

PFAS Nomenclature
GSU Monitoring Well Sampling Analytical Results
Year 1, Quarter 4
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	PFTTrDA	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 (PFCAs)
	Perfluoropolyether carboxylic acids (PFPE)
	Perfluoroalkane Sulfonic Acids (PFSAs)
	Perfluoroalkane Sulfonamides (FASAs)
	Fluorotelomer Sulfonic Acids (FTSAs)
	N-Ethyl Perfluoroalkane Sulfonamidoacetic Acids (EtFASAAs)
	N-Methyl Perfluoroalkane Sulfonamidoacetic Acids (MeFASAAs)

GSU Monitoring Well Sampling
Year 1, Quarter 4
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Location Well Screen Interval (bgs)	DEQ-CR-MW002				DEQ-CR-MW005			
	20 - 25 ft				18 - 23 ft			
	Sample Sample Date Lab Report	GW1910081420RAP 10/8/2019 1903623	GW2001221050MK 1/22/2020 2000165	GW2004151045RL 4/15/2020 2000899	GW2007151105RL 7/15/2020 2001522	GW1910081505RAP 10/8/2019 1903623	GW2001221050RAP 1/22/2020 2000165	
Compound	Unit	Result	Result	Result	Result	Result	Result	
PFBA	ng/l	< 2.11	2.39 J	1.62 J	2.84 J	< 2.05	< 2.05	< 2.03
PFPeA	ng/l	< 2.11	< 2.02	< 2.02	1.5 J	< 2.05	< 2.05	< 2.03
PFHxA	ng/l	< 2.11	< 2.02	2.97 J	1.8 J	< 2.05	< 2.05	< 2.03
PFHpA	ng/l	< 2.11	3.03 J, Q	4.69 Q	2.07 J	< 2.05	< 2.05	< 2.03
PFOA	ng/l	2.12 J	7.31	7.65	4.37	< 2.05	< 2.05	< 2.03
PFNA	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.05	< 2.05	< 2.03
PFDA	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.05	< 2.05	< 2.03
PFUnA	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.05	< 2.05	< 2.03
PFDaA	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.05	< 2.05	< 2.03
PFTTrDA	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.05	< 2.05	< 2.03
PFTeDA	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.05	< 2.05	< 2.03
11CI-PF3OUdS	ng/l	---	< 2.02	< 2.02	< 2.15	---	< 2.05	< 2.03
9CI-PF3ONS	ng/l	---	< 2.02	< 2.02	< 2.15	---	< 2.05	< 2.03
ADONA	ng/l	---	< 2.02	< 2.02	< 2.15	---	< 2.05	< 2.03
HFPO-DA	ng/l	---	< 3.02	< 3.04	< 3.22	---	< 3.07	< 3.05
PFDS	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.05	< 2.05	< 2.03
PFBS	ng/l	< 2.11	1.93 J	< 2.02	< 2.15	< 2.05	< 2.05	< 2.03
PFPeS	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.05	< 2.05	< 2.03
PFHxS	ng/l	< 2.11	4.93	4.5	1.85 J	< 2.05	< 2.05	< 2.03
PFHpS	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.05	< 2.05	< 2.03
PFOS	ng/l	12.9	41.5	43.9	25.4	< 2.05	< 2.05	< 2.03
PFNS	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.05	< 2.05	< 2.03
PFOSA	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.05	< 2.05	< 2.03
4:2 FTS	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.05	< 2.05	< 2.03
6:2 FTS	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.05	< 2.05	< 2.03
8:2 FTS	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.05	< 2.05	< 2.03
EtFOSAA	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.05	< 2.05	2.24 J
MeFOSAA	ng/l	< 2.11	< 2.02	< 2.02	< 2.15	< 2.05	< 2.05	< 2.03
Total PFAS	ng/l	15.02	61.09	65.33	39.83	ND	ND	2.24

Year 1, Quarter 4
Not Sampled

- 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. **BOLD** - Analyte above detection
7. Highlight - Above EGLE Part 201
criteria: 8 ng/L PFOA, or 16 ng/L PFOS

**GSU Monitoring Well Sampling
Year 1, Quarter 4
Iosco County, Michigan
60612721**

Location Well Screen Interval (bgs)	DEQ-CR-MW006					DEQ-LD-MW001				
	20 - 25 ft					10 - 15 ft				
Sample	GW1910081555RAP	GW2001220950MK	GW2004150945RL	GW2007151005RL	GW2007151005RL-FD	GW1910091100RAP	GW2001221215RAP	GW2004151505RL	GW2007151325RL	
Sample Date	10/8/2019	1/22/2020	4/15/2020	7/15/2020	7/15/2020	10/9/2019	1/22/2020	4/15/2020	7/15/2020	
Lab Report	1903623	2000165	2000899	2001522	2001522	1903623	2000165	2000899	2001522	
Compound	Unit	Result	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	5.93	1.67 J	< 2.04	1.79 J
PFPeA	ng/l	2.29 J	< 1.99	< 1.99	< 2.07	< 1.92	4.55	< 2.06	< 2.04	< 1.98
PFHxA	ng/l	3.03 J	< 1.99	< 1.99	< 2.07	< 1.92	6.81	1.66 J	< 2.04	< 1.98
PFHpA	ng/l	1.52 J, Q	< 1.99	< 1.99	< 2.07	< 1.92	2.33 J, Q	< 2.06	< 2.04	< 1.98
PFOA	ng/l	5.64	3.85 J	5.57	3.44 J	3.19 J	3.44 J	3.12 J	2.56 J	3.24 J
PFNA	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 2.07	< 2.06	< 2.04	< 1.98
PFDA	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 2.07	< 2.06	< 2.04	< 1.98
PFUnA	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 2.07	< 2.06	< 2.04	< 1.98
PFDaA	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 2.07	< 2.06	< 2.04	< 1.98
PFTrDA	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 2.07	< 2.06	< 2.04	< 1.98
PFTeDA	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 2.07	< 2.06	< 2.04	< 1.98
11CI-PF3OUdS	ng/l	---	< 1.99	< 1.99	< 2.07	< 1.92	---	< 2.06	< 2.04	< 1.98
9CI-PF3ONS	ng/l	---	< 1.99	< 1.99	< 2.07	< 1.92	---	< 2.06	< 2.04	< 1.98
ADONA	ng/l	---	< 1.99	< 1.99	< 2.07	< 1.92	---	< 2.06	< 2.04	< 1.98
HFPO-DA	ng/l	---	< 2.99	< 2.99	< 3.11	< 2.87	---	< 3.09	< 3.06	< 2.96
PFDS	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 2.07	< 2.06	< 2.04	< 1.98
PFBS	ng/l	< 2.05	1.66 J	1.94 J	< 2.07	< 1.92	3.32 J	2.36 J	2.23 J	2.63 J
PFPeS	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 2.07	< 2.06	< 2.04	< 1.98
PFHxS	ng/l	15.6	12.4	7.55	6.92	6.49	3.33 J	1.82 J	1.71 J	3.53 J
PFHpS	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 2.07	< 2.06	< 2.04	< 1.98
PFOS	ng/l	6.08 Q	7.27	3.79 J	5.96	6.31	2.05 J, Q	2.66 J	< 2.04	2.26 J
PFNS	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 2.07	< 2.06	< 2.04	< 1.98
PFOSA	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 2.07	< 2.06	< 2.04	< 1.98
4:2 FTS	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 2.07	< 2.06	< 2.04	< 1.98
6:2 FTS	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 2.07	< 2.06	< 2.04	< 1.98
8:2 FTS	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 2.07	< 2.06	< 2.04	< 1.98
EtFOSAA	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 2.07	< 2.06	< 2.04	< 1.98
MeFOSAA	ng/l	< 2.05	< 1.99	< 1.99	< 2.07	< 1.92	< 2.07	< 2.06	< 2.04	< 1.98
Total PFAS	ng/l	36.38	27.89	22.02	18.78	18.12	31.76	13.29	6.5	13.45

Footnotes:
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criteria: 8 ng/L PFOA, or 16 ng/L PFOS

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60612721**

Location Well Screen Interval (bgs)	DEQ-LD-MW003					DEQ-LD-MW005			
	10-15 ft					5 - 10 ft			
	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	
GW1910091215RAP	GW2001221350RAP	GW2004151350RL	FD2004151350RL	GW2007151240RL	GW1910081710RAP	GW2001221650RAP	GW2004151605RL		
10/9/2019	1/22/2020	4/15/2020	4/15/2020	7/15/2020	10/8/2019	1/22/2020	4/15/2020		
1903623	2000165	2000899	2000899	2001522	1903623	2000166	2000906		
Compound	Unit	Result	Result	Result	Result	Result	Result	Result	
PFBA	ng/l	< 2.17	3.43 J	2.83 J	3.02 J	3.45 J	14.5	13.1	11.9
PFPeA	ng/l	1.7 J	6.97	4.5	5.25	7.06	< 2.16	< 2.01	< 2.02
PFHxA	ng/l	2.56 J	7.95	4.96	4.59 Q	6.63	< 2.16	< 2.01	< 2.02
PFHpA	ng/l	< 2.17	2.22 J	1.72 J, Q	1.58 J, Q	< 2.07	< 2.16	< 2.01	< 2.02
PFOA	ng/l	2.57 J	6.25	4.09	4.68	4.4	2.77 J	2.6 J	2.78 J
PFNA	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.16	< 2.01	< 2.02
PFDA	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.16	< 2.01	< 2.02
PFUnA	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.16	< 2.01	< 2.02
PFDoA	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.16	< 2.01	< 2.02
PFTrDA	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.16	< 2.01	< 2.02
PFTeDA	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.16	< 2.01	< 2.02
11CI-PF3OUdS	ng/l	---	< 2.01	< 2.02	< 2.02	< 2.07	---	< 2.01	< 2.02
9CI-PF3ONS	ng/l	---	< 2.01	< 2.02	< 2.02	< 2.07	---	< 2.01	< 2.02
ADONA	ng/l	---	< 2.01	< 2.02	< 2.02	< 2.07	---	< 2.01	< 2.02
HFPO-DA	ng/l	---	< 3.01	< 3.02	< 3.02	< 3.10	---	< 3.01	< 3.04
PFDS	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.16	< 2.01	< 2.02
PFBS	ng/l	1.66 J	2.73 J	2.3 J	2.64 J, Q	3.29 J	9.29	7.79	10.3
PFPeS	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.16	< 2.01	< 2.02
PFHxS	ng/l	< 2.17	2.36 J	1.4 J	1.57 J	2.23 J	4.96	9.49	6.28
PFHpS	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.16	< 2.01	< 2.02
PFOS	ng/l	< 2.17	2.6 J	< 2.02	< 2.02	< 2.07	3.1 J, Q	3.08 J	2.51 J
PFNS	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.16	< 2.01	< 2.02
PFOSA	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.16	< 2.01	< 2.02
4:2 FTS	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.16	< 2.01	< 2.02
6:2 FTS	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.16	< 2.01	< 2.02
8:2 FTS	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.16	< 2.01	< 2.02
EtFOSAA	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.16	< 2.01	< 2.02
MeFOSAA	ng/l	< 2.17	< 2.01	< 2.02	< 2.02	< 2.07	< 2.16	< 2.01	< 2.02
Total PFAS	ng/l	8.49	34.51	21.8	23.33	27.06	34.62	36.06	33.77

Year 1, Quarter 4
Not Sampled

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1. bgs - Below ground surface
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5. < 2.05 - Result below detection limit
6. **BOLD** - Analyte above detection
7. Highlight - Above EGLE Part 201
criteria: 8 ng/L PFOA, or 16 ng/L PFOS

GSU Monitoring Well Sampling
Year 1, Quarter 4
Iosco County, Michigan
60612721

Location Well Screen Interval (bgs)	DEQ-RR-MW003				DEQ-RR-MW004				DEQ-RR-MW005			
	12 - 17 ft				17 - 22 ft				13 - 18 ft			
	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date
GW1910081440GSC	GW2001231315MK	GW2004141105GSC	GW1910090950GSC	GW2001231225MK	GW2004141140GSC	GW2007151245GSC	GW1910081530GSC	GW2001231425MK	GW2004141340GSC	GW2007151140GSC		
10/8/2019	1/23/2020	4/14/2020	10/9/2019	1/23/2020	4/14/2020	7/15/2020	10/8/2019	1/23/2020	4/14/2020	7/15/2020		
1903623	2000166	2000899	1903623	2000166	2000899	2001522	1903623	2000166	2000899	2001522		
Compound	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PFBA	ng/l	2.09 J	2.38 J	< 1.99	1.49 J	9.59	6.1	4.05	23.5	7.92	24.1	174
PFPeA	ng/l	< 2.02	< 2.02	< 1.99	< 2.09	2.66 J	3.07 J	1.82 J	22.6	13.1	14.7	502
PFHxA	ng/l	< 2.02	< 2.02	< 1.99	< 2.09	1.91 J	1.67 J, Q	< 2.01	13.7	9.27	10.6	215
PFHpA	ng/l	< 2.02	< 2.02	< 1.99	< 2.09	1.41 J	< 2.03	< 2.01	1.62 J	1.99 J, Q	1.93 J, Q	18.7
PFOA	ng/l	< 2.02	< 2.02	< 1.99	< 2.09	3.96 J	2.88 J	2.00 J	4.36	8.96	5.17	33.7
PFNA	ng/l	< 2.02	< 2.02	< 1.99	< 2.09	< 2.02	< 2.03	< 2.01	< 2.03	< 2.12	< 1.97	6.13
PFDA	ng/l	< 2.02	< 2.02	< 1.99	< 2.09	< 2.02	< 2.03	< 2.01	< 2.03	< 2.12	< 1.97	6.86
PFUnA	ng/l	< 2.02	< 2.02	< 1.99	< 2.09	< 2.02	< 2.03	< 2.01	< 2.03	< 2.12	< 1.97	< 2.10
PFDaA	ng/l	< 2.02	< 2.02	< 1.99	< 2.09	< 2.02	< 2.03	< 2.01	< 2.03	< 2.12	< 1.97	< 2.10
PFTTrDA	ng/l	< 2.02	< 2.02	< 1.99	< 2.09	< 2.02	< 2.03	< 2.01	< 2.03	< 2.12	< 1.97	< 2.10
PFTeDA	ng/l	< 2.02	< 2.02	< 1.99	< 2.09	< 2.02	< 2.03	< 2.01	< 2.03	< 2.12	< 1.97	< 2.10
11CI-PF3OUdS	ng/l	---	< 2.02	< 1.99	---	< 2.02	< 2.03	< 2.01	---	< 2.12	< 1.97	< 2.10
9CI-PF3ONS	ng/l	---	< 2.02	< 1.99	---	< 2.02	< 2.03	< 2.01	---	< 2.12	< 1.97	< 2.10
ADONA	ng/l	---	< 2.02	< 1.99	---	< 2.02	< 2.03	< 2.01	---	< 2.12	< 1.97	< 2.10
HFPO-DA	ng/l	---	< 3.02	< 2.99	---	< 3.02	< 3.05	< 3.01	---	< 3.18	< 2.95	< 3.15
PFDS	ng/l	< 2.02	< 2.02	< 1.99	< 2.09	< 2.02	< 2.03	< 2.01	3.16 J	4.32	4.87	11.2 Q
PFBS	ng/l	47.6	8.68	< 1.99	99.1	103	399	611	328	93.7	357	819
PFPeS	ng/l	< 2.02	< 2.02	< 1.99	< 2.09	< 2.02	< 2.03	< 2.01	< 2.03	< 2.12	< 1.97	< 2.10
PFHxS	ng/l	< 2.02	< 2.02	< 1.99	< 2.09	2.87 J	1.69 J	< 2.01	1.98 J	< 2.12	< 1.97	2.14 J
PFHpS	ng/l	< 2.02	< 2.02	< 1.99	< 2.09	< 2.02	< 2.03	< 2.01	< 2.03	< 2.12	< 1.97	< 2.10
PFOS	ng/l	< 2.02	1.87 J	< 1.99	11	18.9	27.5	9.86	39.7	46.5	21.3	150
PFNS	ng/l	< 2.02	< 2.02	< 1.99	< 2.09	< 2.02	< 2.03	< 2.01	< 2.03	< 2.12	< 1.97	< 2.10
PFOSA	ng/l	< 2.02	< 2.02	< 1.99	< 2.09	< 2.02	< 2.03	< 2.01	24	12.6	17.1	30.1
4:2 FTS	ng/l	< 2.02	< 2.02	< 1.99	< 2.09	< 2.02	< 2.03	< 2.01	< 2.03	< 2.12	< 1.97	< 2.10
6:2 FTS	ng/l	< 2.02	< 2.02	< 1.99	< 2.09	< 2.02	< 2.03	< 2.01	< 2.03	< 2.12	< 1.97	4.93
8:2 FTS	ng/l	< 2.02	< 2.02	< 1.99	< 2.09	< 2.02	< 2.03	< 2.01	< 2.03	< 2.12	< 1.97	< 2.10
EtFOSAA	ng/l	< 2.02	< 2.02	< 1.99	< 2.09	< 2.02	< 2.03	< 2.01	< 2.03	3.48 J	5.94	7.63
MeFOSAA	ng/l	< 2.02	< 2.02	< 1.99	< 2.09	< 2.02	< 2.03	< 2.01	< 2.03	< 2.12	< 1.97	< 2.10
Total PFAS	ng/l	49.69	12.93	ND	111.59	144.3	441.91	628.73	462.62	201.84	462.71	1981.4

Year 1, Quarter 4
Not Sampled

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. **BOLD** - Analyte above detection
7. Highlight - Above EGLE Part 201
criteria: 8 ng/L PFOA, or 16 ng/L PFOS

**GSU Monitoring Well Sampling
Year 1, Quarter 4
Iosco County, Michigan
60612721**

Location Well Screen Interval (bgs)	DEQ-RR-MW006 11 - 16 ft				DEQ-RR-MW007 10 - 15 ft				DEQ-RR-MW008 8 - 13 ft				
	GW1910091040GSC	GW2001231110MK	GW2004141240GSC	GW2007151210GSC	GW1910081655GSC	GW2001231000MK	GW2004141420GSC	GW2007151005GSC	GW1910081610GSC	GW2001231455RAP	GW2004141505GSC	GW2007151055GSC	
	Sample Date 10/9/2019 Lab Report 1903623	1/23/2020 2000166	4/14/2020 2000899	7/15/2020 2001522	10/8/2019 1903623	1/23/2020 2000166	4/14/2020 2000899	7/15/2020 2001522	10/8/2019 1903623	1/23/2020 2000166	4/14/2020 2000899	7/15/2020 2001522	
Compound	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	
PFBA	ng/l	3.43 J	2.2 J	< 2.06	< 2.07	1.66 J	2.48 J	< 1.95	< 2.01	9.53	3.3 J	4.2	3.4 J
PFPeA	ng/l	3.36 J	2.73 J	< 2.06	< 2.07	< 2.12	< 2.11	< 1.95	< 2.01	41.1	16.1	12.1	10.1
PFHxA	ng/l	3.1 J	2.52 J	< 2.06	< 2.07	< 2.12	< 2.11	< 1.95	< 2.01	23.3	10.6	12.5	11.1
PFHpA	ng/l	< 2.05	< 2.00	< 2.06	< 2.07	< 2.12	< 2.11	1.77 J	< 2.01	4.93	2.02 J, Q	3.59 J	< 2.04
PFOA	ng/l	1.57 J	1.4 J	< 2.06	< 2.07	5.65	6.7	6.73	4.18	16.8	16	13.9	10.1
PFNA	ng/l	< 2.05	< 2.00	< 2.06	< 2.07	< 2.12	< 2.11	< 1.95	< 2.01	< 2.16	< 2.05	< 1.98	< 2.04
PFDA	ng/l	< 2.05	< 2.00	< 2.06	< 2.07	< 2.12	< 2.11	< 1.95	< 2.01	< 2.16	< 2.05	< 1.98	< 2.04
PFUnA	ng/l	< 2.05	< 2.00	< 2.06	< 2.07	< 2.12	< 2.11	< 1.95	< 2.01	< 2.16	< 2.05	< 1.98	< 2.04
PFDaA	ng/l	< 2.05	< 2.00	< 2.06	< 2.07	< 2.12	< 2.11	< 1.95	< 2.01	< 2.16	< 2.05	< 1.98	< 2.04
PFTrDA	ng/l	< 2.05	< 2.00	< 2.06	< 2.07	< 2.12	< 2.11	< 1.95	< 2.01	< 2.16	< 2.05	< 1.98	< 2.04
PFTeDA	ng/l	< 2.05	< 2.00	< 2.06	< 2.07	< 2.12	< 2.11	< 1.95	< 2.01	< 2.16	< 2.05	< 1.98	< 2.04
11CI-PF3OUdS	ng/l	---	< 2.00	< 2.06	< 2.07	---	< 2.11	< 1.95	< 2.01	---	< 2.05	< 1.98	< 2.04
9CI-PF3ONS	ng/l	---	< 2.00	< 2.06	< 2.07	---	< 2.11	< 1.95	< 2.01	---	< 2.05	< 1.98	< 2.04
ADONA	ng/l	---	< 2.00	< 2.06	< 2.07	---	< 2.11	< 1.95	< 2.01	---	< 2.05	< 1.98	< 2.04
HFPO-DA	ng/l	---	< 3.00	< 3.09	< 3.11	---	< 3.16	< 2.93	< 3.01	---	< 3.07	< 2.96	< 3.06
PFDS	ng/l	< 2.05	< 2.00	< 2.06	< 2.07	< 2.12	< 2.11	< 1.95	< 2.01	< 2.16	< 2.05	< 1.98	< 2.04
PFBS	ng/l	< 2.05	< 2.00	< 2.06	< 2.07	< 2.12	< 2.11	< 1.95	< 2.01	14	22.9	51.6	10.5
PFPeS	ng/l	< 2.05	< 2.00	< 2.06	< 2.07	< 2.12	< 2.11	< 1.95	< 2.01	< 2.16	< 2.05	< 1.98	< 2.04
PFHxS	ng/l	1.79 J	2.03 J	< 2.06	1.75 J	1.64 J	3.36 J	3.42 J	1.87 J	5.98	4.94	5.34	3.28 J
PFHpS	ng/l	< 2.05	< 2.00	< 2.06	< 2.07	< 2.12	< 2.11	< 1.95	< 2.01	< 2.16	< 2.05	< 1.98	< 2.04
PFOS	ng/l	6	8.72	3.36 J	< 2.07	41.4	35.9	57.9	39.7	11.6	16	8.56	11.7
PFNS	ng/l	< 2.05	< 2.00	< 2.06	< 2.07	< 2.12	< 2.11	< 1.95	< 2.01	< 2.16	< 2.05	< 1.98	< 2.04
PFOSA	ng/l	< 2.05	< 2.00	< 2.06	< 2.07	< 2.12	< 2.11	< 1.95	< 2.01	< 2.16	< 2.05	< 1.98	< 2.04
4:2 FTS	ng/l	< 2.05	< 2.00	< 2.06	< 2.07	< 2.12	< 2.11	< 1.95	< 2.01	< 2.16	< 2.05	< 1.98	< 2.04
6:2 FTS	ng/l	< 2.05	< 2.00	< 2.06	< 2.07	< 2.12	< 2.11	< 1.95	< 2.01	< 2.16	< 2.05	< 1.98	< 2.04
8:2 FTS	ng/l	< 2.05	< 2.00	< 2.06	< 2.07	< 2.12	< 2.11	< 1.95	< 2.01	< 2.16	< 2.05	< 1.98	< 2.04
EtFOSAA	ng/l	< 2.05	< 2.00	< 2.06	< 2.07	< 2.12	< 2.11	< 1.95	< 2.01	< 2.16	< 2.05	< 1.98	< 2.04
MeFOSAA	ng/l	< 2.05	< 2.00	< 2.06	< 2.07	< 2.12	< 2.11	< 1.95	< 2.01	< 2.16	< 2.05	< 1.98	< 2.04
Total PFAS	ng/l	19.25	19.6	3.36	1.75	50.35	48.44	69.82	45.75	127.24	91.86	111.79	60.18

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. **BOLD** - Analyte above detection
7. Highlight - Above EGLE Part 201
criteria: 8 ng/L PFOA, or 16 ng/L PFOS

GSU Monitoring Well Sampling
Year 1, Quarter 4
Iosco County, Michigan
60612721

Location Well Screen Interval (bgs)	RI-MW003				RI-MW004			
	2 - 7 ft				5 - 10 ft			
Sample	GW1910091430RAP	GW2001221710MK	GW2004151325GSC	GW2007151830RL	Year 1, Quarter 1 Not Sampled	Year 1, Quarter 2 Not Sampled	Year 1, Quarter 3 Not Sampled	GW2007151735RL
Sample Date	10/9/2019	1/22/2020	4/15/2020	7/15/2020				7/15/2020
Lab Report	1903624	2000166	2000899	2001522				2001522
Compound	Unit	Result	Result	Result				Result
PFBA	ng/l	8.98	3.04 J	6.27	9.96			2.49 J
PFPeA	ng/l	7.18	2.02 J	5.77	13.5			< 2.02
PFHxA	ng/l	8.7	2.87 J	5.73 Q	15.5			< 2.02
PFHpA	ng/l	2.87 J, Q	< 2.02	1.37 J, Q	3.61 J			< 2.02
PFOA	ng/l	8.7	3.54 J	3.45 J	7.42			< 2.02
PFNA	ng/l	1.59 J	< 2.02	< 2.00	1.87 J			< 2.02
PFDA	ng/l	< 2.07	< 2.02	< 2.00	< 1.99			< 2.02
PFUnA	ng/l	< 2.07	< 2.02	< 2.00	< 1.99			< 2.02
PFDoA	ng/l	< 2.07	< 2.02	< 2.00	< 1.99			< 2.02
PFTTrDA	ng/l	< 2.07	< 2.02	< 2.00	< 1.99			< 2.02
PFTeDA	ng/l	< 2.07	< 2.02	< 2.00	< 1.99			< 2.02
11CI-PF3OUdS	ng/l	---	< 2.02	< 2.00	< 1.99			< 2.02
9CI-PF3ONS	ng/l	---	< 2.02	< 2.00	< 1.99			< 2.02
ADONA	ng/l	---	< 2.02	< 2.00	< 1.99			< 2.02
HFPO-DA	ng/l	---	< 3.02	< 3.00	< 2.99			< 3.04
PFDS	ng/l	< 2.07	< 2.02	< 2.00	< 1.99			< 2.02
PFBS	ng/l	3.05 J	< 2.02	2.52 J	3.8 J			< 2.02
PFPeS	ng/l	< 2.07	< 2.02	< 2.00	< 1.99			< 2.02
PFHxS	ng/l	4.55	1.45 J	1.66 J	5.17			< 2.02
PFHpS	ng/l	< 2.07	< 2.02	< 2.00	< 1.99			< 2.02
PFOS	ng/l	3.75 J	3.76 J	2.26 J	7.6			< 2.02
PFNS	ng/l	< 2.07	< 2.02	< 2.00	< 1.99			< 2.02
PFOSA	ng/l	< 2.07	< 2.02	< 2.00	< 1.99			< 2.02
4:2 FTS	ng/l	< 2.07	< 2.02	< 2.00	< 1.99			< 2.02
6:2 FTS	ng/l	< 2.07	< 2.02	< 2.00	< 1.99			< 2.02
8:2 FTS	ng/l	< 2.07	< 2.02	< 2.00	< 1.99			< 2.02
EtFOSAA	ng/l	< 2.07	< 2.02	< 2.00	< 1.99			< 2.02
MeFOSAA	ng/l	< 2.07	< 2.02	< 2.00	< 1.99			< 2.02
Total PFAS	ng/l	49.37	16.68	29.03	68.43			2.49

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. **BOLD** - Analyte above detection
7. Highlight - Above EGLE Part 201
criteria: 8 ng/L PFOA, or 16 ng/L PFOS

**GSU Monitoring Well Sampling
Year 1, Quarter 4
Iosco County, Michigan
60612721**

Location Well Screen Interval (bgs)	RI-MW007 39 - 40 ft						RI-MW008 27.5 - 28.5 ft				
	Sample	GW1910090935RAP	GW1910090935RAP-FD	GW2001221255MK	GW2001221255MK-FD	GW2004151110GSC	GW2007160910RL	GW1910091525RAP	GW2001221500RAP	GW2004151005GSC	GW2007160945RL
	Sample Date Lab Report	10/9/2019 1903624	10/9/2019 1903624	1/22/2020 2000165	1/22/2020 2000165	4/15/2020 2000899	7/16/2020 2001523	10/9/2019 1903624	1/22/2020 2000165	4/15/2020 2000899	7/16/2020 2001523
Compound	Unit	Result	Result	Result	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	1.98 J	3.7 J	1.56 J	1.85 J
PFPeA	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	2.67 J	5.26	4.63	4.37
PFHxA	ng/l	< 2.13	< 2.02	1.76 J	< 2.07	1.52 J, Q	< 2.00	4.14	10.2	8.88	6.9
PFHpA	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	1.46 J, Q	4.48 Q	4.54	4.19
PFOA	ng/l	< 2.13	< 2.02	1.9 J	1.74 J	1.73 J	< 2.00	3.08 J	6.05	4.03	3.95 J
PFNA	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03
PFDA	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03
PFUnA	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03
PFDoA	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03
PFTrDA	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03
PFTeDA	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03
11CI-PF3OUdS	ng/l	---	---	< 2.08	< 2.07	< 1.99	< 2.00	---	< 1.98	< 1.96	< 2.03
9CI-PF3ONS	ng/l	---	---	< 2.08	< 2.07	< 1.99	< 2.00	---	< 1.98	< 1.96	< 2.03
ADONA	ng/l	---	---	< 2.08	< 2.07	< 1.99	< 2.00	---	< 1.98	< 1.96	< 2.03
HFPO-DA	ng/l	---	---	< 3.13	< 3.11	< 2.99	< 3.00	---	< 2.98	< 2.94	< 3.05
PFDS	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03
PFBS	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03
PFPeS	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.02	1.56 J, Q	1.54 J, Q	< 2.03
PFHxS	ng/l	3.65 J	3.02 J	5.84	5.64	4.47	3.31 J	4.22	7.91	7	7.59
PFHpS	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03
PFOS	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03
PFNS	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03
PFOSA	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03
4:2 FTS	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03
6:2 FTS	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03
8:2 FTS	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03
EtFOSAA	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03
MeFOSAA	ng/l	< 2.13	< 2.02	< 2.08	< 2.07	< 1.99	< 2.00	< 2.02	< 1.98	< 1.96	< 2.03
Total PFAS	ng/l	3.65	3.02	12.09	10.06	10.03	5.12	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. **BOLD** - Analyte above detection
7. Highlight - Above EGLE Part 201
criteria: 8 ng/L PFOA, or 16 ng/L PFOS

**GSU Monitoring Well Sampling
Year 1, Quarter 4
Iosco County, Michigan
60612721**

Location Well Screen Interval (bgs)	RI-MW024 17 - 18 ft						RI-MW024 26 - 27 ft			
	GW1910100900GSC	GW1910100900GSC-FD	GW2004141605GSC	GW2007151400GSC	GW2007151400GSC-F	GW1910100945GSC	GW2001231215RAP	GW2004141640GSC		
Sample Date	10/10/2019	10/10/2019	4/14/2020	7/15/2020	7/15/2020	10/10/2019	1/23/2020	4/14/2020		
Lab Report	1903624	1903624	2000899	2001522	2001522	1903624	2000166	2000899		
Compound	Unit	Result	Result	Result	Result	Result	Result	Result		
PFBA	ng/l	< 2.07	< 2.02	3.55 J	< 1.97	< 2.04	< 2.02	< 1.96	< 1.99	
PFPeA	ng/l	< 2.07	< 2.02	1.67 J	< 1.97	< 2.04	2 J	< 1.96	2.36 J	
PFHxA	ng/l	< 2.07	< 2.02	2.55 J, Q	< 1.97	< 2.04	3.88 J	2.33 J, Q	3.61 J	
PFHpA	ng/l	< 2.07	< 2.02	< 1.99	< 1.97	< 2.04	2.04 J, Q	< 1.96	< 1.99	
PFOA	ng/l	2.31 J	2.5 J	3.96 J	1.57 J	< 2.04	1.65 J	2.77 J	3.07 J	
PFNA	ng/l	< 2.07	< 2.02	< 1.99	< 1.97	< 2.04	< 2.02	< 1.96	< 1.99	
PFDA	ng/l	< 2.07	< 2.02	< 1.99	< 1.97	< 2.04	< 2.02	< 1.96	< 1.99	
PFUnA	ng/l	< 2.07	< 2.02	< 1.99	< 1.97	< 2.04	< 2.02	< 1.96	< 1.99	
PFDaA	ng/l	< 2.07	< 2.02	< 1.99	< 1.97	< 2.04	< 2.02	< 1.96	< 1.99	
PFTTrDA	ng/l	< 2.07	< 2.02	< 1.99	< 1.97	< 2.04	< 2.02	< 1.96	< 1.99	
PFTeDA	ng/l	< 2.07	< 2.02	< 1.99	< 1.97	< 2.04	< 2.02	< 1.96	< 1.99	
11CI-PF3OUdS	ng/l	---	---	< 1.99	< 1.97	< 2.04	---	< 1.96	< 1.99	
9CI-PF3ONS	ng/l	---	---	< 1.99	< 1.97	< 2.04	---	< 1.96	< 1.99	
ADONA	ng/l	---	---	< 1.99	< 1.97	< 2.04	---	< 1.96	< 1.99	
HFPO-DA	ng/l	---	---	< 2.99	< 2.95	< 3.06	---	< 2.94	< 2.99	
PFDS	ng/l	< 2.07	< 2.02	< 1.99	< 1.97	< 2.04	< 2.02	< 1.96	< 1.99	
PFBS	ng/l	8.07	7.91	15.3	5.49	4.5	3.98 J	2.69 J	3.74 J, Q	
PFPeS	ng/l	< 2.07	< 2.02	< 1.99	< 1.97	< 2.04	< 2.02	< 1.96	< 1.99	
PFHxS	ng/l	< 2.07	< 2.02	< 1.99	< 1.97	< 2.04	7.07	1.49 J	1.7 J	
PFHpS	ng/l	< 2.07	< 2.02	< 1.99	< 1.97	< 2.04	< 2.02	< 1.96	< 1.99	
PFOS	ng/l	< 2.07	< 2.02	< 1.99	< 1.97	< 2.04	< 2.02	< 1.96	< 1.99	
PFNS	ng/l	< 2.07	< 2.02	< 1.99	< 1.97	< 2.04	< 2.02	< 1.96	< 1.99	
PFOSA	ng/l	< 2.07	< 2.02	< 1.99	< 1.97	< 2.04	< 2.02	< 1.96	< 1.99	
4:2 FTS	ng/l	< 2.07	< 2.02	< 1.99	< 1.97	< 2.04	< 2.02	< 1.96	< 1.99	
6:2 FTS	ng/l	< 2.07	< 2.02	< 1.99	< 1.97	< 2.04	< 2.02	< 1.96	< 1.99	
8:2 FTS	ng/l	< 2.07	< 2.02	< 1.99	< 1.97	< 2.04	< 2.02	< 1.96	< 1.99	
EtFOSAA	ng/l	< 2.07	< 2.02	< 1.98	< 1.97	< 2.04	< 2.02	< 1.96	< 1.99	
MeFOSAA	ng/l	< 2.07	< 2.02	< 1.99	< 1.97	< 2.04	< 2.02	< 1.96	< 1.99	
Total PFAS	ng/l	10.38	10.41	27.03	7.06	4.5	20.62	9.28	14.48	

Year 1, Quarter 2
Not Sampled

Year 1, Quarter 4
Not Sampled

- 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. **BOLD** - Analyte above detection
7. Highlight - Above EGLE Part 201
criteria: 8 ng/L PFOA, or 16 ng/L PFOS

GSU Monitoring Well Sampling
Year 1, Quarter 4
Iosco County, Michigan
60612721

Location		RI-MW025			RI-MW026			RI-MW028			
Well Screen Interval (bgs)		5.5 - 10.5 ft			32 - 33 ft			5 - 10 ft			
Sample Date											
Lab Report											
Compound	Unit										
PFBA	ng/l				GW2007151315GSC 7/15/2020 2001522	GW2001231320RAP 1/23/2020 2000166	GW2007151440GSC 7/15/2020 2001522				GW2007151515GSC 7/15/2020 2001522
					Result	Result	Result				Result
PFBA	ng/l				3.59 J	1.85 J	< 2.10				< 2.03
PFPeA	ng/l				< 2.07	5.01	2.52 J				< 2.03
PFHxA	ng/l				< 2.07	5.25	2.94 J				< 2.03
PFHpA	ng/l				< 2.07	5.43	3.35 J				1.77 J
PFOA	ng/l				1.83 J	16.8	12.9				2.34 J
PFNA	ng/l				< 2.07	< 1.99	< 2.10				< 2.03
PFDA	ng/l				< 2.07	< 1.99	< 2.10				< 2.03
PFUnA	ng/l				< 2.07	< 1.99	< 2.10				< 2.03
PFDoA	ng/l				< 2.07	< 1.99	< 2.10				< 2.03
PFTTrDA	ng/l				< 2.07	< 1.99	< 2.10				< 2.03
PFTeDA	ng/l				< 2.07	< 1.99	< 2.10				< 2.03
11CI-PF3OUdS	ng/l				< 2.07	< 1.99	< 2.10				< 2.03
9CI-PF3ONS	ng/l	Year 1, Quarter 1 Not Sampled	Year 1, Quarter 2 Not Sampled	Year 1, Quarter 3 Not Sampled	< 2.07	< 1.99	< 2.10	Year 1, Quarter 1 Not Sampled	Year 1, Quarter 2 Not Sampled	Year 1, Quarter 3 Not Sampled	< 2.03
ADONA	ng/l				< 2.07	< 1.99	< 2.10				< 2.03
HFPO-DA	ng/l				< 3.11	< 2.99	< 3.15				< 3.05
PFDS	ng/l				< 2.07	< 1.99	< 2.10				< 2.03
PFBS	ng/l				< 2.07	< 1.99	< 2.10				< 2.03
PFPeS	ng/l				< 2.07	< 1.99	< 2.10				< 2.03
PFHxS	ng/l				< 2.07	6.64	4.15 J				10.5
PFHpS	ng/l				< 2.07	< 1.99	< 2.10				< 2.03
PFOS	ng/l				< 2.07	< 1.99	< 2.10				7.39
PFNS	ng/l				< 2.07	< 1.99	< 2.10				< 2.03
PFOSA	ng/l				< 2.07	< 1.99	< 2.10				< 2.03
4:2 FTS	ng/l				< 2.07	< 1.99	< 2.10				< 2.03
6:2 FTS	ng/l				< 2.07	< 1.99	< 2.10				< 2.03
8:2 FTS	ng/l				< 2.07	< 1.99	< 2.10				< 2.03
EtFOSAA	ng/l				< 2.07	< 1.99	< 2.10				< 2.03
MeFOSAA	ng/l				< 2.07	< 1.99	< 2.10				< 2.03
Total PFAS	ng/l				5.42	40.98	25.86				22

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. **BOLD** - Analyte above detection
7. Highlight - Above EGLE Part 201 criteria: 8 ng/L PFOA, or 16 ng/L PFOS

GSU Monitoring Well Sampling
Year 1, Quarter 4
Iosco County, Michigan
60612721

Location Well Screen Interval (bgs)	RI-MW030				RI-MW032			
	24 - 25 ft				18 - 23 ft			
	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date
GW1910101025RAP	GW2001230915RAP	GW2004141735GSC	GW1910091630RAP	GW2001221530MK	GW2004150915GSC	GW2007151700GSC		
10/10/2019	1/23/2020	4/14/2020	10/9/2019	1/22/2020	4/15/2020	7/15/2020		
1903624	2000166	2000899	1903624	2000166	2000899	2001522		
Compound	Unit	Result	Result	Result	Result	Result	Result	Result
PFBA	ng/l	< 2.28	4.77	4.33	6.72	8.18	5.64	8.09
PFPeA	ng/l	< 2.28	< 2.05	< 2.08	9.72	15.1	11.2	13
PFHxA	ng/l	< 2.28	< 2.05	< 2.08	13.4	20.4	19.2	20.3
PFHpA	ng/l	< 2.28	< 2.05	< 2.08	3.87 J	5.84	6.59	8.73
PFOA	ng/l	< 2.28	< 2.05	< 2.08	11.3	15.9	17.9	19.8
PFNA	ng/l	< 2.28	< 2.05	< 2.08	< 2.16	< 2.04	< 2.02	< 2.07
PFDA	ng/l	< 2.28	< 2.05	< 2.08	< 2.16	< 2.04	< 2.02	< 2.07
PFUnA	ng/l	< 2.28	< 2.05	< 2.08	< 2.16	< 2.04	< 2.02	< 2.07
PFDoA	ng/l	< 2.28	< 2.05	< 2.08	< 2.16	< 2.04	< 2.02	< 2.07
PFTTrDA	ng/l	< 2.28	< 2.05	< 2.08	< 2.16	< 2.04	< 2.02	< 2.07
PFTeDA	ng/l	< 2.28	< 2.05	< 2.08	< 2.16	< 2.04	< 2.02	< 2.07
11CI-PF3OUdS	ng/l	---	< 2.05	< 2.08	---	< 2.04	< 2.02	< 2.07
9CI-PF3ONS	ng/l	---	< 2.05	< 2.08	---	< 2.04	< 2.02	< 2.07
ADONA	ng/l	---	< 2.05	< 2.08	---	< 2.04	< 2.02	< 2.07
HFPO-DA	ng/l	---	< 3.07	< 3.13	---	< 3.06	< 3.02	< 3.10
PFDS	ng/l	< 2.28	< 2.05	< 2.08	< 2.16	< 2.04	< 2.02	< 2.07
PFBS	ng/l	< 2.28	< 2.05	< 2.08	23.8	27.6	23.8	25.6
PFPeS	ng/l	< 2.28	< 2.05	< 2.08	1.52 J	3.38 J	2.92 J	3.13 J
PFHxS	ng/l	< 2.28	< 2.05	< 2.08	44.3	75.2	71.6	88.3
PFHpS	ng/l	< 2.28	< 2.05	< 2.08	< 2.16	< 2.04	< 2.02	< 2.07
PFOS	ng/l	< 2.28	2.27 J	< 2.08	1.96 J, Q	3.21 J	< 2.02	2.15 J
PFNS	ng/l	< 2.28	< 2.05	< 2.08	< 2.16	< 2.04	< 2.02	< 2.07
PFOSA	ng/l	< 2.28	< 2.05	< 2.08	< 2.16	< 2.04	< 2.02	< 2.07
4:2 FTS	ng/l	< 2.28	< 2.05	< 2.08	< 2.16	< 2.04	< 2.02	< 2.07
6:2 FTS	ng/l	< 2.28	< 2.05	< 2.08	< 2.16	< 2.04	< 2.02	< 2.07
8:2 FTS	ng/l	< 2.28	< 2.05	< 2.08	< 2.16	< 2.04	< 2.02	< 2.07
EtFOSAA	ng/l	< 2.28	< 2.05	< 2.08	< 2.16	< 2.04	< 2.02	< 2.07
MeFOSAA	ng/l	< 2.28	< 2.05	< 2.08	< 2.16	< 2.04	< 2.02	< 2.07
Total PFAS	ng/l	ND	7.04	4.33	116.59	174.81	158.85	189.1

Year 1, Quarter 4
Not Sampled

- 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. **BOLD** - Analyte above detection
 7. Highlight - Above EGLE Part 201 criteria: 8 ng/L PFOA, or 16 ng/L PFOS

GSU Monitoring Well Sampling
Year 1, Quarter 4
Iosco County, Michigan
60612721

Location Well Screen Interval (bgs)	RI-MW033 13 - 18 ft				RI-MW034 7.5 - 12.5 ft				
	Sample Sample Date Lab Report	GW1910100915RAP 10/10/2019 1903624	GW2001221440MK 1/22/2020 2000165	GW2004150830GSC 4/15/2020 2000899	GW2007151730GSC 7/15/2020 2001522				GW2007151800GSC 7/15/2020 2001522
Compound	Unit	Result	Result	Result	Result				Result
PFBA	ng/l	2.43 J	5.68	6.51	3.45 J				1.88 J
PFPeA	ng/l	1.51 J	< 2.02	1.85 J	3.42 J				< 2.02
PFHxA	ng/l	1.53 J	1.9 J, Q	5.91	4.71				< 2.02
PFHpA	ng/l	< 2.09	1.68 J	3.3 J	4.68				< 2.02
PFOA	ng/l	8.14	10.6	14	17				< 2.02
PFNA	ng/l	< 2.09	< 2.02	< 1.98	< 2.05				< 2.02
PFDA	ng/l	< 2.09	< 2.02	< 1.98	< 2.05				< 2.02
PFUnA	ng/l	< 2.09	< 2.02	< 1.98	< 2.05				< 2.02
PFDaA	ng/l	< 2.09	< 2.02	< 1.98	< 2.05				< 2.02
PFTTrDA	ng/l	< 2.09	< 2.02	< 1.98	< 2.05				< 2.02
PFTeDA	ng/l	< 2.09	< 2.02	< 1.98	< 2.05				< 2.02
11CI-PF3OUdS	ng/l	---	< 2.02	< 1.98	< 2.05	Year 1, Quarter 1 Not Sampled	Year 1, Quarter 2 Not Sampled	Year 1, Quarter 3 Not Sampled	< 2.02
9CI-PF3ONS	ng/l	---	< 2.02	< 1.98	< 2.05				< 2.02
ADONA	ng/l	---	< 2.02	< 1.98	< 2.05				< 2.02
HFPO-DA	ng/l	---	< 3.02	< 2.96	< 3.07				< 3.02
PFDS	ng/l	< 2.09	< 2.02	< 1.98	< 2.05				< 2.02
PFBS	ng/l	3.35 J	2.61 J	6.11	2.97 J				1.79 J
PFPeS	ng/l	< 2.09	< 2.02	< 1.98	< 2.05				< 2.02
PFHxS	ng/l	35.9	26.5	22.8	22.3				2.65 J
PFHpS	ng/l	< 2.09	< 2.02	< 1.98	< 2.05				< 2.02
PFOS	ng/l	3.86 J	4.96	< 1.98	4.28				3.37 J
PFNS	ng/l	< 2.09	< 2.02	< 1.98	< 2.05				< 2.02
PFOSA	ng/l	< 2.09	< 2.02	< 1.98	< 2.05				< 2.02
4:2 FTS	ng/l	< 2.09	< 2.02	< 1.98	< 2.05				< 2.02
6:2 FTS	ng/l	< 2.09	< 2.02	< 1.98	< 2.05				< 2.02
8:2 FTS	ng/l	< 2.09	< 2.02	< 1.98	< 2.05				< 2.02
EtFOSAA	ng/l	< 2.09	< 2.02	< 1.98	< 2.05				< 2.02
MeFOSAA	ng/l	< 2.09	< 2.02	< 1.98	< 2.05				< 2.02
Total PFAS	ng/l	56.72	53.93	60.48	62.81				9.69

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. **BOLD** - Analyte above detection
7. Highlight - Above EGLE Part 201
criteria: 8 ng/L PFOA, or 16 ng/L PFOS