

Town of Peshtigo
Attn: Chairperson Jennifer Friday
W2435 Old Peshtigo Rd
Marinette, WI 54143

Arcadis U.S., Inc.
790 North Milwaukee Street
Suite 100A
Milwaukee
Wisconsin 53202
www.arcadis.com

Subject: Groundwater Sampling Results
Green Gable Road Right-of-Way, Town of Peshtigo, Wisconsin
Date: 04/02/2025

Dear Chairperson Jennifer Friday,

As you are aware, Arcadis U.S., Inc. (Arcadis) collected a groundwater sample from a monitoring well located within the Green Gable Road Right-of-Way on February 5, 2025. We recorded the sample location, date, and other information and had the sample tested at an accredited, independent laboratory. That testing is now complete.

Laboratory results for this sample is summarized in the attached table. The full results from the laboratory¹ are included with this letter.

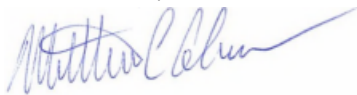
Thank you for your patience and assistance with our investigation. We will continue to provide updates to the community as our work continues.

If you have any questions or want to discuss these results further, please call the toll-free number that has been set up for this matter (800) 314-1381. Contact information for the Wisconsin Department of Natural Resources (WDNR) and Wisconsin Department of Health Services (WDHS) is provided below if you have other questions.

WDNR	Alyssa Sellwood	608-622-8606	Alyssa.Sellwood@wisconsin.gov
	http://dnr.wisconsin.gov/topic/Contaminants/PFAS.html		

WDHS	Amanda Koch	608-405-2292	Amanda.Koch@dhs.wi.gov
	http://www.dhs.wisconsin.gov/chemical/pfas.htm		

Sincerely,
Arcadis U.S., Inc.



Matthew Coleman
Project Communications Manager

Enc. Results Summary Table
 Sampling Location Figure
 Laboratory Results

¹ The attached preliminary laboratory report from TestAmerica Laboratories, Inc. includes sample results and summary quality control/quality assurance (QA/QC) forms associated with the samples. Pages containing sample results and associated QA/QC results that are not associated with this address have been removed from the report.

	February 2025 DHS (Not Yet Proposed for Rulemaking by DNR)	Location Sample ID Sample Date Sample Type	PZ-89-40 PZ-89-40 (020525) 02/05/2025 N
Analyte		Units	
PFBA	--	ng/L	2.4 J
PFPeA	--	ng/L	< 1.6 U
PFHxA	--	ng/L	0.32 J
PFHpA	--	ng/L	< 1.6 U
PFOA	4	ng/L	5.6
PFNA	10	ng/L	< 1.6 U
PFDA	--	ng/L	< 1.6 U
PFUnA	--	ng/L	< 1.6 U
PFDaA	--	ng/L	< 1.6 U
PFTriA	--	ng/L	< 1.6 U
PFTeA	--	ng/L	< 1.6 U
PFBS	2,000	ng/L	0.26 J
PFPeS	--	ng/L	< 1.6 U
PFHxS	10	ng/L	1.0 J
PFHpS	--	ng/L	< 1.6 U
PFOS	4	ng/L	< 1.6 U
PFNS	--	ng/L	< 1.6 U
PFDS	--	ng/L	< 1.6 U
PFDoS	--	ng/L	< 1.6 U
4:2 FTS	--	ng/L	< 3.3 U
6:2 FTS	--	ng/L	0.67 J
8:2 FTS	--	ng/L	< 3.3 U
FOSA	--	ng/L	< 1.6 U
NMeFOSA	--	ng/L	< 1.6 U
NEtFOSA	--	ng/L	< 1.6 U
NMeFOSAA	--	ng/L	< 1.5 U
NEtFOSAA	--	ng/L	< 1.5 U
NMeFOSE	--	ng/L	< 7.7 U
NEtFOSE	--	ng/L	< 7.7 U
PFMPA	--	ng/L	< 1.6 U
PFMBA	--	ng/L	< 1.6 U
NFDHA	--	ng/L	< 1.6 U
HFPO-DA	10	ng/L	< 1.2 U
DONA	--	ng/L	< 1.6 U
PFEESA	--	ng/L	< 1.6 U
9CI-PF3ONS	--	ng/L	< 1.6 U
11CI-PF3OUdS	--	ng/L	< 1.6 U
3:3 FTCA	--	ng/L	< 3.3 U
5:3 FTCA	--	ng/L	< 8.2 U
7:3 FTCA	--	ng/L	< 8.2 U

Notes:

< = Compound not detected at reporting detection limit.

(1) In February 2025, WDHS recommended individual groundwater standards of 4 ng/L for PFOA and PFOS, 10 ng/L for PFHxS, PFNA, and HFPO-DA, and 2,000 ng/L for PFBS. Following the February 2025 WDHS recommendation, the WDNR Secretary and the Governor signed the WDNR scope statement and WDNR is in the early stages of rule development for these groundwater standards.

-- = No standard

N = Normal sample

ng/L = nanograms per liter

U = The analyte was analyzed for but the result was not detected above the method detection limit.

J = The analyte was positively identified; however the associated numerical value is an estimated concentration only

Chemical Abbreviation:

PFBA = Perfluorobutanoic acid

PFPeA = Perfluoropentanoic acid

PFHxA = Perfluorohexanoic acid

PFHpA = Perfluoroheptanoic acid

PFOA = Perfluorooctanoic acid

PFNA = Perfluorononanoic acid

PFDA = Perfluorodecanoic acid

PFUnA = Perfluoroundecanoic acid

PFDoA = Perfluorododecanoic acid

PFTriA = Perfluorotridecanoic acid

PFTeA = Perfluorotetradecanoic acid

PFBS = Perfluorobutanesulfonic acid

PFPeS = Perfluoropentanesulfonic acid

PFHxS = Perfluorohexanesulfonic acid

PFHpS = Perfluoroheptanesulfonic acid

PFOS = Perfluorooctanesulfonic acid

PFNS = Perfluorononanesulfonic acid

PFDS = Perfluorodecanesulfonic acid

PFDoS = Perfluorododecanesulfonic acid

4:2 FTS = 4:2 Fluorotelomer sulfonic acid

6:2 FTS = 6:2 Fluorotelomer sulfonic acid

8:2 FTS = 8:2 Fluorotelomer sulfonic acid

FOSA = Perfluorooctane sulfonamide

NMeFOSA = N-Methyl perfluorooctane sulfonamide

NEtFOSA = N-Ethyl perfluorooctane sulfonamide

NMeFOSAA = N-Methyl perfluorooctane sulfonamidoacetic acid

NEtFOSAA = N-Ethyl perfluorooctane sulfonamidoacetic acid

NMeFOSE = N-Methyl perfluorooctane sulfonamidoethanol

NEtFOSE = N-Ethyl perfluorooctane sulfonamidoethanol

PFMPA = Perfluoro-3-methoxypropanoic acid

PFMBA = Perfluoro-4-methoxybutanoic acid

NFDHA = Nonafluoro-3,6-dioxahexanoic acid

HFPO-DA = Hexafluoropropylene oxide dimer acid

DONA = 4,8-Dioxa-3H-perfluorononanoic acid

PFEESA = Perfluoro(2-ethoxyethane)sulfonic acid

9Cl-PF3ONS = 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid

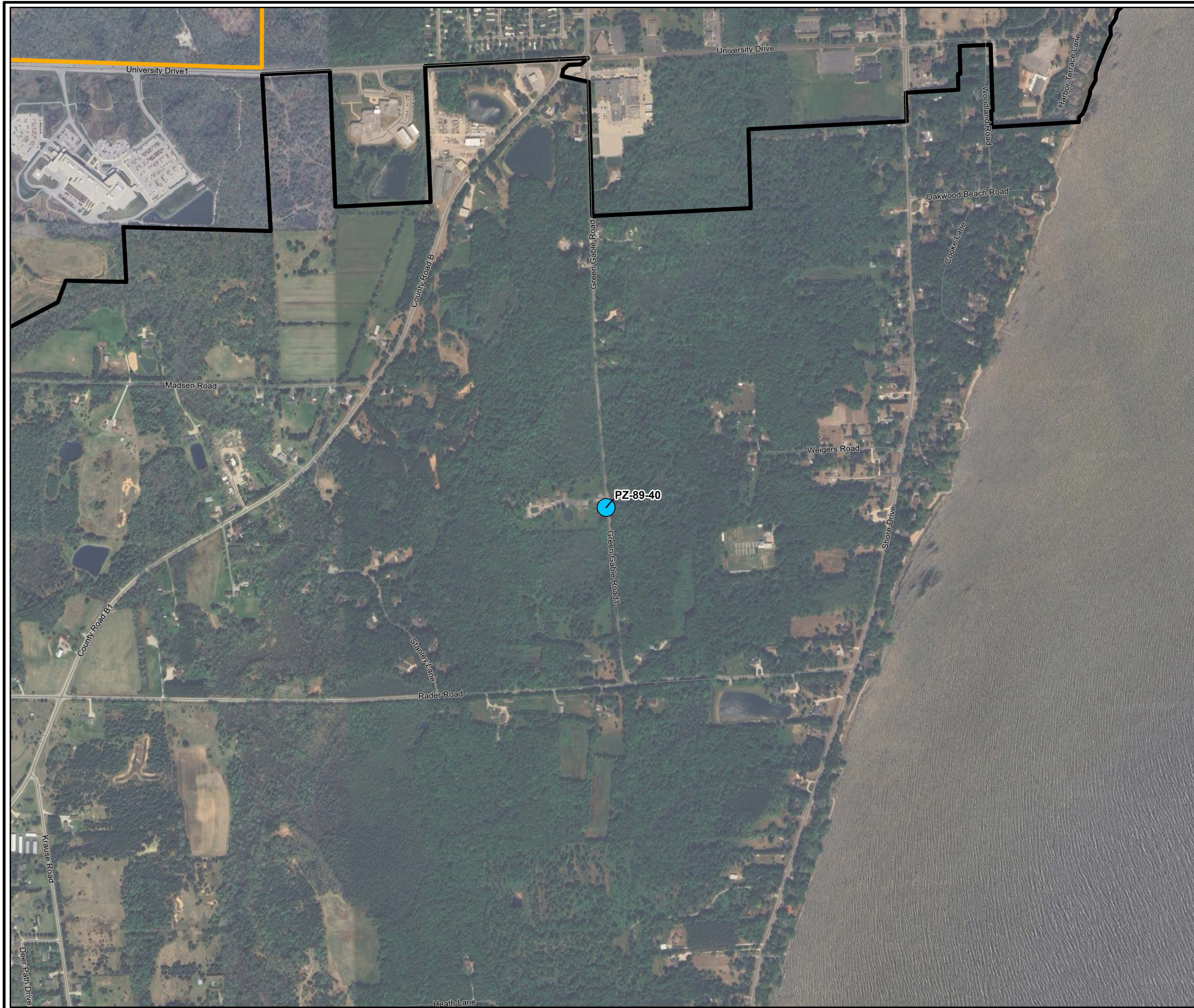
11Cl-PF3OUdS = 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid

3:3 FTCA = 3-Perfluoropropyl propanoic acid

5:3 FTCA = 2H,2H,3H,3H-Perfluorooctanoic acid

7:3 FTCA = 3-Perfluoroheptyl propanoic acid

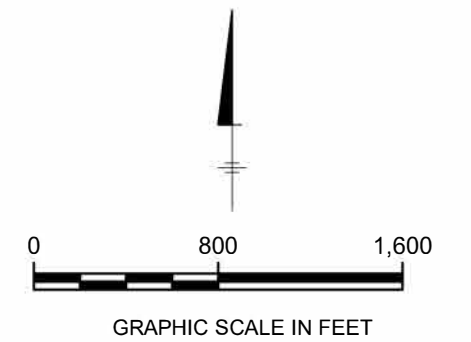
T:\ENV\TYCO\PRO_REPORT_FIGURES\FTC\Results_Letter\aprx 2/25/2025 12:17 PM



- LEGEND:**
- OVERBURDEN MONITORING WELL OR PIEZOMETER
 - APPROXIMATE MARINETTE CITY BOUNDARY
 - APPROXIMATE SITE PROPERTY BOUNDARY
 - ROAD

NOTES:

1. AERIAL IMAGERY GOOGLE EARTH.



TYCO FIRE TECHNOLOGY CENTER
MARINETTE, WISCONSIN

MONITORING LOCATION



FIGURE
1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30237965.4.2.1

Job ID: 500-263677-1

Client Sample ID: PZ-90-20 (020525)

Lab Sample ID: 500-263677-1

Date Collected: 02/05/25 15:00

Matrix: Water

Date Received: 02/07/25 10:00

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	21		3.2	0.30	ng/L		02/10/25 11:45	02/11/25 22:18	1
Perfluoropentanoic acid (PFPeA)	47		1.6	0.18	ng/L		02/10/25 11:45	02/11/25 22:18	1
Perfluorohexanoic acid (PFHxA)	26		1.6	0.21	ng/L		02/10/25 11:45	02/11/25 22:18	1
Perfluoroheptanoic acid (PFHpA)	13		1.6	0.27	ng/L		02/10/25 11:45	02/11/25 22:18	1
Perfluorooctanoic acid (PFOA)	41	^+	1.6	0.31	ng/L		02/10/25 11:45	02/11/25 22:18	1
Perfluorononanoic acid (PFNA)	<1.6		1.6	0.36	ng/L		02/10/25 11:45	02/11/25 22:18	1
Perfluorodecanoic acid (PFDA)	<1.6		1.6	0.35	ng/L		02/10/25 11:45	02/11/25 22:18	1
Perfluoroundecanoic acid (PFUnA)	<1.6		1.6	0.18	ng/L		02/10/25 11:45	02/11/25 22:18	1
Perfluorododecanoic acid (PFDoA)	<1.6		1.6	0.44	ng/L		02/10/25 11:45	02/11/25 22:18	1
Perfluorotridecanoic acid (PFTriA)	<1.6		1.6	0.46	ng/L		02/10/25 11:45	02/11/25 22:18	1
Perfluorotetradecanoic acid (PFTeA)	<1.6		1.6	0.64	ng/L		02/10/25 11:45	02/11/25 22:18	1
Perfluorobutanesulfonic acid (PFBS)	2.9		1.6	0.22	ng/L		02/10/25 11:45	02/11/25 22:18	1
Perfluoropentanesulfonic acid (PFPeS)	<1.6		1.6	0.17	ng/L		02/10/25 11:45	02/11/25 22:18	1
Perfluorohexanesulfonic acid (PFHxS)	0.73	J	1.6	0.19	ng/L		02/10/25 11:45	02/11/25 22:18	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.6		1.6	0.14	ng/L		02/10/25 11:45	02/11/25 22:18	1
Perfluorooctanesulfonic acid (PFOS)	<1.6		1.6	0.22	ng/L		02/10/25 11:45	02/11/25 22:18	1
Perfluorononanesulfonic acid (PFNS)	<1.6		1.6	0.25	ng/L		02/10/25 11:45	02/11/25 22:18	1
Perfluorodecanesulfonic acid (PFDS)	<1.6		1.6	0.25	ng/L		02/10/25 11:45	02/11/25 22:18	1
Perfluorododecanesulfonic acid (PFDoS)	<1.6		1.6	0.42	ng/L		02/10/25 11:45	02/11/25 22:18	1
4:2 FTS	<3.2		3.2	0.35	ng/L		02/10/25 11:45	02/11/25 22:18	1
6:2 FTS	1.9	J	3.2	0.32	ng/L		02/10/25 11:45	02/11/25 22:18	1
8:2 FTS	<3.2		3.2	0.71	ng/L		02/10/25 11:45	02/11/25 22:18	1
Perfluorooctanesulfonamide (FOSA)	<1.6		1.6	0.18	ng/L		02/10/25 11:45	02/11/25 22:18	1
NMeFOSA	<1.6		1.6	0.31	ng/L		02/10/25 11:45	02/11/25 22:18	1
NEtFOSA	<1.6		1.6	0.35	ng/L		02/10/25 11:45	02/11/25 22:18	1
NMeFOSAA	<1.6		1.6	0.28	ng/L		02/10/25 11:45	02/11/25 22:18	1
NEtFOSAA	<1.6		1.6	0.35	ng/L		02/10/25 11:45	02/11/25 22:18	1
NMeFOSE	<7.9		7.9	1.8	ng/L		02/10/25 11:45	02/11/25 22:18	1
NEtFOSE	<7.9		7.9	1.9	ng/L		02/10/25 11:45	02/11/25 22:18	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.2		1.2	0.31	ng/L		02/10/25 11:45	02/11/25 22:18	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.6		1.6	0.32	ng/L		02/10/25 11:45	02/11/25 22:18	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.6	^+	1.6	0.15	ng/L		02/10/25 11:45	02/11/25 22:18	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.6		1.6	0.20	ng/L		02/10/25 11:45	02/11/25 22:18	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.6	^+	1.6	0.57	ng/L		02/10/25 11:45	02/11/25 22:18	1
F-53B Major	<1.6		1.6	0.46	ng/L		02/10/25 11:45	02/11/25 22:18	1
F-53B Minor	<1.6	^+	1.6	0.24	ng/L		02/10/25 11:45	02/11/25 22:18	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<1.6		1.6	0.20	ng/L		02/10/25 11:45	02/11/25 22:18	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.2	^+	3.2	0.57	ng/L		02/10/25 11:45	02/11/25 22:18	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<7.9	^+	7.9	1.4	ng/L		02/10/25 11:45	02/11/25 22:18	1

Eurofins Chicago

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30237965.4.2.1

Job ID: 500-263677-1

Client Sample ID: PZ-90-20 (020525)

Lab Sample ID: 500-263677-1

Date Collected: 02/05/25 15:00

Matrix: Water

Date Received: 02/07/25 10:00

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<7.9	^+	7.9	0.98	ng/L		02/10/25 11:45	02/11/25 22:18	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	103		5 - 130				02/10/25 11:45	02/11/25 22:18	1
13C5 PFPeA	114		40 - 130				02/10/25 11:45	02/11/25 22:18	1
13C5 PFHxA	127		40 - 130				02/10/25 11:45	02/11/25 22:18	1
13C4 PFHpA	100		40 - 130				02/10/25 11:45	02/11/25 22:18	1
13C8 PFOA	93.0		40 - 130				02/10/25 11:45	02/11/25 22:18	1
13C9 PFNA	90.4		40 - 130				02/10/25 11:45	02/11/25 22:18	1
13C6 PFDA	79.7		40 - 130				02/10/25 11:45	02/11/25 22:18	1
13C7 PFUnA	78.3		30 - 130				02/10/25 11:45	02/11/25 22:18	1
13C2 PFDoA	81.8		10 - 130				02/10/25 11:45	02/11/25 22:18	1
13C2 PFTeDA	80.5		10 - 130				02/10/25 11:45	02/11/25 22:18	1
13C3 PFBS	88.8		40 - 135				02/10/25 11:45	02/11/25 22:18	1
13C3 PFHxS	107		40 - 130				02/10/25 11:45	02/11/25 22:18	1
13C8 PFOS	95.6		40 - 130				02/10/25 11:45	02/11/25 22:18	1
13C8 FOSA	122		40 - 130				02/10/25 11:45	02/11/25 22:18	1
d3-NMeFOSAA	125		40 - 170				02/10/25 11:45	02/11/25 22:18	1
d5-NEtFOSAA	116		25 - 135				02/10/25 11:45	02/11/25 22:18	1
M2-4:2 FTS	197		40 - 200				02/10/25 11:45	02/11/25 22:18	1
M2-6:2 FTS	159		40 - 200				02/10/25 11:45	02/11/25 22:18	1
M2-8:2 FTS	166		40 - 300				02/10/25 11:45	02/11/25 22:18	1
13C3 HFPO-DA	86.2		40 - 130				02/10/25 11:45	02/11/25 22:18	1
d7-N-MeFOSE-M	72.2		10 - 130				02/10/25 11:45	02/11/25 22:18	1
d9-N-EtFOSE-M	67.2		10 - 130				02/10/25 11:45	02/11/25 22:18	1
d5-NEtPFOSA	59.5		10 - 130				02/10/25 11:45	02/11/25 22:18	1
d3-NMePFOSA	67.9		10 - 130				02/10/25 11:45	02/11/25 22:18	1

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	21		3.2	0.30	ng/L		02/10/25 11:45	02/12/25 11:31	1
Perfluoropentanoic acid (PFPeA)	46		1.6	0.18	ng/L		02/10/25 11:45	02/12/25 11:31	1
Perfluorohexanoic acid (PFHxA)	28		1.6	0.21	ng/L		02/10/25 11:45	02/12/25 11:31	1
Perfluoroheptanoic acid (PFHpA)	15		1.6	0.27	ng/L		02/10/25 11:45	02/12/25 11:31	1
Perfluorooctanoic acid (PFOA)	36		1.6	0.31	ng/L		02/10/25 11:45	02/12/25 11:31	1
Perfluorononanoic acid (PFNA)	<1.6		1.6	0.36	ng/L		02/10/25 11:45	02/12/25 11:31	1
Perfluorodecanoic acid (PFDA)	<1.6		1.6	0.35	ng/L		02/10/25 11:45	02/12/25 11:31	1
Perfluoroundecanoic acid (PFUnA)	<1.6		1.6	0.18	ng/L		02/10/25 11:45	02/12/25 11:31	1
Perfluorododecanoic acid (PFDoA)	<1.6		1.6	0.44	ng/L		02/10/25 11:45	02/12/25 11:31	1
Perfluorotridecanoic acid (PFTriA)	<1.6		1.6	0.46	ng/L		02/10/25 11:45	02/12/25 11:31	1
Perfluorotetradecanoic acid (PFTeA)	<1.6		1.6	0.64	ng/L		02/10/25 11:45	02/12/25 11:31	1
Perfluorobutanesulfonic acid (PFBS)	3.3		1.6	0.22	ng/L		02/10/25 11:45	02/12/25 11:31	1
Perfluoropentanesulfonic acid (PFPeS)	<1.6		1.6	0.17	ng/L		02/10/25 11:45	02/12/25 11:31	1
Perfluorohexanesulfonic acid (PFHxS)	0.68 J		1.6	0.19	ng/L		02/10/25 11:45	02/12/25 11:31	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.6		1.6	0.14	ng/L		02/10/25 11:45	02/12/25 11:31	1
Perfluorooctanesulfonic acid (PFOS)	<1.6		1.6	0.22	ng/L		02/10/25 11:45	02/12/25 11:31	1
Perfluorononanesulfonic acid (PFNS)	<1.6		1.6	0.25	ng/L		02/10/25 11:45	02/12/25 11:31	1

Eurofins Chicago

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30237965.4.2.1

Job ID: 500-263677-1

Client Sample ID: PZ-90-20 (020525)

Lab Sample ID: 500-263677-1

Date Collected: 02/05/25 15:00

Matrix: Water

Date Received: 02/07/25 10:00

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanesulfonic acid (PFDS)	<1.6		1.6	0.25	ng/L		02/10/25 11:45	02/12/25 11:31	1
Perfluorododecanesulfonic acid (PFDoS)	<1.6		1.6	0.42	ng/L		02/10/25 11:45	02/12/25 11:31	1
4:2 FTS	<3.2		3.2	0.35	ng/L		02/10/25 11:45	02/12/25 11:31	1
6:2 FTS	1.9 J		3.2	0.32	ng/L		02/10/25 11:45	02/12/25 11:31	1
8:2 FTS	<3.2		3.2	0.71	ng/L		02/10/25 11:45	02/12/25 11:31	1
Perfluorooctanesulfonamide (FOSA)	<1.6		1.6	0.18	ng/L		02/10/25 11:45	02/12/25 11:31	1
NMeFOSA	<1.6		1.6	0.31	ng/L		02/10/25 11:45	02/12/25 11:31	1
NEtFOSA	<1.6		1.6	0.35	ng/L		02/10/25 11:45	02/12/25 11:31	1
NMeFOSAA	<1.6		1.6	0.28	ng/L		02/10/25 11:45	02/12/25 11:31	1
NEtFOSAA	<1.6		1.6	0.35	ng/L		02/10/25 11:45	02/12/25 11:31	1
NMeFOSE	<7.9		7.9	1.8	ng/L		02/10/25 11:45	02/12/25 11:31	1
NEtFOSE	<7.9		7.9	1.9	ng/L		02/10/25 11:45	02/12/25 11:31	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.2		1.2	0.31	ng/L		02/10/25 11:45	02/12/25 11:31	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.6		1.6	0.32	ng/L		02/10/25 11:45	02/12/25 11:31	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.6		1.6	0.15	ng/L		02/10/25 11:45	02/12/25 11:31	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.6		1.6	0.20	ng/L		02/10/25 11:45	02/12/25 11:31	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.6		1.6	0.57	ng/L		02/10/25 11:45	02/12/25 11:31	1
F-53B Major	<1.6		1.6	0.46	ng/L		02/10/25 11:45	02/12/25 11:31	1
F-53B Minor	<1.6		1.6	0.24	ng/L		02/10/25 11:45	02/12/25 11:31	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEISA)	<1.6		1.6	0.20	ng/L		02/10/25 11:45	02/12/25 11:31	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.2		3.2	0.57	ng/L		02/10/25 11:45	02/12/25 11:31	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<7.9		7.9	1.4	ng/L		02/10/25 11:45	02/12/25 11:31	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<7.9		7.9	0.98	ng/L		02/10/25 11:45	02/12/25 11:31	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	105		5 - 130	02/10/25 11:45	02/12/25 11:31	1
13C5 PFPeA	108		40 - 130	02/10/25 11:45	02/12/25 11:31	1
13C5 PFHxA	120		40 - 130	02/10/25 11:45	02/12/25 11:31	1
13C4 PFHpA	89.8		40 - 130	02/10/25 11:45	02/12/25 11:31	1
13C8 PFOA	103		40 - 130	02/10/25 11:45	02/12/25 11:31	1
13C9 PFNA	85.6		40 - 130	02/10/25 11:45	02/12/25 11:31	1
13C6 PFDA	78.2		40 - 130	02/10/25 11:45	02/12/25 11:31	1
13C7 PFUnA	87.3		30 - 130	02/10/25 11:45	02/12/25 11:31	1
13C2 PFDoA	82.0		10 - 130	02/10/25 11:45	02/12/25 11:31	1
13C2 PFTeDA	71.8		10 - 130	02/10/25 11:45	02/12/25 11:31	1
13C3 PFBS	103		40 - 135	02/10/25 11:45	02/12/25 11:31	1
13C3 PFHxS	108		40 - 130	02/10/25 11:45	02/12/25 11:31	1
13C8 PFOS	96.5		40 - 130	02/10/25 11:45	02/12/25 11:31	1
13C8 FOSA	82.6		40 - 130	02/10/25 11:45	02/12/25 11:31	1
d3-NMeFOSAA	98.4		40 - 170	02/10/25 11:45	02/12/25 11:31	1
d5-NEtFOSAA	103		25 - 135	02/10/25 11:45	02/12/25 11:31	1
M2-4:2 FTS	195		40 - 200	02/10/25 11:45	02/12/25 11:31	1
M2-6:2 FTS	139		40 - 200	02/10/25 11:45	02/12/25 11:31	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30237965.4.2.1

Job ID: 500-263677-1

Client Sample ID: PZ-90-20 (020525)

Lab Sample ID: 500-263677-1

Date Collected: 02/05/25 15:00

Matrix: Water

Date Received: 02/07/25 10:00

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-8:2 FTS	150		40 - 300	02/10/25 11:45	02/12/25 11:31	1
13C3 HFPO-DA	86.4		40 - 130	02/10/25 11:45	02/12/25 11:31	1
d7-N-MeFOSE-M	47.1		10 - 130	02/10/25 11:45	02/12/25 11:31	1
d9-N-EtFOSE-M	44.7		10 - 130	02/10/25 11:45	02/12/25 11:31	1
d5-NEtPFOSA	54.4		10 - 130	02/10/25 11:45	02/12/25 11:31	1
d3-NMePFOSA	54.8		10 - 130	02/10/25 11:45	02/12/25 11:31	1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30237965.4.2.1

Job ID: 500-263677-1

Client Sample ID: PZ-89-40 (020525)

Lab Sample ID: 500-263677-2

Date Collected: 02/05/25 16:15

Matrix: Water

Date Received: 02/07/25 10:00

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.3	J	3.1	0.29	ng/L		02/10/25 11:45	02/11/25 22:32	1
Perfluoropentanoic acid (PFPeA)	<1.5		1.5	0.18	ng/L		02/10/25 11:45	02/11/25 22:32	1
Perfluorohexanoic acid (PFHxA)	<1.5		1.5	0.21	ng/L		02/10/25 11:45	02/11/25 22:32	1
Perfluoroheptanoic acid (PFHpA)	<1.5		1.5	0.27	ng/L		02/10/25 11:45	02/11/25 22:32	1
Perfluorooctanoic acid (PFOA)	5.7	^+	1.5	0.30	ng/L		02/10/25 11:45	02/11/25 22:32	1
Perfluorononanoic acid (PFNA)	<1.5		1.5	0.35	ng/L		02/10/25 11:45	02/11/25 22:32	1
Perfluorodecanoic acid (PFDA)	<1.5		1.5	0.34	ng/L		02/10/25 11:45	02/11/25 22:32	1
Perfluoroundecanoic acid (PFUnA)	<1.5		1.5	0.17	ng/L		02/10/25 11:45	02/11/25 22:32	1
Perfluorododecanoic acid (PFDoA)	<1.5		1.5	0.43	ng/L		02/10/25 11:45	02/11/25 22:32	1
Perfluorotridecanoic acid (PFTriA)	<1.5		1.5	0.44	ng/L		02/10/25 11:45	02/11/25 22:32	1
Perfluorotetradecanoic acid (PFTeA)	0.75	J	1.5	0.62	ng/L		02/10/25 11:45	02/11/25 22:32	1
Perfluorobutanesulfonic acid (PFBS)	<1.5		1.5	0.21	ng/L		02/10/25 11:45	02/11/25 22:32	1
Perfluoropentanesulfonic acid (PFPeS)	<1.5		1.5	0.16	ng/L		02/10/25 11:45	02/11/25 22:32	1
Perfluorohexanesulfonic acid (PFHxS)	0.69	J	1.5	0.19	ng/L		02/10/25 11:45	02/11/25 22:32	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.5		1.5	0.13	ng/L		02/10/25 11:45	02/11/25 22:32	1
Perfluorooctanesulfonic acid (PFOS)	<1.5		1.5	0.21	ng/L		02/10/25 11:45	02/11/25 22:32	1
Perfluorononanesulfonic acid (PFNS)	<1.5		1.5	0.24	ng/L		02/10/25 11:45	02/11/25 22:32	1
Perfluorodecanesulfonic acid (PFDS)	0.40	J	1.5	0.24	ng/L		02/10/25 11:45	02/11/25 22:32	1
Perfluorododecanesulfonic acid (PFDoS)	<1.5		1.5	0.41	ng/L		02/10/25 11:45	02/11/25 22:32	1
4:2 FTS	<3.1		3.1	0.34	ng/L		02/10/25 11:45	02/11/25 22:32	1
6:2 FTS	0.39	J	3.1	0.31	ng/L		02/10/25 11:45	02/11/25 22:32	1
8:2 FTS	<3.1		3.1	0.69	ng/L		02/10/25 11:45	02/11/25 22:32	1
Perfluorooctanesulfonamide (FOSA)	<1.5		1.5	0.17	ng/L		02/10/25 11:45	02/11/25 22:32	1
NMeFOSA	<1.5		1.5	0.30	ng/L		02/10/25 11:45	02/11/25 22:32	1
NEtFOSA	<1.5		1.5	0.34	ng/L		02/10/25 11:45	02/11/25 22:32	1
NMeFOSAA	<1.5		1.5	0.27	ng/L		02/10/25 11:45	02/11/25 22:32	1
NEtFOSAA	<1.5		1.5	0.34	ng/L		02/10/25 11:45	02/11/25 22:32	1
NMeFOSE	<7.7		7.7	1.8	ng/L		02/10/25 11:45	02/11/25 22:32	1
NEtFOSE	<7.7		7.7	1.9	ng/L		02/10/25 11:45	02/11/25 22:32	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.2		1.2	0.30	ng/L		02/10/25 11:45	02/11/25 22:32	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.5		1.5	0.31	ng/L		02/10/25 11:45	02/11/25 22:32	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.5	^+	1.5	0.15	ng/L		02/10/25 11:45	02/11/25 22:32	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.5		1.5	0.20	ng/L		02/10/25 11:45	02/11/25 22:32	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.5	^+	1.5	0.55	ng/L		02/10/25 11:45	02/11/25 22:32	1
F-53B Major	<1.5		1.5	0.44	ng/L		02/10/25 11:45	02/11/25 22:32	1
F-53B Minor	0.43	J ^+	1.5	0.23	ng/L		02/10/25 11:45	02/11/25 22:32	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<1.5		1.5	0.19	ng/L		02/10/25 11:45	02/11/25 22:32	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.1	^+	3.1	0.55	ng/L		02/10/25 11:45	02/11/25 22:32	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<7.7	^+	7.7	1.3	ng/L		02/10/25 11:45	02/11/25 22:32	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30237965.4.2.1

Job ID: 500-263677-1

Client Sample ID: PZ-89-40 (020525)

Lab Sample ID: 500-263677-2

Date Collected: 02/05/25 16:15

Matrix: Water

Date Received: 02/07/25 10:00

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<7.7	^+	7.7	0.95	ng/L		02/10/25 11:45	02/11/25 22:32	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	91.2		5 - 130				02/10/25 11:45	02/11/25 22:32	1
13C5 PFPeA	121		40 - 130				02/10/25 11:45	02/11/25 22:32	1
13C5 PFHxA	117		40 - 130				02/10/25 11:45	02/11/25 22:32	1
13C4 PFHpA	91.7		40 - 130				02/10/25 11:45	02/11/25 22:32	1
13C8 PFOA	99.1		40 - 130				02/10/25 11:45	02/11/25 22:32	1
13C9 PFNA	87.1		40 - 130				02/10/25 11:45	02/11/25 22:32	1
13C6 PFDA	74.4		40 - 130				02/10/25 11:45	02/11/25 22:32	1
13C7 PFUnA	74.8		30 - 130				02/10/25 11:45	02/11/25 22:32	1
13C2 PFDoA	79.4		10 - 130				02/10/25 11:45	02/11/25 22:32	1
13C2 PFTeDA	77.3		10 - 130				02/10/25 11:45	02/11/25 22:32	1
13C3 PFBS	75.7		40 - 135				02/10/25 11:45	02/11/25 22:32	1
13C3 PFHxS	108		40 - 130				02/10/25 11:45	02/11/25 22:32	1
13C8 PFOS	99.8		40 - 130				02/10/25 11:45	02/11/25 22:32	1
13C8 FOSA	137	*5+	40 - 130				02/10/25 11:45	02/11/25 22:32	1
d3-NMeFOSAA	117		40 - 170				02/10/25 11:45	02/11/25 22:32	1
d5-NEtFOSAA	120		25 - 135				02/10/25 11:45	02/11/25 22:32	1
M2-4:2 FTS	157		40 - 200				02/10/25 11:45	02/11/25 22:32	1
M2-6:2 FTS	159		40 - 200				02/10/25 11:45	02/11/25 22:32	1
M2-8:2 FTS	127		40 - 300				02/10/25 11:45	02/11/25 22:32	1
13C3 HFPO-DA	80.9		40 - 130				02/10/25 11:45	02/11/25 22:32	1
d7-N-MeFOSE-M	77.2		10 - 130				02/10/25 11:45	02/11/25 22:32	1
d9-N-EtFOSE-M	79.4		10 - 130				02/10/25 11:45	02/11/25 22:32	1
d5-NEtPFOSA	78.3		10 - 130				02/10/25 11:45	02/11/25 22:32	1
d3-NMePFOSA	86.4		10 - 130				02/10/25 11:45	02/11/25 22:32	1

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.1	J	3.1	0.29	ng/L		02/10/25 11:45	02/12/25 11:45	1
Perfluoropentanoic acid (PFPeA)	<1.5		1.5	0.18	ng/L		02/10/25 11:45	02/12/25 11:45	1
Perfluorohexanoic acid (PFHxA)	<1.5		1.5	0.21	ng/L		02/10/25 11:45	02/12/25 11:45	1
Perfluoroheptanoic acid (PFHpA)	<1.5		1.5	0.27	ng/L		02/10/25 11:45	02/12/25 11:45	1
Perfluorooctanoic acid (PFOA)	5.3		1.5	0.30	ng/L		02/10/25 11:45	02/12/25 11:45	1
Perfluorononanoic acid (PFNA)	<1.5		1.5	0.35	ng/L		02/10/25 11:45	02/12/25 11:45	1
Perfluorodecanoic acid (PFDA)	<1.5		1.5	0.34	ng/L		02/10/25 11:45	02/12/25 11:45	1
Perfluoroundecanoic acid (PFUnA)	<1.5		1.5	0.17	ng/L		02/10/25 11:45	02/12/25 11:45	1
Perfluorododecanoic acid (PFDoA)	<1.5		1.5	0.43	ng/L		02/10/25 11:45	02/12/25 11:45	1
Perfluorotridecanoic acid (PFTriA)	<1.5		1.5	0.44	ng/L		02/10/25 11:45	02/12/25 11:45	1
Perfluorotetradecanoic acid (PFTeA)	0.80	J	1.5	0.62	ng/L		02/10/25 11:45	02/12/25 11:45	1
Perfluorobutanesulfonic acid (PFBS)	0.37	J	1.5	0.21	ng/L		02/10/25 11:45	02/12/25 11:45	1
Perfluoropentanesulfonic acid (PFPeS)	<1.5		1.5	0.16	ng/L		02/10/25 11:45	02/12/25 11:45	1
Perfluorohexanesulfonic acid (PFHxS)	0.67	J	1.5	0.19	ng/L		02/10/25 11:45	02/12/25 11:45	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.5		1.5	0.13	ng/L		02/10/25 11:45	02/12/25 11:45	1
Perfluorooctanesulfonic acid (PFOS)	<1.5		1.5	0.21	ng/L		02/10/25 11:45	02/12/25 11:45	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30237965.4.2.1

Job ID: 500-263677-1

Client Sample ID: PZ-89-40 (020525)

Lab Sample ID: 500-263677-2

Date Collected: 02/05/25 16:15

Matrix: Water

Date Received: 02/07/25 10:00

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanesulfonic acid (PFNS)	<1.5		1.5	0.24	ng/L		02/10/25 11:45	02/12/25 11:45	1
Perfluorodecanesulfonic acid (PFDS)	0.47	J	1.5	0.24	ng/L		02/10/25 11:45	02/12/25 11:45	1
Perfluorododecanesulfonic acid (PFDoS)	<1.5		1.5	0.41	ng/L		02/10/25 11:45	02/12/25 11:45	1
4:2 FTS	<3.1		3.1	0.34	ng/L		02/10/25 11:45	02/12/25 11:45	1
6:2 FTS	0.43	J	3.1	0.31	ng/L		02/10/25 11:45	02/12/25 11:45	1
8:2 FTS	<3.1		3.1	0.69	ng/L		02/10/25 11:45	02/12/25 11:45	1
Perfluorooctanesulfonamide (FOSA)	<1.5		1.5	0.17	ng/L		02/10/25 11:45	02/12/25 11:45	1
NMeFOSA	<1.5		1.5	0.30	ng/L		02/10/25 11:45	02/12/25 11:45	1
NEtFOSA	<1.5		1.5	0.34	ng/L		02/10/25 11:45	02/12/25 11:45	1
NMeFOSAA	<1.5		1.5	0.27	ng/L		02/10/25 11:45	02/12/25 11:45	1
NEtFOSAA	<1.5		1.5	0.34	ng/L		02/10/25 11:45	02/12/25 11:45	1
NMeFOSE	<7.7		7.7	1.8	ng/L		02/10/25 11:45	02/12/25 11:45	1
NEtFOSE	<7.7		7.7	1.9	ng/L		02/10/25 11:45	02/12/25 11:45	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.2		1.2	0.30	ng/L		02/10/25 11:45	02/12/25 11:45	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.5		1.5	0.31	ng/L		02/10/25 11:45	02/12/25 11:45	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.5		1.5	0.15	ng/L		02/10/25 11:45	02/12/25 11:45	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.5		1.5	0.20	ng/L		02/10/25 11:45	02/12/25 11:45	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.5		1.5	0.55	ng/L		02/10/25 11:45	02/12/25 11:45	1
F-53B Major	<1.5		1.5	0.44	ng/L		02/10/25 11:45	02/12/25 11:45	1
F-53B Minor	0.33	J	1.5	0.23	ng/L		02/10/25 11:45	02/12/25 11:45	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<1.5		1.5	0.19	ng/L		02/10/25 11:45	02/12/25 11:45	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.1		3.1	0.55	ng/L		02/10/25 11:45	02/12/25 11:45	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<7.7		7.7	1.3	ng/L		02/10/25 11:45	02/12/25 11:45	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<7.7		7.7	0.95	ng/L		02/10/25 11:45	02/12/25 11:45	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	95.3		5 - 130	02/10/25 11:45	02/12/25 11:45	1
13C5 PFPeA	116		40 - 130	02/10/25 11:45	02/12/25 11:45	1
13C5 PFHxA	120		40 - 130	02/10/25 11:45	02/12/25 11:45	1
13C4 PFHpA	108		40 - 130	02/10/25 11:45	02/12/25 11:45	1
13C8 PFOA	97.6		40 - 130	02/10/25 11:45	02/12/25 11:45	1
13C9 PFNA	91.1		40 - 130	02/10/25 11:45	02/12/25 11:45	1
13C6 PFDA	87.3		40 - 130	02/10/25 11:45	02/12/25 11:45	1
13C7 PFUnA	77.1		30 - 130	02/10/25 11:45	02/12/25 11:45	1
13C2 PFDoA	71.7		10 - 130	02/10/25 11:45	02/12/25 11:45	1
13C2 PFTeDA	70.9		10 - 130	02/10/25 11:45	02/12/25 11:45	1
13C3 PFBS	86.3		40 - 135	02/10/25 11:45	02/12/25 11:45	1
13C3 PFHxS	104		40 - 130	02/10/25 11:45	02/12/25 11:45	1
13C8 PFOS	86.9		40 - 130	02/10/25 11:45	02/12/25 11:45	1
13C8 FOSA	91.3		40 - 130	02/10/25 11:45	02/12/25 11:45	1
d3-NMeFOSAA	94.0		40 - 170	02/10/25 11:45	02/12/25 11:45	1
d5-NEtFOSAA	106		25 - 135	02/10/25 11:45	02/12/25 11:45	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30237965.4.2.1

Job ID: 500-263677-1

Client Sample ID: PZ-89-40 (020525)

Lab Sample ID: 500-263677-2

Date Collected: 02/05/25 16:15

Matrix: Water

Date Received: 02/07/25 10:00

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	114		40 - 200	02/10/25 11:45	02/12/25 11:45	1
M2-6:2 FTS	118		40 - 200	02/10/25 11:45	02/12/25 11:45	1
M2-8:2 FTS	114		40 - 300	02/10/25 11:45	02/12/25 11:45	1
13C3 HFPO-DA	104		40 - 130	02/10/25 11:45	02/12/25 11:45	1
d7-N-MeFOSE-M	50.2		10 - 130	02/10/25 11:45	02/12/25 11:45	1
d9-N-EtFOSE-M	50.8		10 - 130	02/10/25 11:45	02/12/25 11:45	1
d5-NEtPFOSA	61.7		10 - 130	02/10/25 11:45	02/12/25 11:45	1
d3-NMePFOSA	67.9		10 - 130	02/10/25 11:45	02/12/25 11:45	1

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.4	J H	3.3	0.31	ng/L		02/27/25 12:09	02/28/25 09:47	1
Perfluoropentanoic acid (PFPeA)	<1.6	H	1.6	0.19	ng/L		02/27/25 12:09	02/28/25 09:47	1
Perfluorohexanoic acid (PFHxA)	0.32	J H	1.6	0.22	ng/L		02/27/25 12:09	02/28/25 09:47	1
Perfluoroheptanoic acid (PFHpA)	<1.6	H	1.6	0.28	ng/L		02/27/25 12:09	02/28/25 09:47	1
Perfluorooctanoic acid (PFOA)	5.6	H	1.6	0.32	ng/L		02/27/25 12:09	02/28/25 09:47	1
Perfluorononanoic acid (PFNA)	<1.6	H	1.6	0.37	ng/L		02/27/25 12:09	02/28/25 09:47	1
Perfluorodecanoic acid (PFDA)	<1.6	H	1.6	0.36	ng/L		02/27/25 12:09	02/28/25 09:47	1
Perfluoroundecanoic acid (PFUnA)	<1.6	H	1.6	0.19	ng/L		02/27/25 12:09	02/28/25 09:47	1
Perfluorododecanoic acid (PFDoA)	<1.6	H	1.6	0.45	ng/L		02/27/25 12:09	02/28/25 09:47	1
Perfluorotridecanoic acid (PFTriA)	<1.6	H	1.6	0.47	ng/L		02/27/25 12:09	02/28/25 09:47	1
Perfluorotetradecanoic acid (PFTeA)	<1.6	H	1.6	0.66	ng/L		02/27/25 12:09	02/28/25 09:47	1
Perfluorobutanesulfonic acid (PFBS)	0.26	J H	1.6	0.23	ng/L		02/27/25 12:09	02/28/25 09:47	1
Perfluoropentanesulfonic acid (PFPeS)	<1.6	H	1.6	0.17	ng/L		02/27/25 12:09	02/28/25 09:47	1
Perfluorohexanesulfonic acid (PFHxS)	1.0	J H	1.6	0.20	ng/L		02/27/25 12:09	02/28/25 09:47	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.6	H	1.6	0.14	ng/L		02/27/25 12:09	02/28/25 09:47	1
Perfluorooctanesulfonic acid (PFOS)	<1.6	H	1.6	0.23	ng/L		02/27/25 12:09	02/28/25 09:47	1
Perfluorononanesulfonic acid (PFNS)	<1.6	H	1.6	0.25	ng/L		02/27/25 12:09	02/28/25 09:47	1
Perfluorodecanesulfonic acid (PFDS)	<1.6	H	1.6	0.25	ng/L		02/27/25 12:09	02/28/25 09:47	1
Perfluorododecanesulfonic acid (PFDoS)	<1.6	H	1.6	0.43	ng/L		02/27/25 12:09	02/28/25 09:47	1
4:2 FTS	<3.3	H	3.3	0.36	ng/L		02/27/25 12:09	02/28/25 09:47	1
6:2 FTS	0.67	J H	3.3	0.33	ng/L		02/27/25 12:09	02/28/25 09:47	1
8:2 FTS	<3.3	H	3.3	0.73	ng/L		02/27/25 12:09	02/28/25 09:47	1
Perfluorooctanesulfonamide (FOSA)	<1.6	H	1.6	0.18	ng/L		02/27/25 12:09	02/28/25 09:47	1
NMeFOSA	<1.6	H	1.6	0.32	ng/L		02/27/25 12:09	02/28/25 09:47	1
NEtFOSA	<1.6	H	1.6	0.36	ng/L		02/27/25 12:09	02/28/25 09:47	1
NMeFOSAA	<1.6	H	1.6	0.29	ng/L		02/27/25 12:09	02/28/25 09:47	1
NEtFOSAA	<1.6	H	1.6	0.36	ng/L		02/27/25 12:09	02/28/25 09:47	1
NMeFOSE	<8.2	H	8.2	1.9	ng/L		02/27/25 12:09	02/28/25 09:47	1
NEtFOSE	<8.2	H	8.2	2.0	ng/L		02/27/25 12:09	02/28/25 09:47	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.2	H	1.2	0.32	ng/L		02/27/25 12:09	02/28/25 09:47	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.6	H	1.6	0.33	ng/L		02/27/25 12:09	02/28/25 09:47	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.6	H	1.6	0.16	ng/L		02/27/25 12:09	02/28/25 09:47	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30237965.4.2.1

Job ID: 500-263677-1

Client Sample ID: PZ-89-40 (020525)

Lab Sample ID: 500-263677-2

Date Collected: 02/05/25 16:15

Matrix: Water

Date Received: 02/07/25 10:00

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.6	H	1.6	0.21	ng/L		02/27/25 12:09	02/28/25 09:47	1
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	<1.6	H	1.6	0.59	ng/L		02/27/25 12:09	02/28/25 09:47	1
F-53B Major	<1.6	H	1.6	0.47	ng/L		02/27/25 12:09	02/28/25 09:47	1
F-53B Minor	<1.6	H	1.6	0.24	ng/L		02/27/25 12:09	02/28/25 09:47	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<1.6	H	1.6	0.20	ng/L		02/27/25 12:09	02/28/25 09:47	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.3	H	3.3	0.59	ng/L		02/27/25 12:09	02/28/25 09:47	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<8.2	H	8.2	1.4	ng/L		02/27/25 12:09	02/28/25 09:47	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<8.2	H	8.2	1.0	ng/L		02/27/25 12:09	02/28/25 09:47	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	79.6		5 - 130				02/27/25 12:09	02/28/25 09:47	1
13C5 PFPeA	81.5		40 - 130				02/27/25 12:09	02/28/25 09:47	1
13C5 PFHxA	71.7		40 - 130				02/27/25 12:09	02/28/25 09:47	1
13C4 PFHpA	80.7		40 - 130				02/27/25 12:09	02/28/25 09:47	1
13C8 PFOA	79.1		40 - 130				02/27/25 12:09	02/28/25 09:47	1
13C9 PFNA	80.6		40 - 130				02/27/25 12:09	02/28/25 09:47	1
13C6 PFDA	66.0		40 - 130				02/27/25 12:09	02/28/25 09:47	1
13C7 PFUnA	68.0		30 - 130				02/27/25 12:09	02/28/25 09:47	1
13C2 PFDoA	58.9		10 - 130				02/27/25 12:09	02/28/25 09:47	1
13C2 PFTeDA	58.5		10 - 130				02/27/25 12:09	02/28/25 09:47	1
13C3 PFBS	67.2		40 - 135				02/27/25 12:09	02/28/25 09:47	1
13C3 PFHxS	60.1		40 - 130				02/27/25 12:09	02/28/25 09:47	1
13C8 PFOS	81.0		40 - 130				02/27/25 12:09	02/28/25 09:47	1
13C8 FOSA	65.1		40 - 130				02/27/25 12:09	02/28/25 09:47	1
d3-NMeFOSAA	60.6		40 - 170				02/27/25 12:09	02/28/25 09:47	1
d5-NEtFOSAA	58.1		25 - 135				02/27/25 12:09	02/28/25 09:47	1
M2-4:2 FTS	76.8		40 - 200				02/27/25 12:09	02/28/25 09:47	1
M2-6:2 FTS	71.5		40 - 200				02/27/25 12:09	02/28/25 09:47	1
M2-8:2 FTS	64.5		40 - 300				02/27/25 12:09	02/28/25 09:47	1
13C3 HFPO-DA	82.8		40 - 130				02/27/25 12:09	02/28/25 09:47	1
d7-N-MeFOSE-M	56.5		10 - 130				02/27/25 12:09	02/28/25 09:47	1
d9-N-EtFOSE-M	46.0		10 - 130				02/27/25 12:09	02/28/25 09:47	1
d5-NEtPFOSA	46.5		10 - 130				02/27/25 12:09	02/28/25 09:47	1
d3-NMePFOSA	43.8		10 - 130				02/27/25 12:09	02/28/25 09:47	1

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