



January 20, 2022

John Docter
1750 Mirro Drive
Manitowoc, WI 54220

SUBJECT: Notification of Drinking Water Sample Results at 1750 Mirro Drive, Manitowoc, WI
Mirro Co Plt 2 (Former), 2009 Mirro Drive, Manitowoc, WI 54220
BRRTS #: 02-36-588656

Dear Mr. Docter:

The Wisconsin Department of Natural Resources (DNR) recently sampled and received results from your well. Sampling was conducted on December 15, 2021 to determine if contamination from the Mirro Co Plt 2 (Former) site has impacted your drinking water well.

The sample collected from your well was analyzed for per- and polyfluoroalkyl substances (PFAS). Enclosed is a copy of the sample results identifying all hazardous substances detected. Wisconsin Administrative (Wis. Admin.) Code ch. NR 716 requires that notification be provided to the owner of any potable well and the occupants served by that well of sampling results within 10 days of receipt of the results.

At the time and location of sampling, reported concentrations of hazardous substances analyzed were either not detected or the concentrations were below current drinking water standards or health-based standards recommended by the Wisconsin Department of Health Services (DHS). Perfluorooctanesulfonamide (PFOSA) was detected at 9.08 nanograms per liter (ng/L), which is below the DHS recommended standard of 20 ng/L.

If you have questions regarding this letter, please contact the DNR project manager, Tauren Beggs, at (920) 510-3472 or at Tauren.Beggs@wisconsin.gov.

Sincerely,

Tauren R. Beggs
Remediation & Redevelopment Program

Attachment: Laboratory Report

cc: Jim Kasdorf, DNR Regional Drinking and Groundwater Specialist (James.KasdorfJr@wisconsin.gov)
Roxanne Chronert, DNR Remediation & Redevelopment Program (Roxanne.Chronert@wisconsin.gov)
Nathan Kloczko, Department of Health Services (nathan.kloczko@dhs.wisconsin.gov)

Sample ID: 1750 Mirro Dr
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	AECOM	Matrix:	Aqueous	Lab Sample:	2112147-01	Column:	BEH C18
Project:	60673908	Date Collected:	15-Dec-21 17:15	Date Received:	17-Dec-21 10:20		
Location:	Residence						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.991	0.991	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
PFPeA	2706-90-3	<0.741	0.741	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
PFBS	375-73-5	<0.888	0.888	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
4:2 FTS	757124-72-4	<0.932	0.932	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
PFHxA	307-24-4	<0.800	0.800	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
PFPeS	2706-91-4	<0.805	0.805	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
HFPO-DA	13252-13-6	<1.54	1.54	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
PFHpA	375-85-9	<0.918	0.918	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
ADONA	919005-14-4	<0.628	0.628	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
PFHxS	355-46-4	<1.01	1.01	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
6:2 FTS	27619-97-2	<1.10	1.10	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
PFOA	335-67-1	<0.937	0.937	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
PFHpS	375-92-8	<0.584	0.584	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
PFNA	375-95-1	<0.741	0.741	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
PFOSA	754-91-6	9.08	1.07	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
PFOS	1763-23-1	<1.11	1.11	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
9Cl-PF3ONS	756426-58-1	<1.05	1.05	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
PFDA	335-76-2	<0.927	0.927	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
8:2 FTS	39108-34-4	<1.11	1.11	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
PFNS	68259-12-1	<1.13	1.13	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
MeFOSAA	2355-31-9	<0.932	0.932	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
EtFOSAA	2991-50-6	<1.02	1.02	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
PFUnA	2058-94-8	<0.741	0.741	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
PFDS	335-77-3	<0.746	0.746	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
11Cl-PF3OUdS	763051-92-9	<0.972	0.972	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
PFDoA	307-55-1	<0.957	0.957	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
MeFOSA	31506-32-8	<2.20	2.20	2.45		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
PFTrDA	72629-94-8	<0.643	0.643	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
PFDoS	79780-39-5	<1.39	1.39	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
PFTeDA	376-06-7	<0.800	0.800	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
EtFOSA	4151-50-2	<2.28	2.28	2.45		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
EtFOSE	1691-99-2	<1.54	1.54	1.96		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
MeFOSE	24448-09-7	<1.96	1.96	2.45		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	67.1	25 - 150		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
13C3-PFPeA	IS	84.2	25 - 150		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
13C3-PFBS	IS	83.2	25 - 150		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1

Sample ID: 1750 Mirro Dr
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	AECOM	Matrix:	Aqueous	Lab Sample:	2112147-01	Column:	BEH C18
Project:	60673908	Date Collected:	15-Dec-21 17:15	Date Received:	17-Dec-21 10:20		
Location:	Residence						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-HFPO-DA	IS	81.9	25 - 150		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
13C2-4:2 FTS	IS	97.7	25 - 150		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
13C2-PFHxA	IS	87.9	25 - 150		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
13C4-PFHpA	IS	86.1	25 - 150		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
13C3-PFHxS	IS	87.0	25 - 150		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
13C2-6:2 FTS	IS	88.2	25 - 150		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
13C5-PFNA	IS	105	25 - 150		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
13C8-PFOA	IS	60.8	10 - 150		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
13C2-PFOA	IS	96.1	25 - 150		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
13C8-PFOS	IS	78.0	25 - 150		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
13C2-PFDA	IS	78.3	25 - 150		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
13C2-8:2 FTS	IS	79.8	25 - 150		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
d3-MeFOSAA	IS	98.0	25 - 150		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
13C2-PFUnA	IS	86.5	25 - 150		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
d5-EtFOSAA	IS	74.4	25 - 150		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
13C2-PFDoA	IS	82.8	25 - 150		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
d3-MeFOSA	IS	31.6	10 - 150		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
13C2-PFTeDA	IS	84.6	25 - 150		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
d5-EtFOSA	IS	32.5	10 - 150		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
d7-MeFOSE	IS	58.1	10 - 150		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1
d9-EtFOSE	IS	55.0	10 - 150		B1L0185	30-Dec-21	0.255 L	31-Dec-21 16:39	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

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



January 14, 2022

David and Amy Basken
2519 Woodland Dr
Manitowoc WI 54220

SUBJECT: Notification of Drinking Water Sample Results at 2519 Woodland Dr, Manitowoc, WI

Dear David and Amy Basken:

The Wisconsin Department of Natural Resources (DNR) recently sampled and received results from your well. Sampling was conducted on December 15, 2021 to determine if the well had been impacted by per- or polyfluorinated alkyl substances (PFAS).

The results from sampling indicate that your well is adversely impacted by PFAS. The DNR is issuing an advisory under Wisconsin Administrative (Wis. Admin.) Code § NR 738.03(1) and **recommends that the well or water supply not be used for human consumption (e.g., drinking, cooking) at this time due to potential human health risks.**

SUMMARY OF RESULTS

Enclosed is a copy of the sample results. Wis. Admin. Code ch. NR 716 requires that notification be provided to the owner of any potable well and the occupants served by that well of sampling results within 10 days of receipt of the results. Perfluorooctanesulfonamide (PFOSA) was detected at a concentration above the Wisconsin Department of Health Services (DHS) recommended groundwater enforcement standard (ES). Listed below is the sample concentration and the respective recommended standard:

Date of Sampling	Substance	Sample Result	DHS Recommended ES
12/15/2021	PFOSA	21.1 ng/L	20.0 ng/L

Note: One milligram per liter (mg/L) is equal to one part per million. One microgram per liter (µg/L) is equal to one part per billion. One nanogram per liter (ng/L) is equal to one part per trillion.

HEALTH IMPACTS

When a health-based ES is exceeded, the DHS recommends that you do not use the water for drinking or preparing beverages or foods that take up a lot of water (e.g., soup, rice, oatmeal). It is safe to use the water for bathing, washing dishes and other household chores. For additional information, visit <https://www.dhs.wisconsin.gov/chemical/pfas.htm>. For health-related questions, please contact Nathan Kloczko at nathan.kloczko@dhs.wisconsin.gov.

TEMPORARY WATER

With this advisory, you may be eligible to receive a temporary emergency supply of drinking water from the DNR under Wis. Admin. Code ch. NR 738. To receive a temporary emergency drinking water supply, sign the enclosed agreement and submit it to the DNR email or mailing address stated on the agreement.

Please note: Temporary emergency water supplies may only be obtained for a maximum of six months from the date of this letter, or until such time as the DNR confirms: 1) that well water does not contain contaminants above DHS-recommended enforcement standards; 2) the contaminated water supply has been replaced by an uncontaminated water supply; and/or 3) the private water supply has returned to an uncontaminated condition, whichever occurs first. Temporary water is only available to affected parties that are not considered a “responsible party” under Wisconsin Statute ch. 292.

If you have questions regarding this letter, please contact the DNR project manager Tauren Beggs at (920) 510-3472 or tauren.beggs@wisconsin.gov.

Sincerely,



Jenna Soyer, Policy and Program Operations Director
Remediation & Redevelopment Program

Attachments:

Laboratory report

Temporary Emergency Water Supply Agreement

cc:

Jim Kasdorf, DNR Regional Drinking Water Specialist – James.KasdorfJr@wisconsin.gov

Nathan Kloczko, Site Evaluation Program Coordinator – nathan.kloczko@dhs.wisconsin.gov

Sample ID: 2519 Woodland Dr
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	AECOM	Matrix:	Aqueous	Lab Sample:	2112147-04	Column:	BEH C18
Project:	60673908	Date Collected:	15-Dec-21 17:45	Date Received:	17-Dec-21 10:20		
Location:	Residence						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<1.02	1.02	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
PFPeA	2706-90-3	<0.760	0.760	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
PFBS	375-73-5	<0.911	0.911	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
4:2 FTS	757124-72-4	<0.956	0.956	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
PFHxA	307-24-4	<0.820	0.820	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
PFPeS	2706-91-4	<0.825	0.825	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
HFPO-DA	13252-13-6	<1.58	1.58	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
PFHpA	375-85-9	<0.941	0.941	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
ADONA	919005-14-4	<0.644	0.644	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
PFHxS	355-46-4	<1.04	1.04	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
6:2 FTS	27619-97-2	<1.13	1.13	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
PFOA	335-67-1	<0.961	0.961	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
PFHpS	375-92-8	<0.599	0.599	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
PFNA	375-95-1	<0.760	0.760	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
PFOSA	754-91-6	21.1	1.10	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
PFOS	1763-23-1	<1.14	1.14	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
9Cl-PF3ONS	756426-58-1	<1.07	1.07	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
PFDA	335-76-2	<0.951	0.951	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
8:2 FTS	39108-34-4	<1.14	1.14	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
PFNS	68259-12-1	<1.16	1.16	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
MeFOSAA	2355-31-9	<0.956	0.956	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
EtFOSAA	2991-50-6	<1.05	1.05	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
PFUnA	2058-94-8	<0.760	0.760	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
PFDS	335-77-3	<0.765	0.765	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
11Cl-PF3OUdS	763051-92-9	<0.996	0.996	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
PFDoA	307-55-1	<0.981	0.981	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
MeFOSA	31506-32-8	<2.25	2.25	2.52		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
PFTrDA	72629-94-8	<0.659	0.659	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
PFDoS	79780-39-5	<1.42	1.42	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
PFTeDA	376-06-7	<0.820	0.820	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
EtFOSA	4151-50-2	<2.34	2.34	2.52		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
EtFOSE	1691-99-2	<1.58	1.58	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
MeFOSE	24448-09-7	<2.01	2.01	2.52		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	57.2	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
13C3-PFPeA	IS	88.5	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
13C3-PFBS	IS	85.2	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1

Sample ID: 2519 Woodland Dr
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	AECOM	Matrix:	Aqueous	Lab Sample:	2112147-04	Column:	BEH C18
Project:	60673908	Date Collected:	15-Dec-21 17:45	Date Received:	17-Dec-21 10:20		
Location:	Residence						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-HFPO-DA	IS	83.0	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
13C2-4:2 FTS	IS	75.9	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
13C2-PFHxA	IS	89.9	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
13C4-PFHpA	IS	91.4	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
13C3-PFHxS	IS	87.7	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
13C2-6:2 FTS	IS	87.3	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
13C5-PFNA	IS	105	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
13C8-PFOA	IS	64.9	10 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
13C2-PFOA	IS	95.3	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
13C8-PFOS	IS	86.1	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
13C2-PFDA	IS	94.1	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
13C2-8:2 FTS	IS	75.0	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
d3-MeFOSAA	IS	103	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
13C2-PFUnA	IS	86.9	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
d5-EtFOSAA	IS	80.3	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
13C2-PFDoA	IS	81.7	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
d3-MeFOSA	IS	30.4	10 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
13C2-PFTeDA	IS	80.7	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
d5-EtFOSA	IS	28.4	10 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
d7-MeFOSE	IS	62.8	10 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1
d9-EtFOSE	IS	65.9	10 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 17:40	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

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



January 14, 2022

Christiaan and Laurel den Heijer
2722 Woodland Dr
Manitowoc, WI 54220

SUBJECT: Notification of Drinking Water Sample Results at 2722 Woodland Dr, Manitowoc, WI

Dear Christiaan and Laurel den Heijer:

The Wisconsin Department of Natural Resources (DNR) recently sampled and received results from your well. Sampling was conducted on December 16, 2021 to determine if the well had been impacted by per- or polyfluorinated alkyl substances (PFAS).

The results from sampling indicate that your well is adversely impacted by PFAS. The DNR is issuing an advisory under Wisconsin Administrative (Wis. Admin.) Code § NR 738.03(1) and **recommends that the well or water supply not be used for human consumption (e.g., drinking, cooking) at this time due to potential human health risks.**

SUMMARY OF RESULTS

Enclosed is a copy of the sample results. Wis. Admin. Code ch. NR 716 requires that notification be provided to the owner of any potable well and the occupants served by that well of sampling results within 10 days of receipt of the results. Perfluorooctanoic acid (PFOA) and perfluorooctanesulfonamide (PFOSA) were detected at a combined concentration above the Wisconsin Department of Health Services (DHS) recommended groundwater enforcement standard (ES). PFOSA was detected at a concentration that also exceed the individual DHS recommended ES for that compound. Listed below is the sample concentrations and the respective recommended standards:

Date of Sampling	Substance	Sample Result	DHS Recommended ES
12/16/2021	PFOSA	106 ng/L	20.0 ng/L
12/16/2021	PFOSA + PFOA	106 + 8.98 = 114.98 ng/L combined	20.0 ng/L combined

Note: One milligram per liter (mg/L) is equal to one part per million. One microgram per liter (µg/L) is equal to one part per billion. One nanogram per liter (ng/L) is equal to one part per trillion.

HEALTH IMPACTS

When a health-based ES is exceeded, the DHS recommends that you do not use the water for drinking or preparing beverages or foods that take up a lot of water (e.g., soup, rice, oatmeal). It is safe to use the water for bathing, washing dishes and other household chores. For additional information, visit <https://www.dhs.wisconsin.gov/chemical/pfas.htm>. For health-related questions, please contact Nathan Kloczko at nathan.kloczko@dhs.wisconsin.gov.

TEMPORARY WATER

With this advisory, you may be eligible to receive a temporary emergency supply of drinking water from the DNR under Wis. Admin. Code ch. NR 738. To receive a temporary emergency drinking water supply, sign the enclosed agreement and submit it to the DNR email or mailing address stated on the agreement.

Please note: Temporary emergency water supplies may only be obtained for a maximum of six months from the date of this letter, or until such time as the DNR confirms: 1) that well water does not contain contaminants above DHS-recommended enforcement standards; 2) the contaminated water supply has been replaced by an uncontaminated water supply; and/or 3) the private water supply has returned to an uncontaminated condition, whichever occurs first. Temporary water is only available to affected parties that are not considered a “responsible party” under Wisconsin Statute ch. 292.

If you have questions regarding this letter, please contact the DNR project manager Tauren Beggs at (920) 510-3472 or tauren.beggs@wisconsin.gov.

Sincerely,



Jenna Soyer, Policy and Program Operations Director
Remediation & Redevelopment Program

Attachments:
Laboratory report
Temporary Emergency Water Supply Agreement

cc:

Jim Kasdorf, DNR Regional Drinking Water Specialist – James.KasdorfJr@wisconsin.gov
Nathan Kloczko, Site Evaluation Program Coordinator – nathan.kloczko@dhs.wisconsin.gov

Sample ID: 2722 Woodland Dr
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	AECOM	Matrix:	Aqueous	Lab Sample:	2112147-02	Column:	BEH C18
Project:	60673908	Date Collected:	16-Dec-21 08:15	Date Received:	17-Dec-21 10:20		
Location:	Residence						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<1.02	1.02	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
PFPeA	2706-90-3	<0.760	0.760	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
PFBS	375-73-5	<0.911	0.911	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
4:2 FTS	757124-72-4	<0.956	0.956	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
PFHxA	307-24-4	<0.820	0.820	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
PFPeS	2706-91-4	<0.825	0.825	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
HFPO-DA	13252-13-6	<1.57	1.57	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
PFHpA	375-85-9	0.942	0.941	2.01	J	B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
ADONA	919005-14-4	<0.644	0.644	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
PFHxS	355-46-4	<1.04	1.04	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
6:2 FTS	27619-97-2	<1.13	1.13	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
PFOA	335-67-1	8.98	0.961	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
PFHpS	375-92-8	<0.599	0.599	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
PFNA	375-95-1	<0.760	0.760	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
PFOSA	754-91-6	106	1.10	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
PFOS	1763-23-1	<1.14	1.14	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
9Cl-PF3ONS	756426-58-1	<1.07	1.07	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
PFDA	335-76-2	<0.951	0.951	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
8:2 FTS	39108-34-4	<1.14	1.14	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
PFNS	68259-12-1	<1.16	1.16	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
MeFOSAA	2355-31-9	<0.956	0.956	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
EtFOSAA	2991-50-6	<1.05	1.05	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
PFUnA	2058-94-8	<0.760	0.760	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
PFDS	335-77-3	<0.765	0.765	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
11Cl-PF3OUdS	763051-92-9	<0.996	0.996	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
PFDoA	307-55-1	<0.981	0.981	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
MeFOSA	31506-32-8	<2.25	2.25	2.52		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
PFTrDA	72629-94-8	<0.659	0.659	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
PFDoS	79780-39-5	<1.42	1.42	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
PFTeDA	376-06-7	<0.820	0.820	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
EtFOSA	4151-50-2	<2.34	2.34	2.52		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
EtFOSE	1691-99-2	<1.58	1.58	2.01		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
MeFOSE	24448-09-7	<2.01	2.01	2.52		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	65.7	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
13C3-PFPeA	IS	87.8	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
13C3-PFBS	IS	87.7	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1

Sample ID: 2722 Woodland Dr
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	AECOM	Matrix:	Aqueous	Lab Sample:	2112147-02	Column:	BEH C18
Project:	60673908	Date Collected:	16-Dec-21 08:15	Date Received:	17-Dec-21 10:20		
Location:	Residence						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-HFPO-DA	IS	80.1	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
13C2-4:2 FTS	IS	100	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
13C2-PFHxA	IS	85.6	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
13C4-PFHpA	IS	84.8	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
13C3-PFHxS	IS	90.4	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
13C2-6:2 FTS	IS	84.5	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
13C5-PFNA	IS	102	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
13C8-PFOA	IS	68.5	10 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
13C2-PFOA	IS	91.2	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
13C8-PFOS	IS	91.0	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
13C2-PFDA	IS	94.1	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
13C2-8:2 FTS	IS	90.4	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
d3-MeFOSAA	IS	99.5	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
13C2-PFUnA	IS	89.2	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
d5-EtFOSAA	IS	80.8	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
13C2-PFDoA	IS	84.6	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
d3-MeFOSA	IS	40.4	10 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
13C2-PFTeDA	IS	83.8	25 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
d5-EtFOSA	IS	40.4	10 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
d7-MeFOSE	IS	63.7	10 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1
d9-EtFOSE	IS	68.5	10 - 150		B1L0185	30-Dec-21	0.248 L	31-Dec-21 16:49	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

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



January 20, 2022

Jon Henry
3104 Woodland Drive
Manitowoc, WI 54220
Via Electronic Mail Only to joncharleshenry@gmail.com

SUBJECT: Notification of Drinking Water Sample Results at 3104 Woodland Drive, Manitowoc, WI
Mirro Co Plt 2 (Former), 2009 Mirro Drive, Manitowoc, WI 54220
BRRTS #: 02-36-588656

Dear Mr. Henry:

The Wisconsin Department of Natural Resources (DNR) recently sampled and received results from your well. Sampling was conducted on December 16, 2021 to determine if contamination from the Mirro Co Plt 2 (Former) site has impacted your drinking water well.

The sample collected from your well was analyzed for per- and polyfluoroalkyl substances (PFAS). Enclosed is a copy of the sample results identifying all hazardous substances detected. Wisconsin Administrative (Wis. Admin.) Code ch. NR 716 requires that notification be provided to the owner of any potable well and the occupants served by that well of sampling results within 10 days of receipt of the results.

At the time and location of sampling, reported concentrations of hazardous substances analyzed were either not detected or the concentrations were below current drinking water standards or health-based standards recommended by the Wisconsin Department of Health Services (DHS). Perfluorooctanesulfonamide (PFOSA) was detected at 11.5 nanograms per liter (ng/L), which is below the DHS recommended standard of 20 ng/L.

If you have questions regarding this letter, please contact the DNR project manager, Tauren Beggs, at (920) 510-3472 or at Tauren.Beggs@wisconsin.gov.

Sincerely,

Tauren R. Beggs
Remediation & Redevelopment Program

Attachment: Laboratory Report

cc: Jim Kasdorf, DNR Regional Drinking and Groundwater Specialist (James.KasdorfJr@wisconsin.gov)
Roxanne Chronert, DNR Remediation & Redevelopment Program (Roxanne.Chronert@wisconsin.gov)
Nathan Kloczko, Department of Health Services (nathan.kloczko@dhs.wisconsin.gov)

Sample ID: 3104 Woodland Dr
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	AECOM	Matrix:	Aqueous	Lab Sample:	2112147-03	Column:	BEH C18
Project:	60673908	Date Collected:	16-Dec-21 08:45	Date Received:	17-Dec-21 10:20		
Location:	Residence						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<1.03	1.03	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
PFPeA	2706-90-3	<0.770	0.770	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
PFBS	375-73-5	<0.923	0.923	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
4:2 FTS	757124-72-4	<0.969	0.969	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
PFHxA	307-24-4	<0.831	0.831	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
PFPeS	2706-91-4	<0.836	0.836	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
HFPO-DA	13252-13-6	<1.60	1.60	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
PFHpA	375-85-9	<0.953	0.953	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
ADONA	919005-14-4	<0.653	0.653	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
PFHxS	355-46-4	<1.05	1.05	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
6:2 FTS	27619-97-2	<1.15	1.15	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
PFOA	335-67-1	<0.974	0.974	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
PFHpS	375-92-8	<0.607	0.607	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
PFNA	375-95-1	<0.770	0.770	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
PFOSA	754-91-6	11.5	1.11	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
PFOS	1763-23-1	<1.15	1.15	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
9Cl-PF3ONS	756426-58-1	<1.09	1.09	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
PFDA	335-76-2	<0.964	0.964	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
8:2 FTS	39108-34-4	<1.16	1.16	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
PFNS	68259-12-1	<1.18	1.18	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
MeFOSAA	2355-31-9	<0.969	0.969	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
EtFOSAA	2991-50-6	<1.06	1.06	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
PFUnA	2058-94-8	<0.770	0.770	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
PFDS	335-77-3	<0.775	0.775	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
11Cl-PF3OUdS	763051-92-9	<1.01	1.01	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
PFDoA	307-55-1	<0.994	0.994	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
MeFOSA	31506-32-8	<2.28	2.28	2.55		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
PFTrDA	72629-94-8	<0.668	0.668	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
PFDoS	79780-39-5	<1.44	1.44	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
PFTeDA	376-06-7	<0.831	0.831	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
EtFOSA	4151-50-2	<2.37	2.37	2.55		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
EtFOSE	1691-99-2	<1.60	1.60	2.04		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
MeFOSE	24448-09-7	<2.04	2.04	2.55		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	70.0	25 - 150		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
13C3-PFPeA	IS	89.6	25 - 150		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
13C3-PFBS	IS	84.0	25 - 150		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1

Sample ID: 3104 Woodland Dr
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	AECOM	Matrix:	Aqueous	Lab Sample:	2112147-03	Column:	BEH C18
Project:	60673908	Date Collected:	16-Dec-21 08:45	Date Received:	17-Dec-21 10:20		
Location:	Residence						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-HFPO-DA	IS	98.9	25 - 150		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
13C2-4:2 FTS	IS	99.0	25 - 150		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
13C2-PFHxA	IS	88.8	25 - 150		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
13C4-PFHpA	IS	87.5	25 - 150		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
13C3-PFHxS	IS	80.8	25 - 150		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
13C2-6:2 FTS	IS	80.3	25 - 150		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
13C5-PFNA	IS	101	25 - 150		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
13C8-PFOA	IS	57.6	10 - 150		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
13C2-PFOA	IS	86.6	25 - 150		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
13C8-PFOS	IS	79.4	25 - 150		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
13C2-PFDA	IS	92.4	25 - 150		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
13C2-8:2 FTS	IS	80.4	25 - 150		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
d3-MeFOSAA	IS	93.6	25 - 150		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
13C2-PFUnA	IS	87.5	25 - 150		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
d5-EtFOSAA	IS	84.6	25 - 150		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
13C2-PFDoA	IS	80.3	25 - 150		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
d3-MeFOSA	IS	25.2	10 - 150		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
13C2-PFTeDA	IS	81.3	25 - 150		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
d5-EtFOSA	IS	25.2	10 - 150		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
d7-MeFOSE	IS	51.5	10 - 150		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1
d9-EtFOSE	IS	52.4	10 - 150		B1L0185	30-Dec-21	0.245 L	31-Dec-21 17:30	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

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