-82-1	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 18:35	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		07/19/22 18:35	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		07/19/22 18:35	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		07/19/22 18:35	75-69-4	
1,2,3-Trichloropropane	**<0.56**	ug/L	5.0	0.56	1		07/19/22 18:35	96-18-4	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		07/19/22 18:35	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 18:35	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/19/22 18:35	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		07/19/22 18:35	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		07/19/22 18:35	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 18:35	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		07/19/22 18:35	460-00-4	
1,2-Dichlorobenzene-d4 (S)	115	%	70-130		1		07/19/22 18:35	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		07/19/22 18:35	2037-26-5	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: TRIP BLANK **Lab ID: 40248098018** Collected: 07/12/22 06:30 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		07/19/22 12:01	71-43-2	
Bromobenzene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 12:01	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/19/22 12:01	74-97-5	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		07/19/22 12:01	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		07/19/22 12:01	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		07/19/22 12:01	74-83-9	
n-Butylbenzene	**<0.86**	ug/L	1.0	0.86	1		07/19/22 12:01	104-51-8	
sec-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/19/22 12:01	135-98-8	
tert-Butylbenzene	**<0.59**	ug/L	1.0	0.59	1		07/19/22 12:01	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		07/19/22 12:01	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		07/19/22 12:01	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		07/19/22 12:01	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		07/19/22 12:01	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		07/19/22 12:01	74-87-3	
2-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/19/22 12:01	95-49-8	
4-Chlorotoluene	**<0.89**	ug/L	5.0	0.89	1		07/19/22 12:01	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		07/19/22 12:01	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		07/19/22 12:01	124-48-1	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		07/19/22 12:01	106-93-4	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		07/19/22 12:01	74-95-3	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		07/19/22 12:01	95-50-1	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 12:01	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		07/19/22 12:01	106-46-7	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		07/19/22 12:01	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 12:01	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		07/19/22 12:01	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		07/19/22 12:01	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		07/19/22 12:01	156-59-2	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		07/19/22 12:01	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		07/19/22 12:01	78-87-5	
1,3-Dichloropropane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 12:01	142-28-9	
2,2-Dichloropropane	**<4.2**	ug/L	5.0	4.2	1		07/19/22 12:01	594-20-7	
1,1-Dichloropropene	**<0.41**	ug/L	1.0	0.41	1		07/19/22 12:01	563-58-6	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 12:01	10061-01-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		07/19/22 12:01	10061-02-6	
Diisopropyl ether	**<1.1**	ug/L	5.0	1.1	1		07/19/22 12:01	108-20-3	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		07/19/22 12:01	100-41-4	
Hexachloro-1,3-butadiene	**<2.7**	ug/L	5.0	2.7	1		07/19/22 12:01	87-68-3	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	5.0	1.0	1		07/19/22 12:01	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	5.0	1.0	1		07/19/22 12:01	99-87-6	
Methylene Chloride	**<0.32**	ug/L	5.0	0.32	1		07/19/22 12:01	75-09-2	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		07/19/22 12:01	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		07/19/22 12:01	91-20-3	
n-Propylbenzene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 12:01	103-65-1	
Styrene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 12:01	100-42-5	

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ANALYTICAL RESULTS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Sample: TRIP BLANK **Lab ID: 40248098018** Collected: 07/12/22 06:30 Received: 07/14/22 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.36**	ug/L	1.0	0.36	1		07/19/22 12:01	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		07/19/22 12:01	79-34-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		07/19/22 12:01	127-18-4	
Toluene	**<0.29**	ug/L	1.0	0.29	1		07/19/22 12:01	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	5.0	1.0	1		07/19/22 12:01	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		07/19/22 12:01	120-82-1	
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		07/19/22 12:01	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		07/19/22 12:01	79-00-5	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		07/19/22 12:01	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		07/19/22 12:01	75-69-4	
1,2,3-Trichloropropane	**<0.56**	ug/L	5.0	0.56	1		07/19/22 12:01	96-18-4	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		07/19/22 12:01	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		07/19/22 12:01	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/19/22 12:01	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		07/19/22 12:01	1330-20-7	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		07/19/22 12:01	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		07/19/22 12:01	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		07/19/22 12:01	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		07/19/22 12:01	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		07/19/22 12:01	2037-26-5	

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QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40248098

QC Batch: 421388
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40248098001, 40248098002, 40248098003, 40248098004, 40248098005, 40248098006, 40248098007, 40248098008, 40248098009, 40248098010, 40248098011, 40248098012, 40248098013, 40248098014, 40248098015, 40248098016, 40248098017

METHOD BLANK: 2427302
Matrix: Water
Associated Lab Samples: 40248098001, 40248098002, 40248098003, 40248098004, 40248098005, 40248098006, 40248098007, 40248098008, 40248098009, 40248098010, 40248098011, 40248098012, 40248098013, 40248098014, 40248098015, 40248098016, 40248098017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.066	0.20	07/22/22 06:44	

LABORATORY CONTROL SAMPLE: 2427303

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.9	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2427304 2427305

Parameter	Units	40248098001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	<0.066	5	5	4.7	4.8	95	95	85-115	1	20	

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QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40248098

QC Batch: 686447
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET Dissolved
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 40248098001, 40248098002, 40248098003, 40248098004, 40248098005, 40248098006, 40248098007, 40248098008, 40248098009, 40248098010, 40248098011, 40248098012, 40248098013, 40248098014, 40248098015, 40248098016, 40248098017

METHOD BLANK: 3158386 Matrix: Water
Associated Lab Samples: 40248098001, 40248098002, 40248098003, 40248098004, 40248098005, 40248098006, 40248098007, 40248098008, 40248098009, 40248098010, 40248098011, 40248098012, 40248098013, 40248098014, 40248098015, 40248098016, 40248098017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.17	0.58	07/19/22 17:31	
Barium, Dissolved	ug/L	<0.093	0.31	07/19/22 17:31	
Cadmium, Dissolved	ug/L	<0.022	0.073	07/19/22 17:31	
Chromium, Dissolved	ug/L	<0.10	0.34	07/19/22 17:31	
Lead, Dissolved	ug/L	<0.14	0.47	07/19/22 17:31	
Selenium, Dissolved	ug/L	<0.33	1.1	07/19/22 17:31	
Silver, Dissolved	ug/L	<0.029	0.097	07/19/22 17:31	

LABORATORY CONTROL SAMPLE: 3158387

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	40	39.6	99	80-120	
Barium, Dissolved	ug/L	40	39.5	99	80-120	
Cadmium, Dissolved	ug/L	40	39.7	99	80-120	
Chromium, Dissolved	ug/L	40	40.5	101	80-120	
Lead, Dissolved	ug/L	40	40.8	102	80-120	
Selenium, Dissolved	ug/L	40	40.3	101	80-120	
Silver, Dissolved	ug/L	40	41.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3158388 3158389

Parameter	Units	40248098015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	8.6	40	40	47.5	48.1	97	99	75-125	1	20	
Barium, Dissolved	ug/L	270	40	40	309	325	96	138	75-125	5	20	P6
Cadmium, Dissolved	ug/L	0.033J	40	40	37.7	38.5	94	96	75-125	2	20	
Chromium, Dissolved	ug/L	1.5	40	40	39.7	40.1	95	97	75-125	1	20	
Lead, Dissolved	ug/L	<0.14	40	40	40.5	41.6	101	104	75-125	3	20	
Selenium, Dissolved	ug/L	0.53J	40	40	38.7	39.8	95	98	75-125	3	20	
Silver, Dissolved	ug/L	<0.029	40	40	38.5	39.5	96	99	75-125	3	20	

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QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40248098

QC Batch: 420872
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40248098001, 40248098002, 40248098003, 40248098004, 40248098005

METHOD BLANK: 2424053 Matrix: Water
Associated Lab Samples: 40248098001, 40248098002, 40248098003, 40248098004, 40248098005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	07/15/22 08:18	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	07/15/22 08:18	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	07/15/22 08:18	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	07/15/22 08:18	
1,1-Dichloroethane	ug/L	<0.30	1.0	07/15/22 08:18	
1,1-Dichloroethene	ug/L	<0.58	1.0	07/15/22 08:18	
1,1-Dichloropropene	ug/L	<0.41	1.0	07/15/22 08:18	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	07/15/22 08:18	
1,2,3-Trichloropropane	ug/L	<0.56	5.0	07/15/22 08:18	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	07/15/22 08:18	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	07/15/22 08:18	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	07/15/22 08:18	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	07/15/22 08:18	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	07/15/22 08:18	
1,2-Dichloroethane	ug/L	<0.29	1.0	07/15/22 08:18	
1,2-Dichloropropane	ug/L	<0.45	1.0	07/15/22 08:18	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	07/15/22 08:18	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	07/15/22 08:18	
1,3-Dichloropropane	ug/L	<0.30	1.0	07/15/22 08:18	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	07/15/22 08:18	
2,2-Dichloropropane	ug/L	<4.2	5.0	07/15/22 08:18	
2-Chlorotoluene	ug/L	<0.89	5.0	07/15/22 08:18	
4-Chlorotoluene	ug/L	<0.89	5.0	07/15/22 08:18	
Benzene	ug/L	<0.30	1.0	07/15/22 08:18	
Bromobenzene	ug/L	<0.36	1.0	07/15/22 08:18	
Bromochloromethane	ug/L	<0.36	5.0	07/15/22 08:18	
Bromodichloromethane	ug/L	<0.42	1.0	07/15/22 08:18	
Bromoform	ug/L	<3.8	5.0	07/15/22 08:18	
Bromomethane	ug/L	<1.2	5.0	07/15/22 08:18	
Carbon tetrachloride	ug/L	<0.37	1.0	07/15/22 08:18	
Chlorobenzene	ug/L	<0.86	1.0	07/15/22 08:18	
Chloroethane	ug/L	<1.4	5.0	07/15/22 08:18	
Chloroform	ug/L	<1.2	5.0	07/15/22 08:18	
Chloromethane	ug/L	<1.6	5.0	07/15/22 08:18	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	07/15/22 08:18	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	07/15/22 08:18	
Dibromochloromethane	ug/L	<2.6	5.0	07/15/22 08:18	
Dibromomethane	ug/L	<0.99	5.0	07/15/22 08:18	
Dichlorodifluoromethane	ug/L	<0.46	5.0	07/15/22 08:18	
Diisopropyl ether	ug/L	<1.1	5.0	07/15/22 08:18	

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QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40248098

METHOD BLANK: 2424053 Matrix: Water
Associated Lab Samples: 40248098001, 40248098002, 40248098003, 40248098004, 40248098005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.33	1.0	07/15/22 08:18	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	07/15/22 08:18	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	07/15/22 08:18	
m&p-Xylene	ug/L	<0.70	2.0	07/15/22 08:18	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	07/15/22 08:18	
Methylene Chloride	ug/L	<0.32	5.0	07/15/22 08:18	
n-Butylbenzene	ug/L	<0.86	1.0	07/15/22 08:18	
n-Propylbenzene	ug/L	<0.35	1.0	07/15/22 08:18	
Naphthalene	ug/L	<1.1	5.0	07/15/22 08:18	
o-Xylene	ug/L	<0.35	1.0	07/15/22 08:18	
p-Isopropyltoluene	ug/L	<1.0	5.0	07/15/22 08:18	
sec-Butylbenzene	ug/L	<0.42	1.0	07/15/22 08:18	
Styrene	ug/L	<0.36	1.0	07/15/22 08:18	
tert-Butylbenzene	ug/L	<0.59	1.0	07/15/22 08:18	
Tetrachloroethene	ug/L	<0.41	1.0	07/15/22 08:18	
Toluene	ug/L	<0.29	1.0	07/15/22 08:18	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	07/15/22 08:18	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	07/15/22 08:18	
Trichloroethene	ug/L	<0.32	1.0	07/15/22 08:18	
Trichlorofluoromethane	ug/L	<0.42	1.0	07/15/22 08:18	
Vinyl chloride	ug/L	<0.17	1.0	07/15/22 08:18	
Xylene (Total)	ug/L	<1.0	3.0	07/15/22 08:18	
1,2-Dichlorobenzene-d4 (S)	%	107	70-130	07/15/22 08:18	
4-Bromofluorobenzene (S)	%	103	70-130	07/15/22 08:18	
Toluene-d8 (S)	%	97	70-130	07/15/22 08:18	

LABORATORY CONTROL SAMPLE: 2424054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.6	109	70-134	
1,1,2,2-Tetrachloroethane	ug/L	50	51.3	103	69-130	
1,1,2-Trichloroethane	ug/L	50	52.6	105	70-130	
1,1-Dichloroethane	ug/L	50	53.1	106	70-130	
1,1-Dichloroethene	ug/L	50	48.6	97	74-131	
1,2,4-Trichlorobenzene	ug/L	50	48.1	96	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	49.0	98	64-137	
1,2-Dibromoethane (EDB)	ug/L	50	49.2	98	70-130	
1,2-Dichlorobenzene	ug/L	50	51.1	102	70-130	
1,2-Dichloroethane	ug/L	50	50.4	101	70-137	
1,2-Dichloropropane	ug/L	50	54.5	109	80-121	
1,3-Dichlorobenzene	ug/L	50	50.1	100	70-130	
1,4-Dichlorobenzene	ug/L	50	48.4	97	70-130	
Benzene	ug/L	50	54.7	109	70-130	
Bromodichloromethane	ug/L	50	50.8	102	70-130	

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QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40248098

LABORATORY CONTROL SAMPLE: 2424054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	50	51.4	103	70-130	
Bromomethane	ug/L	50	46.9	94	21-147	
Carbon tetrachloride	ug/L	50	56.8	114	80-146	
Chlorobenzene	ug/L	50	52.7	105	70-130	
Chloroethane	ug/L	50	48.7	97	52-165	
Chloroform	ug/L	50	52.7	105	80-123	
Chloromethane	ug/L	50	47.7	95	51-122	
cis-1,2-Dichloroethene	ug/L	50	48.1	96	70-130	
cis-1,3-Dichloropropene	ug/L	50	51.2	102	70-130	
Dibromochloromethane	ug/L	50	50.5	101	70-130	
Dichlorodifluoromethane	ug/L	50	49.5	99	25-121	
Ethylbenzene	ug/L	50	55.7	111	80-120	
Isopropylbenzene (Cumene)	ug/L	50	56.8	114	70-130	
m&p-Xylene	ug/L	100	109	109	70-130	
Methyl-tert-butyl ether	ug/L	50	49.0	98	70-130	
Methylene Chloride	ug/L	50	41.3	83	70-130	
o-Xylene	ug/L	50	54.4	109	70-130	
Styrene	ug/L	50	53.3	107	70-130	
Tetrachloroethene	ug/L	50	52.8	106	70-130	
Toluene	ug/L	50	52.0	104	80-120	
trans-1,2-Dichloroethene	ug/L	50	51.2	102	70-130	
trans-1,3-Dichloropropene	ug/L	50	43.0	86	70-130	
Trichloroethene	ug/L	50	54.4	109	70-130	
Trichlorofluoromethane	ug/L	50	46.2	92	65-160	
Vinyl chloride	ug/L	50	47.1	94	63-134	
Xylene (Total)	ug/L	150	163	109	70-130	
1,2-Dichlorobenzene-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2425273 2425274

Parameter	Units	40248079002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.30	50	50	54.1	53.5	108	107	70-134	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	52.8	54.4	106	109	61-135	3	20	
1,1,2-Trichloroethane	ug/L	<0.34	50	50	51.0	51.3	102	103	70-130	1	20	
1,1-Dichloroethane	ug/L	<0.30	50	50	50.4	51.6	101	103	70-130	2	20	
1,1-Dichloroethene	ug/L	<0.58	50	50	48.1	48.9	96	98	71-130	2	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	51.4	50.7	103	101	68-131	1	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	51.6	56.5	103	113	51-141	9	20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	49.3	51.5	99	103	70-130	4	20	
1,2-Dichlorobenzene	ug/L	<0.33	50	50	52.3	51.1	105	102	70-130	2	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	48.2	48.7	96	97	70-137	1	20	

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REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40248098

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2425273 2425274

Parameter	Units	40248079002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloropropane	ug/L	<0.45	50	50	51.9	53.1	104	106	80-121	2	20	
1,3-Dichlorobenzene	ug/L	<0.35	50	50	52.3	52.6	105	105	70-130	1	20	
1,4-Dichlorobenzene	ug/L	<0.89	50	50	50.3	49.8	101	100	70-130	1	20	
Benzene	ug/L	0.43J	50	50	54.6	55.0	108	109	70-130	1	20	
Bromodichloromethane	ug/L	<0.42	50	50	48.5	49.5	97	99	70-130	2	20	
Bromoform	ug/L	<3.8	50	50	52.0	51.5	104	103	70-133	1	20	
Bromomethane	ug/L	<1.2	50	50	51.1	51.0	102	102	21-149	0	22	
Carbon tetrachloride	ug/L	<0.37	50	50	57.0	56.4	114	113	80-146	1	20	
Chlorobenzene	ug/L	<0.86	50	50	52.1	52.0	104	104	70-130	0	20	
Chloroethane	ug/L	<1.4	50	50	49.9	49.9	100	100	52-165	0	20	
Chloroform	ug/L	<1.2	50	50	50.4	50.5	101	101	80-123	0	20	
Chloromethane	ug/L	<1.6	50	50	48.4	50.1	97	100	42-125	4	20	
cis-1,2-Dichloroethene	ug/L	1.9	50	50	49.0	49.3	94	95	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	49.6	49.7	99	99	70-130	0	20	
Dibromochloromethane	ug/L	<2.6	50	50	49.6	49.8	99	100	70-130	0	20	
Dichlorodifluoromethane	ug/L	<0.46	50	50	50.8	50.9	102	102	25-121	0	20	
Ethylbenzene	ug/L	<0.33	50	50	56.2	56.4	112	113	80-121	0	20	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	57.7	57.8	115	116	70-130	0	20	
m&p-Xylene	ug/L	<0.70	100	100	110	110	110	110	70-130	0	20	
Methyl-tert-butyl ether	ug/L	<1.1	50	50	46.4	47.4	93	95	70-130	2	20	
Methylene Chloride	ug/L	<0.32	50	50	42.1	41.8	84	84	70-130	1	20	
o-Xylene	ug/L	<0.35	50	50	53.8	54.5	108	109	70-130	1	20	
Styrene	ug/L	<0.36	50	50	55.1	54.1	110	108	70-132	2	20	
Tetrachloroethene	ug/L	66.3	50	50	123	120	114	108	70-130	2	20	
Toluene	ug/L	<0.29	50	50	51.7	52.5	103	105	80-120	1	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	50.4	51.6	101	103	70-130	2	20	
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	41.2	41.9	82	84	70-130	2	20	
Trichloroethene	ug/L	2.2	50	50	56.2	57.2	108	110	70-130	2	20	
Trichlorofluoromethane	ug/L	<0.42	50	50	45.4	46.3	91	93	65-160	2	20	
Vinyl chloride	ug/L	<0.17	50	50	47.3	48.4	95	97	60-137	2	20	
Xylene (Total)	ug/L	<1.0	150	150	164	165	109	110	70-130	1	20	
1,2-Dichlorobenzene-d4 (S)	%						101	98	70-130			
4-Bromofluorobenzene (S)	%						104	105	70-130			
Toluene-d8 (S)	%						100	99	70-130			

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(920)469-2436

QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40248098

QC Batch: 420891
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40248098006, 40248098007, 40248098008, 40248098009, 40248098010, 40248098011, 40248098012, 40248098013, 40248098014, 40248098015, 40248098016, 40248098017, 40248098018

METHOD BLANK: 2424222
Matrix: Water
Associated Lab Samples: 40248098006, 40248098007, 40248098008, 40248098009, 40248098010, 40248098011, 40248098012, 40248098013, 40248098014, 40248098015, 40248098016, 40248098017, 40248098018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	07/19/22 09:15	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	07/19/22 09:15	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	07/19/22 09:15	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	07/19/22 09:15	
1,1-Dichloroethane	ug/L	<0.30	1.0	07/19/22 09:15	
1,1-Dichloroethene	ug/L	<0.58	1.0	07/19/22 09:15	
1,1-Dichloropropene	ug/L	<0.41	1.0	07/19/22 09:15	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	07/19/22 09:15	
1,2,3-Trichloropropane	ug/L	<0.56	5.0	07/19/22 09:15	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	07/19/22 09:15	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	07/19/22 09:15	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	07/19/22 09:15	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	07/19/22 09:15	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	07/19/22 09:15	
1,2-Dichloroethane	ug/L	<0.29	1.0	07/19/22 09:15	
1,2-Dichloropropane	ug/L	<0.45	1.0	07/19/22 09:15	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	07/19/22 09:15	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	07/19/22 09:15	
1,3-Dichloropropane	ug/L	<0.30	1.0	07/19/22 09:15	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	07/19/22 09:15	
2,2-Dichloropropane	ug/L	<4.2	5.0	07/19/22 09:15	
2-Chlorotoluene	ug/L	<0.89	5.0	07/19/22 09:15	
4-Chlorotoluene	ug/L	<0.89	5.0	07/19/22 09:15	
Benzene	ug/L	<0.30	1.0	07/19/22 09:15	
Bromobenzene	ug/L	<0.36	1.0	07/19/22 09:15	
Bromochloromethane	ug/L	<0.36	5.0	07/19/22 09:15	
Bromodichloromethane	ug/L	<0.42	1.0	07/19/22 09:15	
Bromoform	ug/L	<3.8	5.0	07/19/22 09:15	
Bromomethane	ug/L	<1.2	5.0	07/19/22 09:15	
Carbon tetrachloride	ug/L	<0.37	1.0	07/19/22 09:15	
Chlorobenzene	ug/L	<0.86	1.0	07/19/22 09:15	
Chloroethane	ug/L	<1.4	5.0	07/19/22 09:15	
Chloroform	ug/L	<1.2	5.0	07/19/22 09:15	
Chloromethane	ug/L	<1.6	5.0	07/19/22 09:15	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	07/19/22 09:15	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	07/19/22 09:15	
Dibromochloromethane	ug/L	<2.6	5.0	07/19/22 09:15	
Dibromomethane	ug/L	<0.99	5.0	07/19/22 09:15	
Dichlorodifluoromethane	ug/L	<0.46	5.0	07/19/22 09:15	

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QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40248098

METHOD BLANK: 2424222 Matrix: Water

Associated Lab Samples: 40248098006, 40248098007, 40248098008, 40248098009, 40248098010, 40248098011, 40248098012, 40248098013, 40248098014, 40248098015, 40248098016, 40248098017, 40248098018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	<1.1	5.0	07/19/22 09:15	
Ethylbenzene	ug/L	<0.33	1.0	07/19/22 09:15	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	07/19/22 09:15	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	07/19/22 09:15	
m&p-Xylene	ug/L	<0.70	2.0	07/19/22 09:15	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	07/19/22 09:15	
Methylene Chloride	ug/L	<0.32	5.0	07/19/22 09:15	
n-Butylbenzene	ug/L	<0.86	1.0	07/19/22 09:15	
n-Propylbenzene	ug/L	<0.35	1.0	07/19/22 09:15	
Naphthalene	ug/L	<1.1	5.0	07/19/22 09:15	
o-Xylene	ug/L	<0.35	1.0	07/19/22 09:15	
p-Isopropyltoluene	ug/L	<1.0	5.0	07/19/22 09:15	
sec-Butylbenzene	ug/L	<0.42	1.0	07/19/22 09:15	
Styrene	ug/L	<0.36	1.0	07/19/22 09:15	
tert-Butylbenzene	ug/L	<0.59	1.0	07/19/22 09:15	
Tetrachloroethene	ug/L	<0.41	1.0	07/19/22 09:15	
Toluene	ug/L	<0.29	1.0	07/19/22 09:15	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	07/19/22 09:15	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	07/19/22 09:15	
Trichloroethene	ug/L	<0.32	1.0	07/19/22 09:15	
Trichlorofluoromethane	ug/L	<0.42	1.0	07/19/22 09:15	
Vinyl chloride	ug/L	<0.17	1.0	07/19/22 09:15	
Xylene (Total)	ug/L	<1.0	3.0	07/19/22 09:15	
1,2-Dichlorobenzene-d4 (S)	%	105	70-130	07/19/22 09:15	
4-Bromofluorobenzene (S)	%	103	70-130	07/19/22 09:15	
Toluene-d8 (S)	%	99	70-130	07/19/22 09:15	

LABORATORY CONTROL SAMPLE: 2424223

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.1	104	70-134	
1,1,2,2-Tetrachloroethane	ug/L	50	54.8	110	69-130	
1,1,2-Trichloroethane	ug/L	50	53.1	106	70-130	
1,1-Dichloroethane	ug/L	50	50.9	102	70-130	
1,1-Dichloroethene	ug/L	50	47.4	95	74-131	
1,2,4-Trichlorobenzene	ug/L	50	50.1	100	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	49.7	99	64-137	
1,2-Dibromoethane (EDB)	ug/L	50	52.4	105	70-130	
1,2-Dichlorobenzene	ug/L	50	53.1	106	70-130	
1,2-Dichloroethane	ug/L	50	49.3	99	70-137	
1,2-Dichloropropane	ug/L	50	52.0	104	80-121	
1,3-Dichlorobenzene	ug/L	50	52.3	105	70-130	
1,4-Dichlorobenzene	ug/L	50	48.7	97	70-130	

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QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40248098

LABORATORY CONTROL SAMPLE: 2424223

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	54.4	109	70-130	
Bromodichloromethane	ug/L	50	51.5	103	70-130	
Bromoform	ug/L	50	53.7	107	70-130	
Bromomethane	ug/L	50	43.5	87	21-147	
Carbon tetrachloride	ug/L	50	55.3	111	80-146	
Chlorobenzene	ug/L	50	52.3	105	70-130	
Chloroethane	ug/L	50	44.3	89	52-165	
Chloroform	ug/L	50	50.5	101	80-123	
Chloromethane	ug/L	50	46.6	93	51-122	
cis-1,2-Dichloroethene	ug/L	50	47.4	95	70-130	
cis-1,3-Dichloropropene	ug/L	50	50.9	102	70-130	
Dibromochloromethane	ug/L	50	49.8	100	70-130	
Dichlorodifluoromethane	ug/L	50	41.1	82	25-121	
Ethylbenzene	ug/L	50	56.3	113	80-120	
Isopropylbenzene (Cumene)	ug/L	50	56.6	113	70-130	
m&p-Xylene	ug/L	100	108	108	70-130	
Methyl-tert-butyl ether	ug/L	50	49.3	99	70-130	
Methylene Chloride	ug/L	50	40.5	81	70-130	
o-Xylene	ug/L	50	53.4	107	70-130	
Styrene	ug/L	50	53.2	106	70-130	
Tetrachloroethene	ug/L	50	53.5	107	70-130	
Toluene	ug/L	50	52.7	105	80-120	
trans-1,2-Dichloroethene	ug/L	50	49.4	99	70-130	
trans-1,3-Dichloropropene	ug/L	50	45.6	91	70-130	
Trichloroethene	ug/L	50	52.9	106	70-130	
Trichlorofluoromethane	ug/L	50	44.7	89	65-160	
Vinyl chloride	ug/L	50	45.0	90	63-134	
Xylene (Total)	ug/L	150	162	108	70-130	
1,2-Dichlorobenzene-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2425896 2425897

Parameter	Units	40248078001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.30	50	50	51.5	52.8	103	106	70-134	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	56.0	55.0	112	110	61-135	2	20	
1,1,2-Trichloroethane	ug/L	<0.34	50	50	53.3	52.7	107	105	70-130	1	20	
1,1-Dichloroethane	ug/L	<0.30	50	50	49.8	51.1	100	102	70-130	3	20	
1,1-Dichloroethene	ug/L	<0.58	50	50	45.9	46.4	92	93	71-130	1	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	49.4	49.6	99	99	68-131	0	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	53.5	51.8	107	104	51-141	3	20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	53.7	53.0	107	106	70-130	1	20	

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QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40248098

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2425896 2425897

Parameter	Units	40248078001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichlorobenzene	ug/L	<0.33	50	50	51.0	53.2	102	106	70-130	4	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	49.6	49.0	99	98	70-137	1	20	
1,2-Dichloropropane	ug/L	<0.45	50	50	51.8	51.9	104	104	80-121	0	20	
1,3-Dichlorobenzene	ug/L	<0.35	50	50	50.7	52.3	101	105	70-130	3	20	
1,4-Dichlorobenzene	ug/L	<0.89	50	50	47.7	47.7	95	95	70-130	0	20	
Benzene	ug/L	<0.30	50	50	53.0	53.8	106	108	70-130	2	20	
Bromodichloromethane	ug/L	<0.42	50	50	51.1	50.7	102	101	70-130	1	20	
Bromoform	ug/L	<3.8	50	50	54.2	52.9	108	106	70-133	2	20	
Bromomethane	ug/L	<1.2	50	50	46.5	49.5	93	99	21-149	6	22	
Carbon tetrachloride	ug/L	<0.37	50	50	55.4	55.2	111	110	80-146	0	20	
Chlorobenzene	ug/L	<0.86	50	50	51.5	51.7	103	103	70-130	0	20	
Chloroethane	ug/L	<1.4	50	50	44.1	44.7	88	89	52-165	1	20	
Chloroform	ug/L	<1.2	50	50	50.4	50.7	101	101	80-123	1	20	
Chloromethane	ug/L	<1.6	50	50	46.0	47.0	92	94	42-125	2	20	
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	48.0	48.8	96	98	70-130	2	20	
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	51.0	51.2	102	102	70-130	0	20	
Dibromochloromethane	ug/L	<2.6	50	50	51.8	50.0	104	100	70-130	3	20	
Dichlorodifluoromethane	ug/L	<0.46	50	50	39.3	39.7	79	79	25-121	1	20	
Ethylbenzene	ug/L	<0.33	50	50	55.5	55.7	111	111	80-121	0	20	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	55.8	55.6	112	111	70-130	0	20	
m&p-Xylene	ug/L	<0.70	100	100	108	108	108	108	70-130	0	20	
Methyl-tert-butyl ether	ug/L	<1.1	50	50	52.2	49.9	104	100	70-130	5	20	
Methylene Chloride	ug/L	<0.32	50	50	39.2	40.5	78	81	70-130	3	20	
o-Xylene	ug/L	<0.35	50	50	51.4	51.9	103	104	70-130	1	20	
Styrene	ug/L	<0.36	50	50	53.2	52.2	106	104	70-132	2	20	
Tetrachloroethene	ug/L	<0.41	50	50	53.7	53.1	107	106	70-130	1	20	
Toluene	ug/L	<0.29	50	50	52.2	51.9	104	104	80-120	1	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	48.4	49.9	97	100	70-130	3	20	
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	46.5	45.8	93	92	70-130	2	20	
Trichloroethene	ug/L	<0.32	50	50	52.0	53.6	104	107	70-130	3	20	
Trichlorofluoromethane	ug/L	<0.42	50	50	44.2	45.3	88	91	65-160	2	20	
Vinyl chloride	ug/L	<0.17	50	50	45.0	45.2	90	90	60-137	1	20	
Xylene (Total)	ug/L	<1.0	150	150	159	159	106	106	70-130	0	20	
1,2-Dichlorobenzene-d4 (S)	%						100	101	70-130			
4-Bromofluorobenzene (S)	%						105	105	70-130			
Toluene-d8 (S)	%						101	98	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40248098

QC Batch: 421379
QC Batch Method: EPA 3510
Analysis Method: EPA 8082A
Analysis Description: 8082A GCS PCB
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40248098001, 40248098002, 40248098003, 40248098004, 40248098005, 40248098006, 40248098007, 40248098008, 40248098009, 40248098010, 40248098011, 40248098012, 40248098013, 40248098014, 40248098015, 40248098016, 40248098017

METHOD BLANK: 2427161 Matrix: Water
Associated Lab Samples: 40248098001, 40248098002, 40248098003, 40248098004, 40248098005, 40248098006, 40248098007, 40248098008, 40248098009, 40248098010, 40248098011, 40248098012, 40248098013, 40248098014, 40248098015, 40248098016, 40248098017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	<0.11	0.50	07/22/22 06:36	
PCB-1221 (Aroclor 1221)	ug/L	<0.11	0.50	07/22/22 06:36	
PCB-1232 (Aroclor 1232)	ug/L	<0.11	0.50	07/22/22 06:36	
PCB-1242 (Aroclor 1242)	ug/L	<0.11	0.50	07/22/22 06:36	
PCB-1248 (Aroclor 1248)	ug/L	<0.11	0.50	07/22/22 06:36	
PCB-1254 (Aroclor 1254)	ug/L	<0.11	0.50	07/22/22 06:36	
PCB-1260 (Aroclor 1260)	ug/L	<0.11	0.50	07/22/22 06:36	
Decachlorobiphenyl (S)	%	48	10-113	07/22/22 06:36	
Tetrachloro-m-xylene (S)	%	88	17-141	07/22/22 06:36	

LABORATORY CONTROL SAMPLE & LCSD: 2427162 2427163

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L		<0.11	<0.11					20	
PCB-1221 (Aroclor 1221)	ug/L		<0.11	<0.11					20	
PCB-1232 (Aroclor 1232)	ug/L		<0.11	<0.11					20	
PCB-1242 (Aroclor 1242)	ug/L		<0.11	<0.11					20	
PCB-1248 (Aroclor 1248)	ug/L		<0.11	<0.11					20	
PCB-1254 (Aroclor 1254)	ug/L		<0.11	<0.11					20	
PCB-1260 (Aroclor 1260)	ug/L	5	4.8	4.9	95	98	67-110	3	20	
Decachlorobiphenyl (S)	%				57	53	10-113			
Tetrachloro-m-xylene (S)	%				90	91	17-141			

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QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40248098

QC Batch: 420909
QC Batch Method: EPA 3510
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E Water PAH
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40248098001, 40248098002, 40248098003, 40248098004, 40248098005, 40248098006, 40248098007, 40248098008, 40248098009, 40248098010, 40248098011, 40248098012, 40248098013

METHOD BLANK: 2424361 Matrix: Water
Associated Lab Samples: 40248098001, 40248098002, 40248098003, 40248098004, 40248098005, 40248098006, 40248098007, 40248098008, 40248098009, 40248098010, 40248098011, 40248098012, 40248098013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.018	0.050	07/18/22 15:19	
2-Methylnaphthalene	ug/L	<0.014	0.050	07/18/22 15:19	
Acenaphthene	ug/L	<0.014	0.050	07/18/22 15:19	
Acenaphthylene	ug/L	<0.013	0.050	07/18/22 15:19	
Anthracene	ug/L	<0.018	0.050	07/18/22 15:19	
Benzo(a)anthracene	ug/L	0.017J	0.050	07/18/22 15:19	
Benzo(a)pyrene	ug/L	<0.013	0.050	07/18/22 15:19	
Benzo(b)fluoranthene	ug/L	<0.0091	0.050	07/18/22 15:19	
Benzo(g,h,i)perylene	ug/L	<0.023	0.050	07/18/22 15:19	
Benzo(k)fluoranthene	ug/L	<0.022	0.050	07/18/22 15:19	
Chrysene	ug/L	<0.013	0.050	07/18/22 15:19	
Dibenz(a,h)anthracene	ug/L	<0.018	0.050	07/18/22 15:19	
Fluoranthene	ug/L	<0.026	0.050	07/18/22 15:19	
Fluorene	ug/L	<0.024	0.050	07/18/22 15:19	
Indeno(1,2,3-cd)pyrene	ug/L	<0.016	0.050	07/18/22 15:19	
Naphthalene	ug/L	<0.020	0.050	07/18/22 15:19	
Phenanthrene	ug/L	<0.026	0.050	07/18/22 15:19	
Pyrene	ug/L	<0.023	0.050	07/18/22 15:19	
2-Fluorobiphenyl (S)	%	76	44-120	07/18/22 15:19	
Terphenyl-d14 (S)	%	87	49-120	07/18/22 15:19	

LABORATORY CONTROL SAMPLE: 2424362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.4	72	51-120	
2-Methylnaphthalene	ug/L	2	1.4	71	50-120	
Acenaphthene	ug/L	2	1.5	76	65-120	
Acenaphthylene	ug/L	2	1.5	77	61-120	
Anthracene	ug/L	2	1.5	76	61-104	
Benzo(a)anthracene	ug/L	2	1.5	75	51-96	
Benzo(a)pyrene	ug/L	2	1.5	73	68-120	
Benzo(b)fluoranthene	ug/L	2	1.5	77	55-97	
Benzo(g,h,i)perylene	ug/L	2	1.6	80	69-120	
Benzo(k)fluoranthene	ug/L	2	1.6	80	73-120	
Chrysene	ug/L	2	1.7	86	72-126	
Dibenz(a,h)anthracene	ug/L	2	1.0	52	57-115	L2
Fluoranthene	ug/L	2	1.6	79	58-111	

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QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40248098

LABORATORY CONTROL SAMPLE: 2424362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	ug/L	2	1.5	76	62-120	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.4	70	66-120	
Naphthalene	ug/L	2	1.4	72	53-120	
Phenanthrene	ug/L	2	1.6	78	59-120	
Pyrene	ug/L	2	1.7	84	59-120	
2-Fluorobiphenyl (S)	%			78	44-120	
Terphenyl-d14 (S)	%			86	49-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2424363 2424364

Parameter	Units	40248090001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	<0.018	2	2	1.6	1.5	79	73	22-120	7	20	
2-Methylnaphthalene	ug/L	<0.014	2	2	1.6	1.5	78	73	18-120	7	20	
Acenaphthene	ug/L	<0.000014 mg/L	2	2	1.6	1.5	82	77	26-120	7	20	
Acenaphthylene	ug/L	<0.000013 mg/L	2	2	1.6	1.5	81	76	28-120	7	20	
Anthracene	ug/L	<0.000018 mg/L	2	2	1.6	1.5	79	74	19-124	6	20	
Benzo(a)anthracene	ug/L	<0.000014 mg/L	2	2	1.5	1.5	76	73	10-125	4	20	
Benzo(a)pyrene	ug/L	<0.000013 mg/L	2	2	1.6	1.5	79	74	11-134	5	20	
Benzo(b)fluoranthene	ug/L	<0.0000091 mg/L	2	2	1.6	1.5	81	77	10-118	6	20	
Benzo(g,h,i)perylene	ug/L	<0.000023 mg/L	2	2	1.7	1.6	84	82	10-135	2	20	
Benzo(k)fluoranthene	ug/L	<0.000022 mg/L	2	2	1.7	1.6	84	82	17-136	2	20	
Chrysene	ug/L	<0.000013 mg/L	2	2	1.7	1.7	87	83	27-144	4	20	
Dibenz(a,h)anthracene	ug/L	<0.000018 mg/L	2	2	1.5	1.4	74	71	10-142	5	20	
Fluoranthene	ug/L	<0.000026 mg/L	2	2	1.6	1.5	81	76	26-129	6	20	
Fluorene	ug/L	<0.000024 mg/L	2	2	1.6	1.5	81	75	27-120	7	20	
Indeno(1,2,3-cd)pyrene	ug/L	<0.000016 mg/L	2	2	1.6	1.5	80	76	10-134	4	20	
Naphthalene	ug/L	<0.000020 mg/L	2	2	1.6	1.5	79	74	11-120	7	20	
Phenanthrene	ug/L	<0.000026 mg/L	2	2	1.6	1.5	81	77	23-120	5	20	
Pyrene	ug/L	<0.000023 mg/L	2	2	1.7	1.7	87	83	24-120	5	20	
2-Fluorobiphenyl (S)	%						85	77	44-120			
Terphenyl-d14 (S)	%						85	81	49-120			

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QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40248098

QC Batch: 421130
QC Batch Method: EPA 3510
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E Water PAH
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40248098014, 40248098015, 40248098016, 40248098017

METHOD BLANK: 2425643 Matrix: Water
Associated Lab Samples: 40248098014, 40248098015, 40248098016, 40248098017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.018	0.050	07/19/22 12:10	
2-Methylnaphthalene	ug/L	<0.014	0.050	07/19/22 12:10	
Acenaphthene	ug/L	<0.014	0.050	07/19/22 12:10	
Acenaphthylene	ug/L	<0.013	0.050	07/19/22 12:10	
Anthracene	ug/L	<0.018	0.050	07/19/22 12:10	
Benzo(a)anthracene	ug/L	<0.014	0.050	07/19/22 12:10	
Benzo(a)pyrene	ug/L	<0.013	0.050	07/19/22 12:10	
Benzo(b)fluoranthene	ug/L	<0.0091	0.050	07/19/22 12:10	
Benzo(g,h,i)perylene	ug/L	<0.023	0.050	07/19/22 12:10	
Benzo(k)fluoranthene	ug/L	<0.022	0.050	07/19/22 12:10	
Chrysene	ug/L	<0.013	0.050	07/19/22 12:10	
Dibenz(a,h)anthracene	ug/L	<0.018	0.050	07/19/22 12:10	
Fluoranthene	ug/L	<0.026	0.050	07/19/22 12:10	
Fluorene	ug/L	<0.024	0.050	07/19/22 12:10	
Indeno(1,2,3-cd)pyrene	ug/L	<0.016	0.050	07/19/22 12:10	
Naphthalene	ug/L	<0.020	0.050	07/19/22 12:10	
Phenanthrene	ug/L	<0.026	0.050	07/19/22 12:10	
Pyrene	ug/L	<0.023	0.050	07/19/22 12:10	
2-Fluorobiphenyl (S)	%	71	44-120	07/19/22 12:10	
Terphenyl-d14 (S)	%	74	49-120	07/19/22 12:10	

LABORATORY CONTROL SAMPLE: 2425644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.6	78	51-120	
2-Methylnaphthalene	ug/L	2	1.5	76	50-120	
Acenaphthene	ug/L	2	1.6	81	65-120	
Acenaphthylene	ug/L	2	1.7	83	61-120	
Anthracene	ug/L	2	1.7	83	61-104	
Benzo(a)anthracene	ug/L	2	1.7	83	51-96	
Benzo(a)pyrene	ug/L	2	1.7	83	68-120	
Benzo(b)fluoranthene	ug/L	2	1.6	82	55-97	
Benzo(g,h,i)perylene	ug/L	2	1.8	89	69-120	
Benzo(k)fluoranthene	ug/L	2	1.8	88	73-120	
Chrysene	ug/L	2	1.8	88	72-126	
Dibenz(a,h)anthracene	ug/L	2	1.7	85	57-115	
Fluoranthene	ug/L	2	1.7	84	58-111	
Fluorene	ug/L	2	1.6	82	62-120	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.8	89	66-120	

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QUALITY CONTROL DATA

Project: 60662292 PFAS SI
Pace Project No.: 40248098

LABORATORY CONTROL SAMPLE: 2425644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	2	1.5	77	53-120	
Phenanthrene	ug/L	2	1.7	84	59-120	
Pyrene	ug/L	2	1.7	83	59-120	
2-Fluorobiphenyl (S)	%			79	44-120	
Terphenyl-d14 (S)	%			83	49-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2425652 2425653

Parameter	Units	40248064001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	<0.016	1.8	1.8	1.3	1.3	73	73	22-120	1	20	
2-Methylnaphthalene	ug/L	<0.012	1.8	1.8	1.3	1.3	71	71	18-120	2	20	
Acenaphthene	ug/L	<0.012	1.8	1.8	1.3	1.3	75	75	26-120	0	20	
Acenaphthylene	ug/L	<0.011	1.8	1.8	1.4	1.4	77	76	28-120	1	20	
Anthracene	ug/L	<0.017	1.8	1.8	1.4	1.4	79	76	19-124	4	20	
Benzo(a)anthracene	ug/L	<0.012	1.8	1.8	1.5	1.4	81	75	10-125	7	20	
Benzo(a)pyrene	ug/L	<0.011	1.8	1.8	1.5	1.4	81	77	11-134	6	20	
Benzo(b)fluoranthene	ug/L	<0.0082	1.8	1.8	1.4	1.3	80	75	10-118	7	20	
Benzo(g,h,i)perylene	ug/L	<0.021	1.8	1.8	1.6	1.5	87	82	10-135	6	20	
Benzo(k)fluoranthene	ug/L	<0.020	1.8	1.8	1.5	1.4	84	80	17-136	5	20	
Chrysene	ug/L	<0.011	1.8	1.8	1.6	1.4	86	80	27-144	7	20	
Dibenz(a,h)anthracene	ug/L	<0.016	1.8	1.8	1.6	1.5	91	85	10-142	7	20	
Fluoranthene	ug/L	<0.023	1.8	1.8	1.5	1.4	82	78	26-129	6	20	
Fluorene	ug/L	<0.021	1.8	1.8	1.4	1.4	76	76	27-120	0	20	
Indeno(1,2,3-cd)pyrene	ug/L	<0.014	1.8	1.8	1.6	1.5	90	83	10-134	9	20	
Naphthalene	ug/L	<0.018	1.8	1.8	1.3	1.3	71	71	11-120	0	20	
Phenanthrene	ug/L	<0.023	1.8	1.8	1.4	1.4	79	76	23-120	4	20	
Pyrene	ug/L	<0.020	1.8	1.8	1.5	1.4	85	79	24-120	7	20	
2-Fluorobiphenyl (S)	%						79	74	44-120			
Terphenyl-d14 (S)	%						84	79	49-120			

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QUALIFIERS

Project: 60662292 PFAS SI
Pace Project No.: 40248098

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.

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TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 421454

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

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
BA	Analyte was detected in an associated blank at a concentration greater than the MDL.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40248098001	MW-1	EPA 3510	421379	EPA 8082A	421454
40248098002	MW-2	EPA 3510	421379	EPA 8082A	421454
40248098003	MW-3	EPA 3510	421379	EPA 8082A	421454
40248098004	MW-4	EPA 3510	421379	EPA 8082A	421454
40248098005	MW-5	EPA 3510	421379	EPA 8082A	421454
40248098006	MW-6	EPA 3510	421379	EPA 8082A	421454
40248098007	MW-7	EPA 3510	421379	EPA 8082A	421454
40248098008	MW-8	EPA 3510	421379	EPA 8082A	421454
40248098009	MW-9	EPA 3510	421379	EPA 8082A	421454
40248098010	MW-10	EPA 3510	421379	EPA 8082A	421454
40248098011	MW-11	EPA 3510	421379	EPA 8082A	421454
40248098012	MW-12	EPA 3510	421379	EPA 8082A	421454
40248098013	MW-13	EPA 3510	421379	EPA 8082A	421454
40248098014	MW-14	EPA 3510	421379	EPA 8082A	421454
40248098015	MW-15	EPA 3510	421379	EPA 8082A	421454
40248098016	MW-16	EPA 3510	421379	EPA 8082A	421454
40248098017	MW-12 DUP	EPA 3510	421379	EPA 8082A	421454
40248098001	MW-1	EPA 200.2	686447	EPA 6020	686638
40248098002	MW-2	EPA 200.2	686447	EPA 6020	686638
40248098003	MW-3	EPA 200.2	686447	EPA 6020	686638
40248098004	MW-4	EPA 200.2	686447	EPA 6020	686638
40248098005	MW-5	EPA 200.2	686447	EPA 6020	686638
40248098006	MW-6	EPA 200.2	686447	EPA 6020	686638
40248098007	MW-7	EPA 200.2	686447	EPA 6020	686638
40248098008	MW-8	EPA 200.2	686447	EPA 6020	686638
40248098009	MW-9	EPA 200.2	686447	EPA 6020	686638
40248098010	MW-10	EPA 200.2	686447	EPA 6020	686638
40248098011	MW-11	EPA 200.2	686447	EPA 6020	686638
40248098012	MW-12	EPA 200.2	686447	EPA 6020	686638
40248098013	MW-13	EPA 200.2	686447	EPA 6020	686638
40248098014	MW-14	EPA 200.2	686447	EPA 6020	686638
40248098015	MW-15	EPA 200.2	686447	EPA 6020	686638
40248098016	MW-16	EPA 200.2	686447	EPA 6020	686638
40248098017	MW-12 DUP	EPA 200.2	686447	EPA 6020	686638
40248098001	MW-1	EPA 7470	421388	EPA 7470	421434
40248098002	MW-2	EPA 7470	421388	EPA 7470	421434
40248098003	MW-3	EPA 7470	421388	EPA 7470	421434
40248098004	MW-4	EPA 7470	421388	EPA 7470	421434
40248098005	MW-5	EPA 7470	421388	EPA 7470	421434
40248098006	MW-6	EPA 7470	421388	EPA 7470	421434
40248098007	MW-7	EPA 7470	421388	EPA 7470	421434
40248098008	MW-8	EPA 7470	421388	EPA 7470	421434
40248098009	MW-9	EPA 7470	421388	EPA 7470	421434
40248098010	MW-10	EPA 7470	421388	EPA 7470	421434
40248098011	MW-11	EPA 7470	421388	EPA 7470	421434
40248098012	MW-12	EPA 7470	421388	EPA 7470	421434
40248098013	MW-13	EPA 7470	421388	EPA 7470	421434
40248098014	MW-14	EPA 7470	421388	EPA 7470	421434

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60662292 PFAS SI
Pace Project No.: 40248098

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40248098015	**MW-15**	EPA 7470	421388	EPA 7470	421434
40248098016	**MW-16**	EPA 7470	421388	EPA 7470	421434
40248098017	**MW-12 DUP**	EPA 7470	421388	EPA 7470	421434
40248098001	**MW-1**	EPA 3510	420909	EPA 8270E by SIM	420936
40248098002	**MW-2**	EPA 3510	420909	EPA 8270E by SIM	420936
40248098003	**MW-3**	EPA 3510	420909	EPA 8270E by SIM	420936
40248098004	**MW-4**	EPA 3510	420909	EPA 8270E by SIM	420936
40248098005	**MW-5**	EPA 3510	420909	EPA 8270E by SIM	420936
40248098006	**MW-6**	EPA 3510	420909	EPA 8270E by SIM	420936
40248098007	**MW-7**	EPA 3510	420909	EPA 8270E by SIM	420936
40248098008	**MW-8**	EPA 3510	420909	EPA 8270E by SIM	420936
40248098009	**MW-9**	EPA 3510	420909	EPA 8270E by SIM	420936
40248098010	**MW-10**	EPA 3510	420909	EPA 8270E by SIM	420936
40248098011	**MW-11**	EPA 3510	420909	EPA 8270E by SIM	420936
40248098012	**MW-12**	EPA 3510	420909	EPA 8270E by SIM	420936
40248098013	**MW-13**	EPA 3510	420909	EPA 8270E by SIM	420936
40248098014	**MW-14**	EPA 3510	421130	EPA 8270E by SIM	421169
40248098015	**MW-15**	EPA 3510	421130	EPA 8270E by SIM	421169
40248098016	**MW-16**	EPA 3510	421130	EPA 8270E by SIM	421169
40248098017	**MW-12 DUP**	EPA 3510	421130	EPA 8270E by SIM	421169
40248098001	**MW-1**	EPA 8260	420872		
40248098002	**MW-2**	EPA 8260	420872		
40248098003	**MW-3**	EPA 8260	420872		
40248098004	**MW-4**	EPA 8260	420872		
40248098005	**MW-5**	EPA 8260	420872		
40248098006	**MW-6**	EPA 8260	420891		
40248098007	**MW-7**	EPA 8260	420891		
40248098008	**MW-8**	EPA 8260	420891		
40248098009	**MW-9**	EPA 8260	420891		
40248098010	**MW-10**	EPA 8260	420891		
40248098011	**MW-11**	EPA 8260	420891		
40248098012	**MW-12**	EPA 8260	420891		
40248098013	**MW-13**	EPA 8260	420891		
40248098014	**MW-14**	EPA 8260	420891		
40248098015	**MW-15**	EPA 8260	420891		
40248098016	**MW-16**	EPA 8260	420891		
40248098017	**MW-12 DUP**	EPA 8260	420891		
40248098018	**TRIP BLANK**	EPA 8260	420891		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : 1 Of 2

Section A	Section B	Section C	
Required Client Information:	Required Project Information:	Invoice Information:	
Company: AECOM	Report To: Andrew Mott	Attention:	
Address: 1555 N. River Center Drive, Suite 214	Copy To: Andrew.Mott@aecom.com	Company Name:	Regulatory Agency
Milwaukee, WI 53212	920-379-6024	Address:	
Email: Garret.Schacht@aecom.com	Purchase Order #:	Pace Quote:	
Phone: (920)471-6654 Fax:	Project Name: 00100498 - Aecom PN 60662292_091321	Pace Project Manager: christopher.hyska@pacelabs.com,	State / Location
Requested Due Date:	Project #: 60662292	Pace Profile #: 6933	WI

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N): Y/N	Analyses Test	VOC	PAH 8270/SIM	RCRA 8 Metals	Trip BLANK	PCB and PAHs	MeOH Blank	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																	N		N	N	Y		N			
1	MW-1	WT	G			7/12/22	1035		6	3		1	3							3	2	1		1			001
2	MW-2					7/12/22	1515																				002
3	MW-3					7/12/22	1615																				003
4	MW-4					7/13/22	1440																				004
5	MW-5					7/12/22	0935																				005
6	MW-6					7/12/22	1405																				006
7	MW-7					7/13/22	0720																				007
8	MW-8					7/13/22	1335																				008
9	MW-9					7/12/22	0830																				009
10	MW-10					7/12/22	1305																				010
11	MW-11					7/13/22	0515																				011
12	MW-12					7/13/22	1225																				012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Leslie Bychinski AECOM	7/14/22	0800	Susan K Wyler Pace	7/14/22	0800	①	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Leslie Bychinski

SIGNATURE of SAMPLER: Leslie Bychinski DATE Signed: 7/14/2022

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

① See Sour 7/14/22

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Section A	Section B	Section C	
Required Client Information:	Required Project Information:	Invoice Information:	
Company: AECOM	Report To: Andrew Mott	Attention:	
Address: 1555 N. River Center Drive, Suite 214	Copy To: Andrew.Mott@aecom.com	Company Name:	Regulatory Agency
Milwaukee, WI 53212	920-379-6024	Address:	
Email: Garret.Schacht@aecom.com	Purchase Order #:	Pace Quote:	
Phone: (920)471-6654 Fax:	Project Name: 00100498 - Aecom_PN 60662292_091321	Pace Project Manager: christopher.hyska@pacelabs.com,	State / Location
Requested Due Date:	Project #: 60662292	Pace Profile #: 6933	WI

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N): Y/N	Analyses Test: VOC	PAH 8270/SIM	RCRA 8 Metals	Trip BLANK	PCB ~~and PAHs~~	MeOH Blank	Residual Chlorine (Y/N)	
																		N	N	Y		N				
1	MW-13	WT	G			7/12/22	0720		7	3		1	3						3	2	1		1			013
2	MW-14					7/12/22	1210																			014
3	MW-15					7/13/22	0925																			015
4	MW-16					7/13/22	1055																			016
5	MW-12 DUP					7/13/22	1225																			017
6	Trip Blank					7/12/22	0630		2				2									2				018
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Leslie Bychinski AECOM	7/14/22	0800	[signature]	7/14/22	0800	①	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Leslie Bychinski

SIGNATURE of SAMPLER: [signature] DATE Signed: 7/14/2022

Sample Preservation Receipt Form

Client Name: AECOM Project # 402480918

All containers needing preservation have been checked and noted below: ☑Yes ☐No ☐N/A

Initial when completed: EW Date/ Time:

Lab Lot# of pH paper: 10123111 Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass: AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	Vials: VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001	1					2						1					3													X		2.5 / 5 / 10
002	1					2						1					3													X		2.5 / 5 / 10
003	1					2						1					3													X		2.5 / 5 / 10
004	1					2						1					3													X		2.5 / 5 / 10
005	1					2						1					3													X		2.5 / 5 / 10
006	1					2						1					3													X		2.5 / 5 / 10
007	1					2						1					3													X		2.5 / 5 / 10
008	1					2						1					3													X		2.5 / 5 / 10
009	1					2						1					3													X		2.5 / 5 / 10
010	1					2						1					3													X		2.5 / 5 / 10
011	1					2						1					3													X		2.5 / 5 / 10
012	1					2						1					3													X		2.5 / 5 / 10
013	1					2						1					3													X		2.5 / 5 / 10
014	1					2						1					3													X		2.5 / 5 / 10
015	1					2						1					3													X		2.5 / 5 / 10
016	1					2						1					3													X		2.5 / 5 / 10
017	1					2						1					3													X		2.5 / 5 / 10
018																	2																2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check (VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm): ☐Yes ☑No ☐N/A *If yes look in headspace column

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40248098

40248098

Client Name: AECOM

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

Tracking #: _____

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 - **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2.5,2.5,2.3 /Corr: 3.3,2.5,3.5

Biological Tissue is Frozen: ☐ yes ☐ no

Person examining contents: Date: 7/14/22 /Initials: SKW

Temp Blank Present: ☐ yes ☒ no

Labeled By Initials: MP, AW

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☒Yes ☐No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD:	☐Yes ☒No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☒Yes ☐No ☐N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: 7/14/22 MP W	☒Yes ☐No ☐N/A	12. ~~0111814-11 7/14/22 MP~~ 7/14/22 AW
Trip Blank Present:	☒Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 486		

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 login

Page 2 of 2