

PFAS Nomenclature  
 GSU Monitoring Well Sampling Analytical Results  
 January 2021  
 Iosco County, Michigan  
 60612721

Chemical Name	Abbreviation	Cas Number
Perfluorobutanoic acid	PFBA	375-22-4
Perfluoropentanoic acid	PFPeA	2706-90-3
Perfluorohexanoic acid	PFHxA	307-24-4
Perfluoroheptanoic acid	PFHpA	375-85-9
Perfluorooctanoic acid	PFOA	335-67-1
Perfluorononanoic acid	PFNA	375-95-1
Perfluorodecanoic acid	PFDA	335-76-2
Perfluoroundecanoic acid	PFUnA	2058-94-8
Perfluorododecanoic acid	PFDoA	307-55-1
Perfluorotridecanoic acid	PFTrDA	72629-94-8
Perfluorotetradecanoic acid	PFTeDA	376-06-7
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid	9Cl-PF3ONS	756426-58-1
4,8-Dioxa-3H-perfluorononanoic acid	ADONA	919005-14-4
Perfluoro-2-propoxypropanoic acid	HFPO-DA	13252-13-6
Perfluorodecane sulfonic acid	PFDS	335-77-3
Perfluorobutane sulfonic acid	PFBS	375-73-5
Perfluoropentane sulfonic acid	PFPeS	2706-91-4
Perfluorohexane sulfonic acid	PFHxS	355-46-4
Perfluoroheptane sulfonic acid	PFHpS	375-92-8
Perfluorooctane sulfonic acid	PFOS	1763-23-1
Perfluorononane sulfonic acid	PFNS	68259-12-1
Perfluorooctanesulfonamide	PFOSA	754-91-6
4:2 Fluorotelomer sulfonic acid	4:2 FTS	757124-72-4
6:2 Fluorotelomer sulfonic acid	6:2 FTS	27619-97-2
8:2 Fluorotelomer sulfonic acid	8:2FTS	39108-34-4
N-Ethyl Perfluorooctane sulfonamido acetic acid	EtFOSAA	2991-50-6
N-Methyl Perfluorooctane sulfonamide	MeFOSAA	2355-31-9

	Perfluoroalkyl Carboxylic Acids ( <b>PFCAs</b> )
	Perfluoropolyether carboxylic acids ( <b>PFPE</b> )
	Perfluoroalkane Sulfonic Acids ( <b>PFSAs</b> )
	Perfluoroalkane Sulfonamides ( <b>FASAs</b> )
	Fluorotelomer Sulfonic Acids ( <b>FTSAs</b> )
	N-Ethyl Perfluoroalkane Sulfonamidoacetic Acids ( <b>EtFASAAs</b> )
	N-Methyl Perfluoroalkane Sulfonamidoacetic Acids ( <b>MeFASAAs</b> )

**GSU Quarterly Groundwater Sampling Analytical Results**  
**January 2021**  
**Iosco County, Michigan**

Location		DEQ-CR-MW002					
Well Screen Interval (bgs)		20 - 25 ft					
Sample		GW1910081420RAP	GW2001221050MK	GW2004151045RL	GW2007151105RL	GW2010281015RL	GW2101261405SK
Sample Date		10/8/2019	1/22/2020	4/15/2020	7/15/2020	10/28/2020	1/26/2021
Lab Report		1903623	2000165	2000899	2001522	2002372	2102039
Compound	Unit	Result	Result	Result	Result	Result	Result
PFBA	ng/l	< 2.11	2.39 J	1.62 J	2.84 J	1.95 J	2.99 J
PFPeA	ng/l	< 2.11	< 2.02	< 2.02	1.5 J	< 2.02	1.24 J
PFHxA	ng/l	< 2.11	< 2.02	2.97 J	1.8 J	1.62 J	2.36 J, Q
PFHpA	ng/l	< 2.11	3.03 J, Q	4.69 Q	2.07 J	1.09 J	4.09
PFOA	ng/l	2.12 J	7.31	7.65	4.37	2.52 J	5.32
PFNA	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.02	< 2.01
PFDA	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.02	< 2.01
PFUnDA	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.02	< 2.01
PFDoDA	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.02	< 2.01
PFTTrDA	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.02	< 2.01
PFTeDA	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.02	< 2.01
11CI-PF3OUdS	ng/l	---	< 2.02	< 2.02	< 2.15	< 2.02	< 2.01
9CI-PF3ONS	ng/l	---	< 2.02	< 2.02	< 2.15	< 2.02	< 2.01
ADONA	ng/l	---	< 2.02	< 2.02	< 2.15	< 2.02	< 2.01
HFPO-DA	ng/l	---	< 3.02	< 3.04	< 3.22	< 2.02	< 2.01
PFDS	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.02	< 2.01
PFBS	ng/l	< 2.11	1.93 J	< 2.02	< 2.15	2.16 J	2.11 J
PFPeS	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	3.77 J	1.66 J
PFHxS	ng/l	< 2.11	4.93	4.5	1.85 J	1.4 J	4.34
PFHpS	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.02	< 2.01
PFOS	ng/l	12.9	<b>41.5</b>	<b>43.9</b>	<b>25.4</b>	<b>26.8</b>	<b>36.5</b>
PFNS	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.02	< 2.01
FOSA	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.02	< 2.01
4:2 FTS	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.02	< 2.01
6:2 FTS	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.02	< 2.01
8:2 FTS	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.02	< 2.01
NEtFOSAA	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.02	< 2.01
NMeFOSAA	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.02	< 2.01
Total PFAS	ng/l	15.02	61.09	65.33	39.83	41.31	60.61

Footnotes:

1. bgs - Below ground surface
2. ft = feet
3. ND - Result below detection limit
4. ng/l - Nanograms per liter
5. < 2.05 - Result below detection limit
6. --- = Analyte not included in analysis.
6. BOLD - Analyte above detection
7. **Highlight** - Above EGLE Part 201 criteria: 6 ng/L PFNA, 8 ng/L PFOA, 16 ng/L PFOS, 51 ng/L PFHxS, 370 ng/L HFPO-DA, 420 ng/L PFBS, or 400,000 ng/L PFHxA
8. GRAY = Not Sampled

**GSU Quarterly Groundwater Sampling Analytical Results**  
**January 2021**  
**Iosco County, Michigan**

Location		DEQ-CR-MW003				DEQ-CR-MW005							
Well Screen Interval (bgs)		-				18 - 23 ft							
Sample Date													
Lab Report													
Compound	Unit	GW2010281545RL 10/28/2020		GW2101271510SK 1/27/2021		GW1910081505RAP 10/8/2019		GW2001221050RAP 1/22/2020		GW2004150840RL 4/15/2020			
		2002372		2102039		1903623		2000165		2000899			
		Result		Result		Result		Result		Result			
PFBA	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	< 2.05	< 2.05	< 2.05	< 2.05	< 2.03			
PFPeA	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	< 2.05	< 2.05	< 2.05	< 2.05	< 2.03			
PFHxA	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	< 2.05	< 2.05	< 2.05	< 2.05	< 2.03			
PFHpA	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	< 2.05	< 2.05	< 2.05	< 2.05	< 2.03			
PFOA	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	< 2.05	< 2.05	< 2.05	< 2.05	< 2.03			
PFNA	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	< 2.05	< 2.05	< 2.05	< 2.05	< 2.03			
PFDA	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	< 2.05	< 2.05	< 2.05	< 2.05	< 2.03			
PFUnDA	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	< 2.05	< 2.05	< 2.05	< 2.05	< 2.03			
PFDoDA	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	< 2.05	< 2.05	< 2.05	< 2.05	< 2.03			
PFTTrDA	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	< 2.05	< 2.05	< 2.05	< 2.05	< 2.03			
PFTeDA	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	< 2.05	< 2.05	< 2.05	< 2.05	< 2.03			
11CI-PF3OUdS	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	---	< 2.05	< 2.05	< 2.05	< 2.03			
9CI-PF3ONS	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	---	< 2.05	< 2.05	< 2.05	< 2.03			
ADONA	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	---	< 2.05	< 2.05	< 2.05	< 2.03			
HFPO-DA	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	---	< 3.07	< 3.07	< 3.07	< 3.05			
PFDS	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	< 2.05	< 2.05	< 2.05	< 2.05	< 2.03			
PFBS	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	< 2.05	< 2.05	< 2.05	< 2.05	< 2.03			
PFPeS	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	< 2.05	< 2.05	< 2.05	< 2.05	< 2.03			
PFHxS	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	< 2.05	< 2.05	< 2.05	< 2.05	< 2.03			
PFHpS	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	< 2.05	< 2.05	< 2.05	< 2.05	< 2.03			
PFOS	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	< 2.05	< 2.05	< 2.05	< 2.05	< 2.03			
PFNS	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	< 2.05	< 2.05	< 2.05	< 2.05	< 2.03			
FOSA	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	< 2.05	< 2.05	< 2.05	< 2.05	< 2.03			
4:2 FTS	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	< 2.05	< 2.05	< 2.05	< 2.05	< 2.03			
6:2 FTS	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	< 2.05	< 2.05	< 2.05	< 2.05	< 2.03			
8:2 FTS	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	< 2.05	< 2.05	< 2.05	< 2.05	< 2.03			
NEtFOSAA	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	< 2.05	< 2.05	< 2.05	< 2.05	2.24 J			
NMeFOSAA	ng/l	< 2.01	< 2.01	< 2.01	< 2.01	< 2.05	< 2.05	< 2.05	< 2.05	< 2.03			
Total PFAS	ng/l	ND	ND	ND	ND	ND	ND	ND	ND	2.24			

Footnotes:

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4. ng/l - Nanograms per liter
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6. BOLD - Analyte above detection
7. **Highlight** - Above EGLE Part 201 criteria: 6 ng/L PFNA, 8 ng/L PFOA, 16 ng/L PFOS, 51 ng/L PFHxS, 370 ng/L HFPO-DA, 420 ng/L PFBS, or 400,000 ng/L PFHxA
8. GRAY = Not Sampled

**GSU Quarterly Groundwater Sampling Analytical Results**  
**January 2021**  
**Iosco County, Michigan**

Location		DEQ-CR-MW006						
Well Screen Interval (bgs)		20 - 25 ft						
Sample		GW1910081555RAP	GW2001220950MK	GW2004150945RL	GW2007151005RL	GW2007151005RL-FD	GW2010280930RL	GW2101291030SK
Sample Date		10/8/2019	1/22/2020	4/15/2020	7/15/2020	7/15/2020	10/28/2020	1/29/2021
Lab Report		1903623	2000165	2000899	2001522	2001522	2002372	2102040
Compound	Unit	Result	Result	Result	Result	Result	Result	Result
PFBA	ng/l	2.22 J	2.71 J	3.17 J	2.46 J	2.13 J	1.45 J	2.28 J
PFPeA	ng/l	2.29 J	< 1.99	< 1.99	< 2.07	< 1.92	1.23 J	1.53 J
PFHxA	ng/l	3.03 J	< 1.99	< 1.99	< 2.07	< 1.92	1.21 J	2.51 J, Q
PFHpA	ng/l	1.52 J, Q	< 1.99	< 1.99	< 2.07	< 1.92	< 1.99	2.38 J
PFOA	ng/l	5.64	3.85 J	5.57	3.44 J	3.19 J	3.85 J	8.07
PFNA	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 1.99	< 2.02
PFDA	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 1.99	< 2.02
PFUnDA	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 1.99	< 2.02
PFDoDA	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 1.99	< 2.02
PFTTrDA	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 1.99	< 2.02
PFTeDA	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 1.99	< 2.02
11CI-PF3OUdS	ng/l	---	< 1.99	< 1.99	< 2.07	< 1.92	< 1.99	< 2.02
9CI-PF3ONS	ng/l	---	< 1.99	< 1.99	< 2.07	< 1.92	< 1.99	< 2.02
ADONA	ng/l	---	< 1.99	< 1.99	< 2.07	< 1.92	< 1.99	< 2.02
HFPO-DA	ng/l	---	< 2.99	< 2.99	< 3.11	< 2.87	< 1.99	< 2.02
PFDS	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 1.99	< 2.02
PFBS	ng/l	< 2.05	1.66 J	1.94 J	< 2.07	< 1.92	< 1.99	2.19 J
PFPeS	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 1.99	< 2.02
PFHxS	ng/l	15.6	12.4	7.55	6.92	6.49	11	21.1
PFHpS	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 1.99	< 2.02
PFOS	ng/l	6.08 Q	7.27	3.79 J	5.96	6.31	9.89	10.9
PFNS	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 1.99	< 2.02
FOSA	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 1.99	< 2.02
4:2 FTS	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 1.99	< 2.02
6:2 FTS	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 1.99	< 2.02
8:2 FTS	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 1.99	< 2.02
NEtFOSAA	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 1.99	< 2.02
NMeFOSAA	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 1.99	< 2.02
Total PFAS	ng/l	36.38	27.89	22.02	18.78	18.12	28.63	50.96

Footnotes:

1. bgs - Below ground surface
2. ft = feet
3. ND - Result below detection limit
4. ng/l - Nanograms per liter
5. < 2.05 - Result below detection limit
6. --- = Analyte not included in analysis.
6. BOLD - Analyte above detection
7. **Highlight** - Above EGLE Part 201 criteria: 6 ng/L PFNA, 8 ng/L PFOA, 16 ng/L PFOS, 51 ng/L PFHxS, 370 ng/L HFPO-DA, 420 ng/L PFBS, or 400,000 ng/L PFHxA
8. GRAY = Not Sampled

**GSU Quarterly Groundwater Sampling Analytical Results  
January 2021  
Iosco County, Michigan**

Location		DEQ-LD-MW001				
Well Screen Interval (bgs)		10 - 15 ft				
Sample		GW1910091100RAP	GW2001221215RAP	GW2004151505RL	GW2007151325RL	GW2010281300RL
Sample Date		10/9/2019	1/22/2020	4/15/2020	7/15/2020	10/28/2020
Lab Report		1903623	2000165	2000899	2001522	2002372
Compound	Unit	Result	Result	Result	Result	Result
PFBA	ng/l	5.93	1.67 J	< 2.04	1.79 J	1.27 J
PFPeA	ng/l	4.55	< 2.06	< 2.04	< 1.98	< 1.95
PFHxA	ng/l	6.81	1.66 J	< 2.04	< 1.98	< 1.95
PFHpA	ng/l	2.33 J, Q	< 2.06	< 2.04	< 1.98	< 1.95
PFOA	ng/l	3.44 J	3.12 J	2.56 J	3.24 J	2.03 J
PFNA	ng/l	< 2.07	< 2.06	< 2.04	< 1.98	< 1.95
PFDA	ng/l	< 2.07	< 2.06	< 2.04	< 1.98	< 1.95
PFUnDA	ng/l	< 2.07	< 2.06	< 2.04	< 1.98	< 1.95
PFDoDA	ng/l	< 2.07	< 2.06	< 2.04	< 1.98	< 1.95
PFTTrDA	ng/l	< 2.07	< 2.06	< 2.04	< 1.98	< 1.95
PFTeDA	ng/l	< 2.07	< 2.06	< 2.04	< 1.98	< 1.95
11CI-PF3OUdS	ng/l	---	< 2.06	< 2.04	< 1.98	< 1.95
9CI-PF3ONS	ng/l	---	< 2.06	< 2.04	< 1.98	< 1.95
ADONA	ng/l	---	< 2.06	< 2.04	< 1.98	< 1.95
HFPO-DA	ng/l	---	< 3.09	< 3.06	< 2.96	< 1.95
PFDS	ng/l	< 2.07	< 2.06	< 2.04	< 1.98	< 1.95
PFBS	ng/l	3.32 J	2.36 J	2.23 J	2.63 J	2.23 J
PFPeS	ng/l	< 2.07	< 2.06	< 2.04	< 1.98	< 1.95
PFHxS	ng/l	3.33 J	1.82 J	1.71 J	3.53 J	3.33 J
PFHpS	ng/l	< 2.07	< 2.06	< 2.04	< 1.98	< 1.95
PFOS	ng/l	2.05 J, Q	2.66 J	< 2.04	2.26 J	2.76 J
PFNS	ng/l	< 2.07	< 2.06	< 2.04	< 1.98	< 1.95
FOSA	ng/l	< 2.07	< 2.06	< 2.04	< 1.98	< 1.95
4:2 FTS	ng/l	< 2.07	< 2.06	< 2.04	< 1.98	< 1.95
6:2 FTS	ng/l	< 2.07	< 2.06	< 2.04	< 1.98	< 1.95
8:2 FTS	ng/l	< 2.07	< 2.06	< 2.04	< 1.98	< 1.95
NEtFOSAA	ng/l	< 2.07	< 2.06	< 2.04	< 1.98	< 1.95
NMeFOSAA	ng/l	< 2.07	< 2.06	< 2.04	< 1.98	< 1.95
Total PFAS	ng/l	31.76	13.29	6.5	13.45	11.62

Jan 2021

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3. ND - Result below detection limit
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5. < 2.05 - Result below detection limit
6. --- = Analyte not included in analysis.
6. BOLD - Analyte above detection
7. **Highlight** - Above EGLE Part 201 criteria: 6 ng/L PFNA, 8 ng/L PFOA, 16 ng/L PFOS, 51 ng/L PFHxS, 370 ng/L HFPO-DA, 420 ng/L PFBS, or 400,000 ng/L PFHxA
8. GRAY = Not Sampled

**GSU Quarterly Groundwater Sampling Analytical Results**  
**January 2021**  
**Iosco County, Michigan**

Location		DEQ-LD-MW003							
Well Screen Interval (bgs)		10 - 15 ft							
Sample		GW1910091215RAP	GW2001221350RAP	GW2004151350RL	FD2004151350RL	GW2007151240RL	GW2010281145RL	FD2010281145RL	GW2101290915SK
Sample Date		10/9/2019	1/22/2020	4/15/2020	4/15/2020	7/15/2020	10/28/2020	10/28/2020	1/29/2021
Lab Report		1903623	2000165	2000899	2000899	2001522	2002372	2002372	2102040
Compound	Unit	Result	Result	Result	Result	Result	Result	Result	Result
PFBA	ng/l	< 2.17	3.43 J	2.83 J	3.02 J	3.45 J	4.41	4.81	2.77 J
PFPeA	ng/l	1.7 J	6.97	4.5	5.25	7.06	16.9	16.6	7.95
PFHxA	ng/l	2.56 J	7.95	4.96	4.59 Q	6.63	14.7	15.9	9.27
PFHpA	ng/l	< 2.17	2.22 J	1.72 J, Q	1.58 J, Q	< 2.07	4.37	4.55	2.99 J
PFOA	ng/l	2.57 J	6.25	4.09	4.68	4.4	11	10.2	10.5
PFNA	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.04	< 1.99	< 2.07
PFDA	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.04	< 1.99	< 2.07
PFUnDA	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.04	< 1.99	< 2.07
PFDoDA	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.04	< 1.99	< 2.07
PFTTrDA	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.04	< 1.99	< 2.07
PFTeDA	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.04	< 1.99	< 2.07
11CI-PF3OUdS	ng/l	---	< 2.01	< 2.02	< 2.02	< 2.07	< 2.04	< 1.99	< 2.07
9CI-PF3ONS	ng/l	---	< 2.01	< 2.02	< 2.02	< 2.07	< 2.04	< 1.99	< 2.07
ADONA	ng/l	---	< 2.01	< 2.02	< 2.02	< 2.07	< 2.04	< 1.99	< 2.07
HFPO-DA	ng/l	---	< 3.01	< 3.02	< 3.02	< 3.10	< 2.04	< 1.99	< 2.07
PFDS	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.04	< 1.99	< 2.07
PFBS	ng/l	1.66 J	2.73 J	2.3 J	2.64 J, Q	3.29 J	4.45	5.1	4.36
PFPeS	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.04	< 1.99	< 2.07
PFHxS	ng/l	< 2.17	2.36 J	1.4 J	1.57 J	2.23 J	3.91 J	3.83 J	3.96 J
PFHpS	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.04	< 1.99	< 2.07
PFOS	ng/l	< 2.17	2.6 J	< 2.02	< 2.02	< 2.07	2.34 J	2.38 J	2.74 J
PFNS	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.04	< 1.99	< 2.07
FOSA	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.04	< 1.99	< 2.07
4:2 FTS	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.04	< 1.99	< 2.07
6:2 FTS	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.04	< 1.99	< 2.07
8:2 FTS	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.04	< 1.99	< 2.07
NEtFOSAA	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.04	< 1.99	< 2.07
NMeFOSAA	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.04	< 1.99	< 2.07
Total PFAS	ng/l	8.49	34.51	21.8	23.33	27.06	62.08	63.37	44.54

Footnotes:

1. bgs - Below ground surface
2. ft = feet
3. ND - Result below detection limit
4. ng/l - Nanograms per liter
5. < 2.05 - Result below detection limit
6. --- = Analyte not included in analysis.
6. BOLD - Analyte above detection
7. **Highlight** - Above EGLE Part 201 criteria: 6 ng/L PFNA, 8 ng/L PFOA, 16 ng/L PFOS, 51 ng/L PFHxS, 370 ng/L HFPO-DA, 420 ng/L PFBS, or 400,000 ng/L PFHxA
8. GRAY = Not Sampled

**GSU Quarterly Groundwater Sampling Analytical Results**  
**January 2021**  
**Iosco County, Michigan**

Location		DEQ-LD-MW005			
Well Screen Interval (bgs)		5 - 10 ft			
Sample		GW1910081710RAP	GW2001221650RAP	GW2004151605RL	GW2101281055SK
Sample Date		10/8/2019	1/22/2020	4/15/2020	1/28/2021
Lab Report		1903623	2000166	2000906	2102039
Compound	Unit	Result	Result	Result	Result
PFBA	ng/l	14.5	13.1	11.9	9.62
PFPeA	ng/l	< 2.16	< 2.01	< 2.02	2.4 J
PFHxA	ng/l	< 2.16	< 2.01	< 2.02	1.53 J
PFHpA	ng/l	< 2.16	< 2.01	< 2.02	< 2.01
PFOA	ng/l	2.77 J	2.6 J	2.78 J	3.03 J
PFNA	ng/l	< 2.16	< 2.01	< 2.02	< 2.01
PFDA	ng/l	< 2.16	< 2.01	< 2.02	< 2.01
PFUnDA	ng/l	< 2.16	< 2.01	< 2.02	< 2.01
PFDoDA	ng/l	< 2.16	< 2.01	< 2.02	< 2.01
PFTTrDA	ng/l	< 2.16	< 2.01	< 2.02	< 2.01
PFTeDA	ng/l	< 2.16	< 2.01	< 2.02	< 2.01
11CI-PF3OUdS	ng/l	---	< 2.01	< 2.02	< 2.01
9CI-PF3ONS	ng/l	---	< 2.01	< 2.02	< 2.01
ADONA	ng/l	---	< 2.01	< 2.02	< 2.01
HFPO-DA	ng/l	---	< 3.01	< 3.04	< 2.01
PFDS	ng/l	< 2.16	< 2.01	< 2.02	< 2.01
PFBS	ng/l	9.29	7.79	10.3	7.65
PFPeS	ng/l	< 2.16	< 2.01	< 2.02	< 2.01
PFHxS	ng/l	4.96	9.49	6.28	8.97
PFHpS	ng/l	< 2.16	< 2.01	< 2.02	< 2.01
PFOS	ng/l	3.1 J, Q	3.08 J	2.51 J	6.03
PFNS	ng/l	< 2.16	< 2.01	< 2.02	< 2.01
FOSA	ng/l	< 2.16	< 2.01	< 2.02	< 2.01
4:2 FTS	ng/l	< 2.16	< 2.01	< 2.02	< 2.01
6:2 FTS	ng/l	< 2.16	< 2.01	< 2.02	< 2.01
8:2 FTS	ng/l	< 2.16	< 2.01	< 2.02	< 2.01
NEtFOSAA	ng/l	< 2.16	< 2.01	< 2.02	< 2.01
NMeFOSAA	ng/l	< 2.16	< 2.01	< 2.02	< 2.01
Total PFAS	ng/l	34.62	36.06	33.77	39.23

Jul 2020    Oct 2020

**Footnotes:**

1. bgs - Below ground surface
2. ft = feet
3. ND - Result below detection limit
4. ng/l - Nanograms per liter
5. < 2.05 - Result below detection limit
6. --- = Analyte not included in analysis.
6. BOLD - Analyte above detection
7. **Highlight** - Above EGLE Part 201 criteria: 6 ng/L PFNA, 8 ng/L PFOA, 16 ng/L PFOS, 51 ng/L PFHxS, 370 ng/L HFPO-DA, 420 ng/L PFBS, or 400,000 ng/L PFHxA
8. GRAY = Not Sampled

**GSU Quarterly Groundwater Sampling Analytical Results**  
**January 2021**  
**Iosco County, Michigan**

Location		DEQ-RR-MW003			
Well Screen Interval (bgs)		12 - 17 ft			
Sample		GW1910081440GSC	GW2001231315MK	GW2004141105GSC	GW2010291015RL
Sample Date		10/8/2019	1/23/2020	4/14/2020	10/29/2020
Lab Report		1903623	2000166	2000899	2002372
Compound	Unit	Result	Result	Result	Result
PFBA	ng/l	2.09 J	2.38 J	< 1.99	< 2.03
PFPeA	ng/l	< 2.02	< 2.02	< 1.99	< 2.03
PFHxA	ng/l	< 2.02	< 2.02	< 1.99	< 2.03
PFHpA	ng/l	< 2.02	< 2.02	< 1.99	< 2.03
PFOA	ng/l	< 2.02	< 2.02	< 1.99	< 2.03
PFNA	ng/l	< 2.02	< 2.02	< 1.99	< 2.03
PFDA	ng/l	< 2.02	< 2.02	< 1.99	< 2.03
PFUnDA	ng/l	< 2.02	< 2.02	< 1.99	< 2.03
PFDoDA	ng/l	< 2.02	< 2.02	< 1.99	< 2.03
PFTTrDA	ng/l	< 2.02	< 2.02	< 1.99	< 2.03
PFTeDA	ng/l	< 2.02	< 2.02	< 1.99	< 2.03
11CI-PF3OUdS	ng/l	---	< 2.02	< 1.99	< 2.03
9CI-PF3ONS	ng/l	---	< 2.02	< 1.99	< 2.03
ADONA	ng/l	---	< 2.02	< 1.99	< 2.03
HFPO-DA	ng/l	---	< 3.02	< 2.99	< 2.03
PFDS	ng/l	< 2.02	< 2.02	< 1.99	< 2.03
PFBS	ng/l	47.6	8.68	< 1.99	2.33 J
PFPeS	ng/l	< 2.02	< 2.02	< 1.99	< 2.03
PFHxS	ng/l	< 2.02	< 2.02	< 1.99	< 2.03
PFHpS	ng/l	< 2.02	< 2.02	< 1.99	< 2.03
PFOS	ng/l	< 2.02	1.87 J	< 1.99	< 2.03
PFNS	ng/l	< 2.02	< 2.02	< 1.99	< 2.03
FOSA	ng/l	< 2.02	< 2.02	< 1.99	< 2.03
4:2 FTS	ng/l	< 2.02	< 2.02	< 1.99	< 2.03
6:2 FTS	ng/l	< 2.02	< 2.02	< 1.99	< 2.03
8:2 FTS	ng/l	< 2.02	< 2.02	< 1.99	< 2.03
NEtFOSAA	ng/l	< 2.02	< 2.02	< 1.99	< 2.03
NMeFOSAA	ng/l	< 2.02	< 2.02	< 1.99	< 2.03
Total PFAS	ng/l	49.69	12.93	ND	2.33

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**Footnotes:**

1. bgs - Below ground surface
2. ft = feet
3. ND - Result below detection limit
4. ng/l - Nanograms per liter
5. < 2.05 - Result below detection limit
6. --- = Analyte not included in analysis.
6. BOLD - Analyte above detection
7. **Highlight** - Above EGLE Part 201 criteria: 6 ng/L PFNA, 8 ng/L PFOA, 16 ng/L PFOS, 51 ng/L PFHxS, 370 ng/L HFPO-DA, 420 ng/L PFBS, or 400,000 ng/L PFHxA
8. GRAY = Not Sampled



**GSU Quarterly Groundwater Sampling Analytical Results**  
**January 2021**  
**Iosco County, Michigan**

Location		DEQ-RR-MW004					
Well Screen Interval (bgs)		17 - 22 ft					
Sample		GW1910090950GSC	GW2001231225MK	GW2004141140GSC	GW2007151245GSC	GW2010290855RL	GW2101261445GSC
Sample Date		10/9/2019	1/23/2020	4/14/2020	7/15/2020	10/29/2020	1/26/2021
Lab Report		1903623	2000166	2000899	2001522	2002372	2102039
Compound	Unit	Result	Result	Result	Result	Result	Result
PFBA	ng/l	1.49 J	9.59	6.1	4.05	19.4	11.2
PFPeA	ng/l	< 2.09	2.66 J	3.07 J	1.82 J	8.33	1.32 J
PFHxA	ng/l	< 2.09	1.91 J	1.67 J, Q	< 2.01	8.03	< 1.94
PFHpA	ng/l	< 2.09	1.41 J	< 2.03	< 2.01	2.26 J	< 1.94
PFOA	ng/l	< 2.09	3.96 J	2.88 J	2 J	2.84 J	1.28 J
PFNA	ng/l	< 2.09	< 2.02	< 2.03	< 2.01	< 2.17	< 1.94
PFDA	ng/l	< 2.09	< 2.02	< 2.03	< 2.01	< 2.17	< 1.94
PFUnDA	ng/l	< 2.09	< 2.02	< 2.03	< 2.01	< 2.17	< 1.94
PFDoDA	ng/l	< 2.09	< 2.02	< 2.03	< 2.01	< 2.17	< 1.94
PFTTrDA	ng/l	< 2.09	< 2.02	< 2.03	< 2.01	< 2.17	< 1.94
PFTeDA	ng/l	< 2.09	< 2.02	< 2.03	< 2.01	< 2.17	< 1.94
11CI-PF3OUdS	ng/l	---	< 2.02	< 2.03	< 2.01	< 2.17	< 1.94
9CI-PF3ONS	ng/l	---	< 2.02	< 2.03	< 2.01	< 2.17	< 1.94
ADONA	ng/l	---	< 2.02	< 2.03	< 2.01	< 2.17	< 1.94
HFPO-DA	ng/l	---	< 3.02	< 3.05	< 3.01	< 2.17	< 1.94
PFDS	ng/l	< 2.09	< 2.02	< 2.03	< 2.01	< 2.17	< 1.94
PFBS	ng/l	99.1	103	399	611	194	85.7
PFPeS	ng/l	< 2.09	< 2.02	< 2.03	< 2.01	< 2.17	< 1.94
PFHxS	ng/l	< 2.09	2.87 J	1.69 J	< 2.01	4.07 J	2.93 J
PFHpS	ng/l	< 2.09	< 2.02	< 2.03	< 2.01	< 2.17	< 1.94
PFOS	ng/l	11	<b>18.9</b>	<b>27.5</b>	9.86	15.4	15.9
PFNS	ng/l	< 2.09	< 2.02	< 2.03	< 2.01	< 2.17	< 1.94
FOSA	ng/l	< 2.09	< 2.02	< 2.03	< 2.01	< 2.17	< 1.94
4:2 FTS	ng/l	< 2.09	< 2.02	< 2.03	< 2.01	< 2.17	< 1.94
6:2 FTS	ng/l	< 2.09	< 2.02	< 2.03	< 2.01	< 2.17	< 1.94
8:2 FTS	ng/l	< 2.09	< 2.02	< 2.03	< 2.01	< 2.17	< 1.94
NEtFOSAA	ng/l	< 2.09	< 2.02	< 2.03	< 2.01	< 2.17	< 1.94
NMeFOSAA	ng/l	< 2.09	< 2.02	< 2.03	< 2.01	< 2.17	< 1.94
Total PFAS	ng/l	111.59	144.3	441.91	628.73	254.33	118.33

Footnotes:

1. bgs - Below ground surface
2. ft = feet
3. ND - Result below detection limit
4. ng/l - Nanograms per liter
5. < 2.05 - Result below detection limit
6. --- = Analyte not included in analysis.
6. BOLD - Analyte above detection
7. **Highlight** - Above EGLE Part 201 criteria: 6 ng/L PFNA, 8 ng/L PFOA, 16 ng/L PFOS, 51 ng/L PFHxS, 370 ng/L HFPO-DA, 420 ng/L PFBS, or 400,000 ng/L PFHxA
8. GRAY = Not Sampled

**GSU Quarterly Groundwater Sampling Analytical Results**  
**January 2021**  
**Iosco County, Michigan**

Location		DEQ-RR-MW005					
Well Screen Interval (bgs)		13 - 18 ft					
Sample		GW1910081530GSC	GW2001231425MK	GW2004141340GSC	GW2007151140GSC	GW2010291120RL	GW2101261545GSC
Sample Date		10/8/2019	1/23/2020	4/14/2020	7/15/2020	10/29/2020	1/26/2021
Lab Report		1903623	2000166	2000899	2001522	2002372	2102039
Compound	Unit	Result	Result	Result	Result	Result	Result
PFBA	ng/l	23.5	7.92	24.1	174	39.8	8.78
PFPeA	ng/l	22.6	13.1	14.7	502	110	23.6
PFHxA	ng/l	13.7	9.27	10.6	215	64	14.1
PFHpA	ng/l	1.62 J	1.99 J, Q	1.93 J, Q	18.7	2.74 J	< 2.02
PFOA	ng/l	4.36	8.96	5.17	33.7	6.95	3.49 J
PFNA	ng/l	< 2.03	< 2.12	< 1.97	6.13	< 2.02	< 2.02
PFDA	ng/l	< 2.03	< 2.12	< 1.97	6.86	1.76 J	2.4 J
PFUnDA	ng/l	< 2.03	< 2.12	< 1.97	< 2.10	< 2.02	< 2.02
PFDoDA	ng/l	< 2.03	< 2.12	< 1.97	< 2.10	< 2.02	< 2.02
PFTTrDA	ng/l	< 2.03	< 2.12	< 1.97	< 2.10	< 2.02	< 2.02
PFTeDA	ng/l	< 2.03	< 2.12	< 1.97	< 2.10	< 2.02	< 2.02
11CI-PF3OUdS	ng/l	---	< 2.12	< 1.97	< 2.10	< 2.02	< 2.02
9CI-PF3ONS	ng/l	---	< 2.12	< 1.97	< 2.10	< 2.02	< 2.02
ADONA	ng/l	---	< 2.12	< 1.97	< 2.10	< 2.02	< 2.02
HFPO-DA	ng/l	---	< 3.18	< 2.95	< 3.15	< 2.02	< 2.02
PFDS	ng/l	3.16 J	4.32	4.87	11.2 Q	6.18	15.4
PFBS	ng/l	328	93.7	357	819	219	103
PFPeS	ng/l	< 2.03	< 2.12	< 1.97	< 2.10	< 2.02	< 2.02
PFHxS	ng/l	1.98 J	< 2.12	< 1.97	2.14 J	< 2.02	< 2.02
PFHpS	ng/l	< 2.03	< 2.12	< 1.97	< 2.10	< 2.02	< 2.02
PFOS	ng/l	39.7	46.5	21.3	150	46.2	23.4
PFNS	ng/l	< 2.03	< 2.12	< 1.97	< 2.10	< 2.02	< 2.02
FOSA	ng/l	24	12.6	17.1	30.1	38	77.2
4:2 FTS	ng/l	< 2.03	< 2.12	< 1.97	< 2.10	< 2.02	< 2.02
6:2 FTS	ng/l	< 2.03	< 2.12	< 1.97	4.93	< 2.02	< 2.02
8:2 FTS	ng/l	< 2.03	< 2.12	< 1.97	< 2.10	< 2.02	< 2.02
NEtFOSAA	ng/l	< 2.03	3.48 J	5.94	7.63	1.49 J	8.23
NMeFOSAA	ng/l	< 2.03	< 2.12	< 1.97	< 2.10	< 2.02	< 2.02
Total PFAS	ng/l	462.62	201.84	462.71	1981.39	536.12	279.6

Footnotes:

1. bgs - Below ground surface
2. ft = feet
3. ND - Result below detection limit
4. ng/l - Nanograms per liter
5. < 2.05 - Result below detection limit
6. --- = Analyte not included in analysis.
6. BOLD - Analyte above detection
7. Highlight - Above EGLE Part 201 criteria: 6 ng/L PFNA, 8 ng/L PFOA, 16 ng/L PFOS, 51 ng/L PFHxS, 370 ng/L HFPO-DA, 420 ng/L PFBS, or 400,000 ng/L PFHxA
8. GRAY = Not Sampled

**GSU Quarterly Groundwater Sampling Analytical Results**  
**January 2021**  
**Iosco County, Michigan**

Location		DEQ-RR-MW006					
Well Screen Interval (bgs)		11 - 16 ft					
Sample		GW1910091040GSC	GW2001231110MK	GW2004141240GSC	GW2007151210GSC		
Sample Date		10/9/2019	1/23/2020	4/14/2020	7/15/2020		
Lab Report		1903623	2000166	2000899	2001522		
Compound	Unit	Result	Result	Result	Result		
PFBA	ng/l	3.43 J	2.2 J	< 2.06	< 2.07		
PFPeA	ng/l	3.36 J	2.73 J	< 2.06	< 2.07		
PFHxA	ng/l	3.1 J	2.52 J	< 2.06	< 2.07		
PFHpA	ng/l	< 2.05	< 2.00	< 2.06	< 2.07		
PFOA	ng/l	1.57 J	1.4 J	< 2.06	< 2.07		
PFNA	ng/l	< 2.05	< 2.00	< 2.06	< 2.07		
PFDA	ng/l	< 2.05	< 2.00	< 2.06	< 2.07		
PFUnDA	ng/l	< 2.05	< 2.00	< 2.06	< 2.07		
PFDoDA	ng/l	< 2.05	< 2.00	< 2.06	< 2.07		
PFTTrDA	ng/l	< 2.05	< 2.00	< 2.06	< 2.07		
PFTeDA	ng/l	< 2.05	< 2.00	< 2.06	< 2.07		
11CI-PF3OUdS	ng/l	---	< 2.00	< 2.06	< 2.07		
9CI-PF3ONS	ng/l	---	< 2.00	< 2.06	< 2.07		
ADONA	ng/l	---	< 2.00	< 2.06	< 2.07		
HFPO-DA	ng/l	---	< 3.00	< 3.09	< 3.11		
PFDS	ng/l	< 2.05	< 2.00	< 2.06	< 2.07		
PFBS	ng/l	< 2.05	< 2.00	< 2.06	< 2.07		
PFPeS	ng/l	< 2.05	< 2.00	< 2.06	< 2.07		
PFHxS	ng/l	1.79 J	2.03 J	< 2.06	1.75 J		
PFHpS	ng/l	< 2.05	< 2.00	< 2.06	< 2.07		
PFOS	ng/l	6	8.72	3.36 J	< 2.07		
PFNS	ng/l	< 2.05	< 2.00	< 2.06	< 2.07		
FOSA	ng/l	< 2.05	< 2.00	< 2.06	< 2.07		
4:2 FTS	ng/l	< 2.05	< 2.00	< 2.06	< 2.07		
6:2 FTS	ng/l	< 2.05	< 2.00	< 2.06	< 2.07		
8:2 FTS	ng/l	< 2.05	< 2.00	< 2.06	< 2.07		
NEtFOSAA	ng/l	< 2.05	< 2.00	< 2.06	< 2.07		
NMeFOSAA	ng/l	< 2.05	< 2.00	< 2.06	< 2.07		
Total PFAS	ng/l	19.25	19.6	3.36	1.75		

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**Footnotes:**

1. bgs - Below ground surface
2. ft = feet
3. ND - Result below detection limit
4. ng/l - Nanograms per liter
5. < 2.05 - Result below detection limit
6. --- = Analyte not included in analysis.
6. BOLD - Analyte above detection
7. **Highlight** - Above EGLE Part 201 criteria: 6 ng/L PFNA, 8 ng/L PFOA, 16 ng/L PFOS, 51 ng/L PFHxS, 370 ng/L HFPO-DA, 420 ng/L PFBS, or 400,000 ng/L PFHxA
8. GRAY = Not Sampled

**GSU Quarterly Groundwater Sampling Analytical Results**  
**January 2021**  
**Iosco County, Michigan**

Location		DEQ-RR-MW007				
Well Screen Interval (bgs)		10 - 15 ft				
Sample		GW1910081655GSC	GW2001231000MK	GW2004141420GSC	GW2007151005GSC	GW2101261635GSC
Sample Date		10/8/2019	1/23/2020	4/14/2020	7/15/2020	1/26/2021
Lab Report		1903623	2000166	2000899	2001522	2102039
Compound	Unit	Result	Result	Result	Result	Result
PFBA	ng/l	1.66 J	2.48 J	< 1.95	< 2.01	1.07 J
PFPeA	ng/l	< 2.12	< 2.11	< 1.95	< 2.01	< 2.03
PFHxA	ng/l	< 2.12	< 2.11	< 1.95	< 2.01	< 2.03
PFHpA	ng/l	< 2.12	< 2.11	1.77 J	< 2.01	< 2.03
PFOA	ng/l	5.65	6.7	6.73	4.18	8.15
PFNA	ng/l	< 2.12	< 2.11	< 1.95	< 2.01	< 2.03
PFDA	ng/l	< 2.12	< 2.11	< 1.95	< 2.01	< 2.03
PFUnDA	ng/l	< 2.12	< 2.11	< 1.95	< 2.01	< 2.03
PFDoDA	ng/l	< 2.12	< 2.11	< 1.95	< 2.01	< 2.03
PFTTrDA	ng/l	< 2.12	< 2.11	< 1.95	< 2.01	< 2.03
PFTeDA	ng/l	< 2.12	< 2.11	< 1.95	< 2.01	< 2.03
11CI-PF3OUdS	ng/l	---	< 2.11	< 1.95	< 2.01	< 2.03
9CI-PF3ONS	ng/l	---	< 2.11	< 1.95	< 2.01	< 2.03
ADONA	ng/l	---	< 2.11	< 1.95	< 2.01	< 2.03
HFPO-DA	ng/l	---	< 3.16	< 2.93	< 3.01	< 2.03
PFDS	ng/l	< 2.12	< 2.11	< 1.95	< 2.01	< 2.03
PFBS	ng/l	< 2.12	< 2.11	< 1.95	< 2.01	< 2.03
PFPeS	ng/l	< 2.12	< 2.11	< 1.95	< 2.01	< 2.03
PFHxS	ng/l	1.64 J	3.36 J	3.42 J	1.87 J	3.59 J
PFHpS	ng/l	< 2.12	< 2.11	< 1.95	< 2.01	< 2.03
PFOS	ng/l	41.4	35.9	57.9	39.7	31.7
PFNS	ng/l	< 2.12	< 2.11	< 1.95	< 2.01	< 2.03
FOSA	ng/l	< 2.12	< 2.11	< 1.95	< 2.01	< 2.03
4:2 FTS	ng/l	< 2.12	< 2.11	< 1.95	< 2.01	< 2.03
6:2 FTS	ng/l	< 2.12	< 2.11	< 1.95	< 2.01	< 2.03
8:2 FTS	ng/l	< 2.12	< 2.11	< 1.95	< 2.01	< 2.03
NEtFOSAA	ng/l	< 2.12	< 2.11	< 1.95	< 2.01	< 2.03
NMeFOSAA	ng/l	< 2.12	< 2.11	< 1.95	< 2.01	< 2.03
Total PFAS	ng/l	50.35	48.44	69.82	45.75	44.51

Oct  
2020

**Footnotes:**

1. bgs - Below ground surface
2. ft = feet
3. ND - Result below detection limit
4. ng/l - Nanograms per liter
5. < 2.05 - Result below detection limit
6. --- = Analyte not included in analysis.
6. BOLD - Analyte above detection
7. **Highlight** - Above EGLE Part 201 criteria: 6 ng/L PFNA, 8 ng/L PFOA, 16 ng/L PFOS, 51 ng/L PFHxS, 370 ng/L HFPO-DA, 420 ng/L PFBS, or 400,000 ng/L PFHxA
8. GRAY = Not Sampled

**GSU Quarterly Groundwater Sampling Analytical Results**  
**January 2021**  
**Iosco County, Michigan**

Location		DEQ-RR-MW008				RI-MW001							
Well Screen Interval (bgs)		8 - 13 ft				3 - 8 ft							
Sample		GW1910081610GSC	GW2001231455RAP	GW2004141505GSC	GW2007151055GSC								
Sample Date		10/8/2019	1/23/2020	4/14/2020	7/15/2020					GW2010281655RL	GW2101261525SK		
Lab Report		1903623	2000166	2000899	2001522					2002372	2102039		
Compound	Unit	Result	Result	Result	Result					Result	Result		
PFBA	ng/l	9.53	3.3 J	4.2	3.4 J					7.5	3.95 J		
PFPeA	ng/l	41.1	16.1	12.1	10.1					6.43	< 2.03		
PFHxA	ng/l	23.3	10.6	12.5	11.1					6.42	1.73 J		
PFHpA	ng/l	4.93	2.02 J, Q	3.59 J	< 2.04					7.14	1.68 J		
PFOA	ng/l	<b>16.8</b>	<b>16</b>	<b>13.9</b>	<b>10.1</b>					<b>8.43</b>	4.33		
PFNA	ng/l	< 2.16	< 2.05	< 1.98	< 2.04					< 2.02	< 2.03		
PFDA	ng/l	< 2.16	< 2.05	< 1.98	< 2.04					< 2.02	< 2.03		
PFUnDA	ng/l	< 2.16	< 2.05	< 1.98	< 2.04					< 2.02	< 2.03		
PFDoDA	ng/l	< 2.16	< 2.05	< 1.98	< 2.04					< 2.02	< 2.03		
PFTTrDA	ng/l	< 2.16	< 2.05	< 1.98	< 2.04					< 2.02	< 2.03		
PFTeDA	ng/l	< 2.16	< 2.05	< 1.98	< 2.04					< 2.02	< 2.03		
11CI-PF3OUdS	ng/l	---	< 2.05	< 1.98	< 2.04	Oct 2020	Jan 2021	Oct 2019	Jan 2020	Apr 2020	Jul 2020	< 2.02	< 2.03
9CI-PF3ONS	ng/l	---	< 2.05	< 1.98	< 2.04							< 2.02	< 2.03
ADONA	ng/l	---	< 2.05	< 1.98	< 2.04							< 2.02	< 2.03
HFPO-DA	ng/l	---	< 3.07	< 2.96	< 3.06							< 2.02	< 2.03
PFDS	ng/l	< 2.16	< 2.05	< 1.98	< 2.04							< 2.02	< 2.03
PFBS	ng/l	14	22.9	51.6	10.5							3.99 J	3.04 J
PFPeS	ng/l	< 2.16	< 2.05	< 1.98	< 2.04							< 2.02	< 2.03
PFHxS	ng/l	5.98	4.94	5.34	3.28 J							2.87 J	< 2.03
PFHpS	ng/l	< 2.16	< 2.05	< 1.98	< 2.04	< 2.02	< 2.03						
PFOS	ng/l	11.6	16	8.56	11.7	5.2	2.31 J						
PFNS	ng/l	< 2.16	< 2.05	< 1.98	< 2.04	< 2.02	< 2.03						
FOSA	ng/l	< 2.16	< 2.05	< 1.98	< 2.04	< 2.02	< 2.03						
4:2 FTS	ng/l	< 2.16	< 2.05	< 1.98	< 2.04	< 2.02	< 2.03						
6:2 FTS	ng/l	< 2.16	< 2.05	< 1.98	< 2.04	< 2.02	< 2.03						
8:2 FTS	ng/l	< 2.16	< 2.05	< 1.98	< 2.04	< 2.02	< 2.03						
NEtFOSAA	ng/l	< 2.16	< 2.05	< 1.98	< 2.04	< 2.02	< 2.03						
NMeFOSAA	ng/l	< 2.16	< 2.05	< 1.98	< 2.04	< 2.02	< 2.03						
Total PFAS	ng/l	127.24	91.86	111.79	60.18	47.98	17.04						

Footnotes:

1. bgs - Below ground surface
2. ft = feet
3. ND - Result below detection limit
4. ng/l - Nanograms per liter
5. < 2.05 - Result below detection limit
6. --- = Analyte not included in analysis.
6. BOLD - Analyte above detection
7. **Highlight** - Above EGLE Part 201 criteria: 6 ng/L PFNA, 8 ng/L PFOA, 16 ng/L PFOS, 51 ng/L PFHxS, 370 ng/L HFPO-DA, 420 ng/L PFBS, or 400,000 ng/L PFHxA
8. GRAY = Not Sampled

**GSU Quarterly Groundwater Sampling Analytical Results**  
**January 2021**  
**Iosco County, Michigan**

Location		RI-MW002				RI-MW003					
Well Screen Interval (bgs)		2 - 7 ft				2 - 7 ft					
Sample Date		GW2010281745RL				GW1910091430RAP	GW2001221710MK	GW2004151325GSC	GW2007151830RL	GW2101261615SK	
Lab Report		2002372				1903624	2000166	2000899	2001522	2102039	
Compound	Unit	Result				Result	Result	Result	Result	Result	
PFBA	ng/l	9.07				8.98	3.04 J	6.27	9.96	2.31 J	
PFPeA	ng/l	4.27				7.18	2.02 J	5.77	13.5	1.16 J	
PFHxA	ng/l	3 J				8.7	2.87 J	5.73 Q	15.5	1.4 J	
PFHpA	ng/l	1.85 J				2.87 J, Q	< 2.02	1.37 J, Q	3.61 J	< 2.05	
PFOA	ng/l	2.67 J				<b>8.7</b>	3.54 J	3.45 J	7.42	2.18 J	
PFNA	ng/l	< 2.07				1.59 J	< 2.02	< 2.00	1.87 J	< 2.05	
PFDA	ng/l	< 2.07				< 2.07	< 2.02	< 2.00	< 1.99	< 2.05	
PFUnDA	ng/l	< 2.07				< 2.07	< 2.02	< 2.00	< 1.99	< 2.05	
PFDoDA	ng/l	< 2.07				< 2.07	< 2.02	< 2.00	< 1.99	< 2.05	
PFTTrDA	ng/l	< 2.07				< 2.07	< 2.02	< 2.00	< 1.99	< 2.05	
PFTeDA	ng/l	< 2.07				< 2.07	< 2.02	< 2.00	< 1.99	< 2.05	
11CI-PF3OUdS	ng/l	< 2.07				---	< 2.02	< 2.00	< 1.99	< 2.05	
9CI-PF3ONS	ng/l	< 2.07				---	< 2.02	< 2.00	< 1.99	< 2.05	
ADONA	ng/l	< 2.07				---	< 2.02	< 2.00	< 1.99	< 2.05	
HFPO-DA	ng/l	< 2.07				---	< 3.02	< 3.00	< 2.99	< 2.05	
PFDS	ng/l	< 2.07				< 2.07	< 2.02	< 2.00	< 1.99	< 2.05	
PFBS	ng/l	1.98 J				3.05 J	< 2.02	2.52 J	3.8 J	< 2.05	
PFPeS	ng/l	< 2.07				< 2.07	< 2.02	< 2.00	< 1.99	< 2.05	
PFHxS	ng/l	1.91 J				4.55	1.45 J	1.66 J	5.17	1.6 J	
PFHpS	ng/l	< 2.07				< 2.07	< 2.02	< 2.00	< 1.99	< 2.05	
PFOS	ng/l	1.43 J				3.75 J	3.76 J	2.26 J	7.6	2.38 J	
PFNS	ng/l	< 2.07				< 2.07	< 2.02	< 2.00	< 1.99	< 2.05	
FOSA	ng/l	< 2.07				< 2.07	< 2.02	< 2.00	< 1.99	< 2.05	
4:2 FTS	ng/l	< 2.07				< 2.07	< 2.02	< 2.00	< 1.99	< 2.05	
6:2 FTS	ng/l	< 2.07				< 2.07	< 2.02	< 2.00	< 1.99	< 2.05	
8:2 FTS	ng/l	< 2.07				< 2.07	< 2.02	< 2.00	< 1.99	< 2.05	
NEtFOSAA	ng/l	< 2.07				< 2.07	< 2.02	< 2.00	< 1.99	< 2.05	
NMeFOSAA	ng/l	< 2.07				< 2.07	< 2.02	< 2.00	< 1.99	< 2.05	
Total PFAS	ng/l	26.18				49.37	16.68	29.03	68.43	11.03	

Footnotes:

1. bgs - Below ground surface
2. ft = feet
3. ND - Result below detection limit
4. ng/l - Nanograms per liter
5. < 2.05 - Result below detection limit
6. --- = Analyte not included in analysis.
6. BOLD - Analyte above detection
7. **Highlight** - Above EGLE Part 201 criteria: 6 ng/L PFNA, 8 ng/L PFOA, 16 ng/L PFOS, 51 ng/L PFHxS, 370 ng/L HFPO-DA, 420 ng/L PFBS, or 400,000 ng/L PFHxA
8. GRAY = Not Sampled

**GSU Quarterly Groundwater Sampling Analytical Results**  
**January 2021**  
**Iosco County, Michigan**

Location		RI-MW004					RI-MW005					RI-MW007						
Well Screen Interval (bgs)		5 - 10 ft					7 - 12 ft					19 - 20 ft						
Sample Date		GW2007151735RL 7/15/2020					GW2101290930KEM 1/29/2021					GW2101271635SK 1/27/2021						
Lab Report		2001522					2102040					2102039						
Compound	Unit	Result					Result					Result						
PFBA	ng/l				2.49 J						< 2.11				< 1.98			
PFPeA	ng/l				< 2.02						< 2.11				< 1.98			
PFHxA	ng/l				< 2.02						< 2.11				< 1.98			
PFHpA	ng/l				< 2.02						< 2.11				< 1.98			
PFOA	ng/l				< 2.02						< 2.11				< 1.98			
PFNA	ng/l				< 2.02						< 2.11				< 1.98			
PFDA	ng/l				< 2.02						< 2.11				< 1.98			
PFUnDA	ng/l				< 2.02						< 2.11				< 1.98			
PFDoDA	ng/l				< 2.02						< 2.11				< 1.98			
PFTTrDA	ng/l				< 2.02						< 2.11				< 1.98			
PFTeDA	ng/l				< 2.02						< 2.11				< 1.98			
11CI-PF3OUdS	ng/l				< 2.02						< 2.11				< 1.98			
9CI-PF3ONS	ng/l	Oct 2019	Jan 2020	Apr 2020	< 2.02	Oct 2020	Jan 2021	Oct 2019	Jan 2020	Apr 2020	Jul 2020	Oct 2020	Oct 2019	Jan 2020	Apr 2020	Jul 2020	Oct 2020	< 1.98
ADONA	ng/l				< 2.02													< 1.98
HFPO-DA	ng/l				< 3.04													< 1.98
PFDS	ng/l				< 2.02													< 1.98
PFBS	ng/l				< 2.02													< 1.98
PFPeS	ng/l				< 2.02													< 1.98
PFHxS	ng/l				< 2.02								6.01					< 1.98
PFHpS	ng/l				< 2.02								< 2.11					< 1.98
PFOS	ng/l				< 2.02								< 2.11					< 1.98
PFNS	ng/l				< 2.02								< 2.11					< 1.98
FOSA	ng/l				< 2.02								< 2.11					< 1.98
4:2 FTS	ng/l				< 2.02								< 2.11					< 1.98
6:2 FTS	ng/l				< 2.02								< 2.11					< 1.98
8:2 FTS	ng/l				< 2.02								< 2.11					< 1.98
NEtFOSAA	ng/l				< 2.02								< 2.11					< 1.98
NMeFOSAA	ng/l				< 2.02								< 2.11					< 1.98
Total PFAS	ng/l				2.49								6.01					ND

Footnotes:

1. bgs - Below ground surface
2. ft = feet
3. ND - Result below detection limit
4. ng/l - Nanograms per liter
5. < 2.05 - Result below detection limit
6. --- = Analyte not included in analysis.
6. BOLD - Analyte above detection
7. **Highlight** - Above EGLE Part 201 criteria: 6 ng/L PFNA, 8 ng/L PFOA, 16 ng/L PFOS, 51 ng/L PFHxS, 370 ng/L HFPO-DA, 420 ng/L PFBS, or 400,000 ng/L PFHxA
8. GRAY = Not Sampled

**GSU Quarterly Groundwater Sampling Analytical Results**  
**January 2021**  
**Iosco County, Michigan**

Location		RI-MW007						
Well Screen Interval (bgs)		39 - 40 ft						
Sample		GW1910090935RAP	W1910090935RAP-F	GW2001221255MK	GW2001221255MK-FD	GW2004151110GSC	GW2007160910RL	GW2010281335RL
Sample Date		10/9/2019	10/9/2019	1/22/2020	1/22/2020	4/15/2020	7/16/2020	10/28/2020
Lab Report		1903624	1903624	2000165	2000165	2000899	2001523	2002372
Compound	Unit	Result	Result	Result	Result	Result	Result	Result
PFBA	ng/l	< 2.13	< 2.02	2.59 J	2.68 J	2.31 J	1.81 J	1.89 J
PFPeA	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.00
PFHxA	ng/l	< 2.13	< 2.02	1.76 J	< 2.07	1.52 J, Q	< 2.00	1.79 J, Q
PFHpA	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.00
PFOA	ng/l	< 2.13	< 2.02	1.9 J	1.74 J	1.73 J	< 2.00	1.41 J
PFNA	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.00
PFDA	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.00
PFUnDA	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.00
PFDoDA	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.00
PFTTrDA	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.00
PFTeDA	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.00
11CI-PF3OUdS	ng/l	---	---	< 2.08	< 2.07	< 1.99	< 2.00	< 2.00
9CI-PF3ONS	ng/l	---	---	< 2.08	< 2.07	< 1.99	< 2.00	< 2.00
ADONA	ng/l	---	---	< 2.08	< 2.07	< 1.99	< 2.00	< 2.00
HFPO-DA	ng/l	---	---	< 3.13	< 3.11	< 2.99	< 3.00	< 2.00
PFDS	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.00
PFBS	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.00
PFPeS	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.00
PFHxS	ng/l	3.65 J	3.02 J	5.84	5.64	4.47	3.31 J	3.39 J
PFHpS	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.00
PFOS	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.00
PFNS	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.00
FOSA	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.00
4:2 FTS	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.00
6:2 FTS	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.00
8:2 FTS	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.00
NEtFOSAA	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.00
NMeFOSAA	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.00
Total PFAS	ng/l	3.65	3.02	12.09	10.06	10.03	5.12	8.48

Jan  
2021

**Footnotes:**

1. bgs - Below ground surface
2. ft = feet
3. ND - Result below detection limit
4. ng/l - Nanograms per liter
5. < 2.05 - Result below detection limit
6. --- = Analyte not included in analysis.
6. BOLD - Analyte above detection
7. **Highlight** - Above EGLE Part 201 criteria: 6 ng/L PFNA, 8 ng/L PFOA, 16 ng/L PFOS, 51 ng/L PFHxS, 370 ng/L HFPO-DA, 420 ng/L PFBS, or 400,000 ng/L PFHxA
8. GRAY = Not Sampled



**GSU Quarterly Groundwater Sampling Analytical Results**  
**January 2021**  
**Iosco County, Michigan**

Location		RI-MW008				RI-MW008						
Well Screen Interval (bgs)		18 - 19 ft				27.5 - 28.5 ft						
Sample Date												
Lab Report												
Compound	Unit											
					GW2010281430RL	GW2101261715SK	GW1910091525RAP	GW2001221500RAP	GW2004151005GSC	GW2007160945RL		
					10/28/2020	1/26/2021	10/9/2019	1/22/2020	4/15/2020	7/16/2020		
					2002372	2102039	1903624	2000165	2000899	2001523		
					Result	Result	Result	Result	Result	Result		
PFBA	ng/l				1.54 J	1.4 J	1.98 J	3.7 J	1.56 J	1.85 J		
PFPeA	ng/l				1.12 J	1.4 J	2.67 J	5.26	4.63	4.37		
PFHxA	ng/l				1.76 J	1.47 J, Q	4.14	10.2	8.88	6.9		
PFHpA	ng/l				< 2.04	< 2.00	1.46 J, Q	4.48 Q	4.54	4.19		
PFOA	ng/l				3.46 J	2.87 J	3.08 J	6.05	4.03	3.95 J		
PFNA	ng/l				< 2.04	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03		
PFDA	ng/l				< 2.04	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03		
PFUnDA	ng/l				< 2.04	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03		
PFDoDA	ng/l				< 2.04	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03		
PFTTrDA	ng/l				< 2.04	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03		
PFTeDA	ng/l				< 2.04	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03		
11CI-PF3OUdS	ng/l				< 2.04	< 2.00	---	< 1.98	< 1.96	< 2.03		
9CI-PF3ONS	ng/l				< 2.04	< 2.00	---	< 1.98	< 1.96	< 2.03		
ADONA	ng/l				< 2.04	< 2.00	---	< 1.98	< 1.96	< 2.03		
HFPO-DA	ng/l				< 2.04	< 2.00	---	< 2.98	< 2.94	< 3.05		
PFDS	ng/l				< 2.04	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03		
PFBS	ng/l				< 2.04	1.18 J, Q	< 2.02	< 1.98	< 1.96	< 2.03		
PFPeS	ng/l				< 2.04	< 2.00	< 2.02	1.56 J, Q	1.54 J, Q	< 2.03		
PFHxS	ng/l				3.79 J	3.69 J	4.22	7.91	7	7.59		
PFHpS	ng/l				< 2.04	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03		
PFOS	ng/l				< 2.04	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03		
PFNS	ng/l				< 2.04	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03		
FOSA	ng/l				< 2.04	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03		
4:2 FTS	ng/l				< 2.04	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03		
6:2 FTS	ng/l				< 2.04	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03		
8:2 FTS	ng/l				< 2.04	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03		
NEtFOSAA	ng/l				< 2.04	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03		
NMeFOSAA	ng/l				< 2.04	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03		
Total PFAS	ng/l				11.67	12.01	17.55	39.16	32.18	28.85		

Footnotes:

1. bgs - Below ground surface
2. ft = feet
3. ND - Result below detection limit
4. ng/l - Nanograms per liter
5. < 2.05 - Result below detection limit
6. --- = Analyte not included in analysis.
6. BOLD - Analyte above detection
7. **Highlight** - Above EGLE Part 201 criteria: 6 ng/L PFNA, 8 ng/L PFOA, 16 ng/L PFOS, 51 ng/L PFHxS, 370 ng/L HFPO-DA, 420 ng/L PFBS, or 400,000 ng/L PFHxA
8. GRAY = Not Sampled

**GSU Quarterly Groundwater Sampling Analytical Results**  
**January 2021**  
**Iosco County, Michigan**

Location Well Screen Interval (bgs)		RI-MW009					RI-MW024										
		32 - 33 ft					17 - 18 ft										
Sample Date		Oct 2019	Jan 2020	Apr 2020	Jul 2020	Oct 2020	GW2101270830SK	GW1910100900GSC	GW1910100900GSC-FD	Jan 2020	GW2004141605GSC	GW2007151400GSC	GW2007151400GSC-FD	Oct 2020	Jan 2021		
Lab Report							1/27/2021	10/10/2019	10/10/2019		4/14/2020	7/15/2020	7/15/2020				
Compound	Unit						2102039	1903624	1903624								
							Result	Result	Result								
PFBA	ng/l						3.3 J	< 2.07	< 2.02						3.55 J	< 1.97	< 2.04
PFPeA	ng/l						3.07 J	< 2.07	< 2.02						1.67 J	< 1.97	< 2.04
PFHxA	ng/l						3.54 J	< 2.07	< 2.02						2.55 J, Q	< 1.97	< 2.04
PFHpA	ng/l						< 2.05	< 2.07	< 2.02						< 1.99	< 1.97	< 2.04
PFOA	ng/l						1.61 J	2.31 J	2.5 J						3.96 J	1.57 J	< 2.04
PFNA	ng/l						< 2.05	< 2.07	< 2.02						< 1.99	< 1.97	< 2.04
PFDA	ng/l						< 2.05	< 2.07	< 2.02						< 1.99	< 1.97	< 2.04
PFUnDA	ng/l						< 2.05	< 2.07	< 2.02						< 1.99	< 1.97	< 2.04
PFDoDA	ng/l						< 2.05	< 2.07	< 2.02						< 1.99	< 1.97	< 2.04
PFTTrDA	ng/l						< 2.05	< 2.07	< 2.02						< 1.99	< 1.97	< 2.04
PFTeDA	ng/l						< 2.05	< 2.07	< 2.02						< 1.99	< 1.97	< 2.04
11CI-PF3OUdS	ng/l						< 2.05	---	---						< 1.99	< 1.97	< 2.04
9CI-PF3ONS	ng/l						< 2.05	---	---						< 1.99	< 1.97	< 2.04
ADONA	ng/l						< 2.05	---	---						< 1.99	< 1.97	< 2.04
HFPO-DA	ng/l						< 2.05	---	---						< 2.99	< 2.95	< 3.06
PFDS	ng/l						< 2.05	< 2.07	< 2.02						< 1.99	< 1.97	< 2.04
PFBS	ng/l						3.64 J	8.07	7.91						15.3	5.49	4.5
PFPeS	ng/l						1.65 J, Q	< 2.07	< 2.02						< 1.99	< 1.97	< 2.04
PFHxS	ng/l						8.82	< 2.07	< 2.02						< 1.99	< 1.97	< 2.04
PFHpS	ng/l						< 2.05	< 2.07	< 2.02						< 1.99	< 1.97	< 2.04
PFOS	ng/l						< 2.05	< 2.07	< 2.02						< 1.99	< 1.97	< 2.04
PFNS	ng/l						< 2.05	< 2.07	< 2.02						< 1.99	< 1.97	< 2.04
FOSA	ng/l						< 2.05	< 2.07	< 2.02						< 1.99	< 1.97	< 2.04
4:2 FTS	ng/l						< 2.05	< 2.07	< 2.02						< 1.99	< 1.97	< 2.04
6:2 FTS	ng/l						< 2.05	< 2.07	< 2.02						< 1.99	< 1.97	< 2.04
8:2 FTS	ng/l						< 2.05	< 2.07	< 2.02						< 1.99	< 1.97	< 2.04
NEtFOSAA	ng/l						< 2.05	< 2.07	< 2.02						< 1.98	< 1.97	< 2.04
NMeFOSAA	ng/l						< 2.05	< 2.07	< 2.02						< 1.99	< 1.97	< 2.04
Total PFAS	ng/l						25.63	10.38	10.41						27.03	7.06	4.5

Footnotes:

1. bgs - Below ground surface
2. ft = feet
3. ND - Result below detection limit
4. ng/l - Nanograms per liter
5. < 2.05 - Result below detection limit
6. --- = Analyte not included in analysis.
6. BOLD - Analyte above detection
7. **Highlight** - Above EGLE Part 201 criteria: 6 ng/L PFNA, 8 ng/L PFOA, 16 ng/L PFOS, 51 ng/L PFHxS, 370 ng/L HFPO-DA, 420 ng/L PFBS, or 400,000 ng/L PFHxA
8. GRAY = Not Sampled

**GSU Quarterly Groundwater Sampling Analytical Results**  
**January 2021**  
**Iosco County, Michigan**

Location		RI-MW024			RI-MW025								
Well Screen Interval (bgs)		26 - 27 ft			5.5 - 10.5 ft								
Sample		GW1910100945GSC	GW2001231215RAP	GW2004141640GSC									
Sample Date		10/10/2019	1/23/2020	4/14/2020									
Lab Report		1903624	2000166	2000899									
Compound	Unit	Result	Result	Result									
PFBA	ng/l	< 2.02	< 1.96	< 1.99									
PFPeA	ng/l	2 J	< 1.96	2.36 J									
PFHxA	ng/l	3.88 J	2.33 J, Q	3.61 J									
PFHpA	ng/l	2.04 J, Q	< 1.96	< 1.99									
PFOA	ng/l	1.65 J	2.77 J	3.07 J									
PFNA	ng/l	< 2.02	< 1.96	< 1.99									
PFDA	ng/l	< 2.02	< 1.96	< 1.99									
PFUnDA	ng/l	< 2.02	< 1.96	< 1.99									
PFDoDA	ng/l	< 2.02	< 1.96	< 1.99									
PFTTrDA	ng/l	< 2.02	< 1.96	< 1.99									
PFTeDA	ng/l	< 2.02	< 1.96	< 1.99									
11CI-PF3OUdS	ng/l	---	< 1.96	< 1.99	Jan	Oct	Jan	Oct	Jul	Apr	< 2.07	Oct	Jan
9CI-PF3ONS	ng/l	---	< 1.96	< 1.99	2020	2020	2021	2019	2020	2020	< 2.07	2020	2021
ADONA	ng/l	---	< 1.96	< 1.99							< 2.07		
HFPO-DA	ng/l	---	< 2.94	< 2.99							< 3.11		
PFDS	ng/l	< 2.02	< 1.96	< 1.99							< 2.07		
PFBS	ng/l	3.98 J	2.69 J	3.74 J, Q							< 2.07		
PFPeS	ng/l	< 2.02	< 1.96	< 1.99							< 2.07		
PFHxS	ng/l	7.07	1.49 J	1.7 J							< 2.07		
PFHpS	ng/l	< 2.02	< 1.96	< 1.99							< 2.07		
PFOS	ng/l	< 2.02	< 1.96	< 1.99							< 2.07		
PFNS	ng/l	< 2.02	< 1.96	< 1.99							< 2.07		
FOSA	ng/l	< 2.02	< 1.96	< 1.99							< 2.07		
4:2 FTS	ng/l	< 2.02	< 1.96	< 1.99							< 2.07		
6:2 FTS	ng/l	< 2.02	< 1.96	< 1.99							< 2.07		
8:2 FTS	ng/l	< 2.02	< 1.96	< 1.99							< 2.07		
NEtFOSAA	ng/l	< 2.02	< 1.96	< 1.99							< 2.07		
NMeFOSAA	ng/l	< 2.02	< 1.96	< 1.99							< 2.07		
Total PFAS	ng/l	20.62	9.28	14.48							5.42		

Footnotes:

1. bgs - Below ground surface
2. ft = feet
3. ND - Result below detection limit
4. ng/l - Nanograms per liter
5. < 2.05 - Result below detection limit
6. --- = Analyte not included in analysis.
6. BOLD - Analyte above detection
7. **Highlight** - Above EGLE Part 201 criteria: 6 ng/L PFNA, 8 ng/L PFOA, 16 ng/L PFOS, 51 ng/L PFHxS, 370 ng/L HFPO-DA, 420 ng/L PFBS, or 400,000 ng/L PFHxA
8. GRAY = Not Sampled

**GSU Quarterly Groundwater Sampling Analytical Results**  
**January 2021**  
**Iosco County, Michigan**

Location Well Screen Interval (bgs)		RI-MW026				RI-MW026							
		16 - 21 ft				32 - 33 ft							
Sample Date		Oct 2019	Jan 2020	Apr 2020	Jul 2020	Jan 2021	Oct 2020	Apr 2020	GW2007151440GSC 7/15/2020	GW2010281445CM 10/28/2020	GW2101270830GSC 1/27/2021	GW2101270830GSC-FD 1/27/2021	
Lab Report													
Compound	Unit	GW2010281555CM 10/28/2020 2002372 Result				GW2001231320RAP 1/23/2020 2000166 Result				Result			
PFBA	ng/l								< 2.10	2.22 J	< 1.98	< 2.02	
PFPeA	ng/l								2.52 J	5.56	< 1.98	< 2.02	
PFHxA	ng/l								2.94 J	5.66	< 1.98	< 2.02	
PFHpA	ng/l								3.35 J	2.84 J	< 1.98	< 2.02	
PFOA	ng/l								<b>12.9</b>	<b>11</b>	< 1.98	< 2.02	
PFNA	ng/l								< 2.10	< 2.04	< 1.98	< 2.02	
PFDA	ng/l								< 2.10	< 2.04	< 1.98	< 2.02	
PFUnDA	ng/l								< 2.10	< 2.04	< 1.98	< 2.02	
PFDODA	ng/l								< 2.10	< 2.04	< 1.98	< 2.02	
PFTTrDA	ng/l								< 2.10	< 2.04	< 1.98	< 2.02	
PFTeDA	ng/l								< 2.10	< 2.04	< 1.98	< 2.02	
11CI-PF3OUdS	ng/l								< 2.10	< 2.04	< 1.98	< 2.02	
9CI-PF3ONS	ng/l								< 2.10	< 2.04	< 1.98	< 2.02	
ADONA	ng/l								< 2.10	< 2.04	< 1.98	< 2.02	
HFPO-DA	ng/l								< 3.15	< 2.04	< 1.98	< 2.02	
PFDS	ng/l								< 2.10	< 2.04	< 1.98	< 2.02	
PFBS	ng/l								< 2.10	< 2.04	< 1.98	< 2.02	
PFPeS	ng/l								< 2.10	< 2.04	< 1.98	< 2.02	
PFHxS	ng/l								4.15 J	4.52	< 1.98	< 2.02	
PFHpS	ng/l								< 2.10	< 2.04	< 1.98	< 2.02	
PFOS	ng/l								< 2.10	< 2.04	< 1.98	< 2.02	
PFNS	ng/l								< 2.10	< 2.04	< 1.98	< 2.02	
FOSA	ng/l								< 2.10	< 2.04	< 1.98	< 2.02	
4:2 FTS	ng/l								< 2.10	< 2.04	< 1.98	< 2.02	
6:2 FTS	ng/l								< 2.10	< 2.04	< 1.98	< 2.02	
8:2 FTS	ng/l								< 2.10	< 2.04	< 1.98	< 2.02	
NEtFOSAA	ng/l								< 2.10	< 2.04	< 1.98	< 2.02	
NMeFOSAA	ng/l								< 2.10	< 2.04	< 1.98	< 2.02	
Total PFAS	ng/l								40.98	25.86	31.8	ND	

Footnotes:

1. bgs - Below ground surface
2. ft = feet
3. ND - Result below detection limit
4. ng/l - Nanograms per liter
5. < 2.05 - Result below detection limit
6. --- = Analyte not included in analysis.
6. BOLD - Analyte above detection
7. **Highlight** - Above EGLE Part 201 criteria: 6 ng/L PFNA, 8 ng/L PFOA, 16 ng/L PFOS, 51 ng/L PFHxS, 370 ng/L HFPO-DA, 420 ng/L PFBS, or 400,000 ng/L PFHxA
8. GRAY = Not Sampled



**GSU Quarterly Groundwater Sampling Analytical Results**  
**January 2021**  
**Iosco County, Michigan**

Location Well Screen Interval (bgs)		RI-MW028				RI-MW028							
		20 - 21 ft				5 - 10 ft							
Sample Sample Date		Oct 2019	Jan 2020	Apr 2020	Jul 2020	Jan 2021	Oct 2019	Jan 2020	Apr 2020	GW2010291115CM	GW2007151515GSC	GW2010281735CM	GW2101271030GSC
Lab Report										2002372	2001522	2002372	2102039
Compound	Unit	Result				Result				Result	Result	Result	
PFBA	ng/l									< 2.03	< 2.07	< 1.96	< 1.96
PFPeA	ng/l									< 2.03	< 2.07	< 1.96	< 1.96
PFHxA	ng/l									< 2.03	< 2.07	< 1.96	< 1.96
PFHpA	ng/l									1.77 J	< 2.07	< 1.96	< 1.96
PFOA	ng/l									2.34 J	< 2.07	< 1.96	< 1.96
PFNA	ng/l									< 2.03	< 2.07	< 1.96	< 1.96
PFDA	ng/l									< 2.03	< 2.07	< 1.96	< 1.96
PFUnDA	ng/l									< 2.03	< 2.07	< 1.96	< 1.96
PFDoDA	ng/l									< 2.03	< 2.07	< 1.96	< 1.96
PFTTrDA	ng/l									< 2.03	< 2.07	< 1.96	< 1.96
PFTeDA	ng/l									< 2.03	< 2.07	< 1.96	< 1.96
11CI-PF3OUdS	ng/l									< 2.03	< 2.07	< 1.96	< 1.96
9CI-PF3ONS	ng/l									< 2.03	< 2.07	< 1.96	< 1.96
ADONA	ng/l									< 2.03	< 2.07	< 1.96	< 1.96
HFPO-DA	ng/l									< 3.05	< 2.07	< 1.96	< 1.96
PFDS	ng/l									< 2.03	< 2.07	< 1.96	< 1.96
PFBS	ng/l									< 2.03	1.67 J	< 1.96	< 1.96
PFPeS	ng/l									< 2.03	< 2.07	< 1.96	< 1.96
PFHxS	ng/l									10.5	5.99	6.17	6.17
PFHpS	ng/l									< 2.03	< 2.07	< 1.96	< 1.96
PFOS	ng/l									7.39	7.95	6.63	6.63
PFNS	ng/l									< 2.03	< 2.07	< 1.96	< 1.96
FOSA	ng/l									< 2.03	< 2.07	< 1.96	< 1.96
4:2 FTS	ng/l									< 2.03	< 2.07	< 1.96	< 1.96
6:2 FTS	ng/l									< 2.03	< 2.07	< 1.96	< 1.96
8:2 FTS	ng/l									< 2.03	< 2.07	< 1.96	< 1.96
NEtFOSAA	ng/l									< 2.03	< 2.07	< 1.96	< 1.96
NMeFOSAA	ng/l									< 2.03	< 2.07	< 1.96	< 1.96
Total PFAS	ng/l									22	15.61	12.8	12.8

**Footnotes:**

1. bgs - Below ground surface
2. ft = feet
3. ND - Result below detection limit
4. ng/l - Nanograms per liter
5. < 2.05 - Result below detection limit
6. --- = Analyte not included in analysis.
6. BOLD - Analyte above detection
7. **Highlight** - Above EGLE Part 201 criteria: 6 ng/L PFNA, 8 ng/L PFOA, 16 ng/L PFOS, 51 ng/L PFHxS, 370 ng/L HFPO-DA, 420 ng/L PFBS, or 400,000 ng/L PFHxA
8. GRAY = Not Sampled

**GSU Quarterly Groundwater Sampling Analytical Results**  
**January 2021**  
**Iosco County, Michigan**

Location		RI-MW030					
Well Screen Interval (bgs)		24 - 25 ft					
Sample		GW1910101025RAP	GW2001230915RAP	GW2004141735GSC			
Sample Date		10/10/2019	1/23/2020	4/14/2020			
Lab Report		1903624	2000166	2000899			
Compound	Unit	Result	Result	Result			
PFBA	ng/l	< 2.28	4.77	4.33			
PFPeA	ng/l	< 2.28	< 2.05	< 2.08			
PFHxA	ng/l	< 2.28	< 2.05	< 2.08			
PFHpA	ng/l	< 2.28	< 2.05	< 2.08			
PFOA	ng/l	< 2.28	< 2.05	< 2.08			
PFNA	ng/l	< 2.28	< 2.05	< 2.08			
PFDA	ng/l	< 2.28	< 2.05	< 2.08			
PFUnDA	ng/l	< 2.28	< 2.05	< 2.08			
PFDoDA	ng/l	< 2.28	< 2.05	< 2.08			
PFTTrDA	ng/l	< 2.28	< 2.05	< 2.08			
PFTeDA	ng/l	< 2.28	< 2.05	< 2.08			
11CI-PF3OUdS	ng/l	---	< 2.05	< 2.08	Jul 2020	Oct 2020	Jan 2021
9CI-PF3ONS	ng/l	---	< 2.05	< 2.08			
ADONA	ng/l	---	< 2.05	< 2.08			
HFPO-DA	ng/l	---	< 3.07	< 3.13			
PFDS	ng/l	< 2.28	< 2.05	< 2.08			
PFBS	ng/l	< 2.28	< 2.05	< 2.08			
PFPeS	ng/l	< 2.28	< 2.05	< 2.08			
PFHxS	ng/l	< 2.28	< 2.05	< 2.08			
PFHpS	ng/l	< 2.28	< 2.05	< 2.08			
PFOS	ng/l	< 2.28	2.27 J	< 2.08			
PFNS	ng/l	< 2.28	< 2.05	< 2.08			
FOSA	ng/l	< 2.28	< 2.05	< 2.08			
4:2 FTS	ng/l	< 2.28	< 2.05	< 2.08			
6:2 FTS	ng/l	< 2.28	< 2.05	< 2.08			
8:2 FTS	ng/l	< 2.28	< 2.05	< 2.08			
NEtFOSAA	ng/l	< 2.28	< 2.05	< 2.08			
NMeFOSAA	ng/l	< 2.28	< 2.05	< 2.08			
Total PFAS	ng/l	ND	7.04	4.33			

**Footnotes:**

1. bgs - Below ground surface
2. ft = feet
3. ND - Result below detection limit
4. ng/l - Nanograms per liter
5. < 2.05 - Result below detection limit
6. --- = Analyte not included in analysis.
6. BOLD - Analyte above detection
7. **Highlight** - Above EGLE Part 201 criteria: 6 ng/L PFNA, 8 ng/L PFOA, 16 ng/L PFOS, 51 ng/L PFHxS, 370 ng/L HFPO-DA, 420 ng/L PFBS, or 400,000 ng/L PFHxA
8. GRAY = Not Sampled

**GSU Quarterly Groundwater Sampling Analytical Results**  
**January 2021**  
**Iosco County, Michigan**

Location		RI-MW032					
Well Screen Interval (bgs)		18 - 23 ft					
Sample		GW1910091630RAP	GW2001221530MK	GW2004150915GSC	GW2007151700GSC	GW2010291335CM	GW2101270930SK
Sample Date		10/9/2019	1/22/2020	4/15/2020	7/15/2020	10/29/2020	1/27/2021
Lab Report		1903624	2000166	2000899	2001522	2002372	2102039
Compound	Unit	Result	Result	Result	Result	Result	Result
PFBA	ng/l	6.72	8.18	5.64	8.09	9.46	8.83
PFPeA	ng/l	9.72	15.1	11.2	13	16.8	20.1
PFHxA	ng/l	13.4	20.4	19.2	20.3	26.5	30.2
PFHpA	ng/l	3.87 J	5.84	6.59	8.73	12.7	15.9
PFOA	ng/l	<b>11.3</b>	<b>15.9</b>	<b>17.9</b>	<b>19.8</b>	<b>22.4</b>	<b>25.1</b>
PFNA	ng/l	< 2.16	< 2.04	< 2.02	< 2.07	< 1.98	< 1.98
PFDA	ng/l	< 2.16	< 2.04	< 2.02	< 2.07	< 1.98	< 1.98
PFUnDA	ng/l	< 2.16	< 2.04	< 2.02	< 2.07	< 1.98	< 1.98
PFDoDA	ng/l	< 2.16	< 2.04	< 2.02	< 2.07	< 1.98	< 1.98
PFTTrDA	ng/l	< 2.16	< 2.04	< 2.02	< 2.07	< 1.98	< 1.98
PFTeDA	ng/l	< 2.16	< 2.04	< 2.02	< 2.07	< 1.98	< 1.98
11CI-PF3OUdS	ng/l	---	< 2.04	< 2.02	< 2.07	< 1.98	< 1.98
9CI-PF3ONS	ng/l	---	< 2.04	< 2.02	< 2.07	< 1.98	< 1.98
ADONA	ng/l	---	< 2.04	< 2.02	< 2.07	< 1.98	< 1.98
HFPO-DA	ng/l	---	< 3.06	< 3.02	< 3.10	< 1.98	< 1.98
PFDS	ng/l	< 2.16	< 2.04	< 2.02	< 2.07	< 1.98	< 1.98
PFBS	ng/l	23.8	27.6	23.8	25.6	31.3	33.1
PFPeS	ng/l	1.52 J	3.38 J	2.92 J	3.13 J	3.51 J	4.34
PFHxS	ng/l	44.3	<b>75.2</b>	<b>71.6</b>	<b>88.3</b>	<b>83.7</b>	<b>103</b>
PFHpS	ng/l	< 2.16	< 2.04	< 2.02	< 2.07	< 1.98	< 1.98
PFOS	ng/l	1.96 J, Q	3.21 J	< 2.02	2.15 J	2.76 J	5.21
PFNS	ng/l	< 2.16	< 2.04	< 2.02	< 2.07	< 1.98	< 1.98
FOSA	ng/l	< 2.16	< 2.04	< 2.02	< 2.07	< 1.98	< 1.98
4:2 FTS	ng/l	< 2.16	< 2.04	< 2.02	< 2.07	< 1.98	< 1.98
6:2 FTS	ng/l	< 2.16	< 2.04	< 2.02	< 2.07	< 1.98	< 1.98
8:2 FTS	ng/l	< 2.16	< 2.04	< 2.02	< 2.07	< 1.98	< 1.98
NEtFOSAA	ng/l	< 2.16	< 2.04	< 2.02	< 2.07	< 1.98	< 1.98
NMeFOSAA	ng/l	< 2.16	< 2.04	< 2.02	< 2.07	< 1.98	< 1.98
Total PFAS	ng/l	116.59	174.81	158.85	189.1	209.13	245.78

Footnotes:

1. bgs - Below ground surface
2. ft = feet
3. ND - Result below detection limit
4. ng/l - Nanograms per liter
5. < 2.05 - Result below detection limit
6. --- = Analyte not included in analysis.
6. BOLD - Analyte above detection
7. **Highlight** - Above EGLE Part 201 criteria: 6 ng/L PFNA, 8 ng/L PFOA, 16 ng/L PFOS, 51 ng/L PFHxS, 370 ng/L HFPO-DA, 420 ng/L PFBS, or 400,000 ng/L PFHxA
8. GRAY = Not Sampled



**GSU Quarterly Groundwater Sampling Analytical Results**  
**January 2021**  
**Iosco County, Michigan**

Location		RI-MW032					RI-MW033								
Well Screen Interval (bgs)		29 - 30 ft					13 - 18 ft								
Sample Date		Oct 2019	Jan 2020	Apr 2020	Jul 2020	Oct 2020	GW2101271010SK	GW1910100915RAP	GW2001221440MK	GW2004150830GSC	GW2007151730GSC	GW2010291430CM	GW2101271100SK		
Lab Report							1/27/2021	10/10/2019	1/22/2020	4/15/2020	7/15/2020	10/29/2020	1/27/2021		
Compound	Unit	2102039		1903624		2000165		2000899		2001522		2002372		2102039	
		Result		Result		Result		Result		Result		Result			
PFBA	ng/l						7.15	2.43 J	5.68	6.51	3.45 J	1.76 J	<2.03		
PFPeA	ng/l						6.14	1.51 J	< 2.02	1.85 J	3.42 J	1.75 J	1.05 J		
PFHxA	ng/l						7.13	1.53 J	1.9 J, Q	5.91	4.71	3.19 J, Q	1.14 J,Q		
PFHpA	ng/l						1.8 J, Q	< 2.09	1.68 J	3.3 J	4.68	3.62 J	2.09 J		
PFOA	ng/l						5.29	<b>8.14</b>	<b>10.6</b>	<b>14</b>	<b>17</b>	<b>19.1</b>	<b>10.40</b>		
PFNA	ng/l						< 2.01	< 2.09	< 2.02	< 1.98	< 2.05	< 2.07	<2.03		
PFDA	ng/l						< 2.01	< 2.09	< 2.02	< 1.98	< 2.05	< 2.07	<2.03		
PFUnDA	ng/l						< 2.01	< 2.09	< 2.02	< 1.98	< 2.05	< 2.07	<2.03		
PFDoDA	ng/l						< 2.01	< 2.09	< 2.02	< 1.98	< 2.05	< 2.07	<2.03		
PFTTrDA	ng/l						< 2.01	< 2.09	< 2.02	< 1.98	< 2.05	< 2.07	<2.03		
PFTeDA	ng/l						< 2.01	< 2.09	< 2.02	< 1.98	< 2.05	< 2.07	<2.03		
11CI-PF3OUdS	ng/l						< 2.01	---	< 2.02	< 1.98	< 2.05	< 2.07	<2.03		
9CI-PF3ONS	ng/l						< 2.01	---	< 2.02	< 1.98	< 2.05	< 2.07	<2.03		
ADONA	ng/l						< 2.01	---	< 2.02	< 1.98	< 2.05	< 2.07	<2.03		
HFPO-DA	ng/l						< 2.01	---	< 3.02	< 2.96	< 3.07	< 2.07	<2.03		
PFDS	ng/l						< 2.01	< 2.09	< 2.02	< 1.98	< 2.05	< 2.07	<2.03		
PFBS	ng/l						19.8	3.35 J	2.61 J	6.11	2.97 J	4.69	3.04 J		
PFPeS	ng/l						1.35 J	< 2.09	< 2.02	< 1.98	< 2.05	< 2.07	<2.03		
PFHxS	ng/l						13	35.9	26.5	22.8	22.3	39.8	23.60		
PFHpS	ng/l						< 2.01	< 2.09	< 2.02	< 1.98	< 2.05	< 2.07	<2.03		
PFOS	ng/l						< 2.01	3.86 J	4.96	< 1.98	4.28	5.21	4.11		
PFNS	ng/l						< 2.01	< 2.09	< 2.02	< 1.98	< 2.05	< 2.07	<2.03		
FOSA	ng/l						< 2.01	< 2.09	< 2.02	< 1.98	< 2.05	< 2.07	<2.03		
4:2 FTS	ng/l						< 2.01	< 2.09	< 2.02	< 1.98	< 2.05	< 2.07	<2.03		
6:2 FTS	ng/l						< 2.01	< 2.09	< 2.02	< 1.98	< 2.05	< 2.07	<2.03		
8:2 FTS	ng/l						< 2.01	< 2.09	< 2.02	< 1.98	< 2.05	< 2.07	<2.03		
NEtFOSAA	ng/l						< 2.01	< 2.09	< 2.02	< 1.98	< 2.05	< 2.07	<2.03		
NMeFOSAA	ng/l						< 2.01	< 2.09	< 2.02	< 1.98	< 2.05	< 2.07	<2.03		
Total PFAS	ng/l						61.66	56.72	53.93	60.48	62.81	79.12	45.43		

Footnotes:  
1. bgs - Below ground surface  
2. ft = feet  
3. ND - Result below detection limit  
4. ng/l - Nanograms per liter  
5. < 2.05 - Result below detection limit  
6. --- = Analyte not included in analysis.  
6. BOLD - Analyte above detection  
7. **Highlight** - Above EGLE Part 201  
criteria: 6 ng/L PFNA, 8 ng/L PFOA,  
16 ng/L PFOS, 51 ng/L PFHxS,  
370 ng/L HFPO-DA, 420 ng/L PFBS,  
or 400,000 ng/L PFHxA  
8. GRAY = Not Sampled

**GSU Quarterly Groundwater Sampling Analytical Results**  
**January 2021**  
**Iosco County, Michigan**

Location		RI-MW033					RI-MW034					
Well Screen Interval (bgs)		27.5 - 28.5 ft					7.5 - 12.5 ft					
Sample		GW2101271130SK					GW2007151800GSC					
Sample Date		1/27/2021					7/15/2020					
Lab Report		2102039					2001522					
Compound	Unit	Result					Result					
PFBA	ng/l					< 2.03					1.88 J	2.44 J
PFPeA	ng/l					< 2.03					< 2.02	< 2.05
PFHxA	ng/l					< 2.03					< 2.02	< 2.05
PFHpA	ng/l					< 2.03					< 2.02	< 2.05
PFOA	ng/l					< 2.03					< 2.02	< 2.05
PFNA	ng/l					< 2.03					< 2.02	< 2.05
PFDA	ng/l					< 2.03					< 2.02	< 2.05
PFUnDA	ng/l					< 2.03					< 2.02	< 2.05
PFDoDA	ng/l					< 2.03					< 2.02	< 2.05
PFTTrDA	ng/l					< 2.03					< 2.02	< 2.05
PFTeDA	ng/l					< 2.03					< 2.02	< 2.05
11CI-PF3OUdS	ng/l					< 2.03					< 2.02	< 2.05
9CI-PF3ONS	ng/l	Oct 2019	Jan 2020	Apr 2020	Jul 2020	Oct 2020	< 2.03	Oct 2019	Jan 2020	Apr 2020	Oct 2020	< 2.05
ADONA	ng/l						< 2.03					< 2.05
HFPO-DA	ng/l						< 2.03					< 2.05
PFDS	ng/l						< 2.03					< 2.05
PFBS	ng/l						< 2.03					1.79 J
PFPeS	ng/l						< 2.03					< 2.05
PFHxS	ng/l						1.43 J					2.65 J
PFHpS	ng/l						< 2.03					< 2.05
PFOS	ng/l						< 2.03					3.37 J
PFNS	ng/l						< 2.03					1.2 J
FOSA	ng/l						< 2.03					< 2.05
4:2 FTS	ng/l						< 2.03					< 2.05
6:2 FTS	ng/l						< 2.03					< 2.05
8:2 FTS	ng/l						< 2.03					< 2.05
NEtFOSAA	ng/l						< 2.03					< 2.05
NMeFOSAA	ng/l						< 2.03					< 2.05
Total PFAS	ng/l						1.43					9.69
												8.32

Footnotes:

1. bgs - Below ground surface
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3. ND - Result below detection limit
4. ng/l - Nanograms per liter
5. < 2.05 - Result below detection limit
6. --- = Analyte not included in analysis.
6. BOLD - Analyte above detection
7. **Highlight** - Above EGLE Part 201 criteria: 6 ng/L PFNA, 8 ng/L PFOA, 16 ng/L PFOS, 51 ng/L PFHxS, 370 ng/L HFPO-DA, 420 ng/L PFBS, or 400,000 ng/L PFHxA
8. GRAY = Not Sampled