

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
107 Sutliff Avenue
Rhineland WI 54501-3349

Tony Evers, Governor
Preston D. Cole, Secretary
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TTY Access via relay - 711



June 2, 2022

TOWN OF CRESCENT
ATTN: TRACY HARTMAN-CLERK
6902 FIRE TOWER ROAD
RHINELANDER, WI 54501

Subject: Private well sampling results for 3171 South River Road (Crescent Spring)

Dear Ms. Hartman:

Please find the results of the water sample (attached) collected on March 15, 2022. The sample was collected by AECOM, the environmental consultant for the City of Rhineland, Oneida County, and the Rhineland-Oneida County Airport. A separate letter from the Department of Health Services (DHS) discussing the significance of the results will be sent by DHS under separate cover.

If you have any questions or concerns, please feel free to contact me at (715) 360-1966 or by email at Carrie.Stoltz@Wisconsin.gov or you can contact my supervisor, Chris Saari at (715) 208-4004 or by email at Christopher.Saari@Wisconsin.gov

Sincerely,

Carrie Stoltz
Hydrogeologist
Northern Region
Remediation and Redevelopment Program

Attachments: Private well sampling results, AECOM, dated March 15, 2022

Cc: Nathan Kloczko-DHS (via email)

Sample ID: 3171 S River Rd						PFAS Isotope Dilution Method					
Client Data			Matrix: Aqueous			Laboratory Data			Column: BEH C18		
Name: AECOM		Date Collected: 15-Mar-22 10:45		Lab Sample: 2203140-12		Date Received: 17-Mar-22 11:57		Column: BEH C18			
Project: 60668389											
Location: Crescent Spring											
Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBa	375-22-4	3.85	0.982	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
PFPeA	2706-90-3	6.32	0.734	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
PFBS	375-73-5	21.9	0.880	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
4:2 FTS	757124-72-4	<0.924	0.924	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
PFHxA	307-24-4	12.5	0.793	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
PFPeS	2706-91-4	13.1	0.798	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
HFPO-DA	13252-13-6	<1.52	1.52	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
PFHpA	375-85-9	2.77	0.909	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
ADONA	919005-14-4	<0.623	0.623	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
PFHxS	355-46-4	78.2	1.00	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
6:2 FTS	27619-97-2	<1.09	1.09	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
PFOA	335-67-1	4.55	0.929	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
PFHpS	375-92-8	<0.579	0.579	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
PFNA	375-95-1	<0.734	0.734	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
PFOSA	754-91-6	2.46	1.06	1.95	Q	B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
PFOs	1763-23-1	6.11	1.10	1.95	Q	B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
9CI-PF3ONS	756426-58-1	<1.04	1.04	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
PFDA	335-76-2	<0.919	0.919	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
8:2 FTS	39108-34-4	<1.10	1.10	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
PFNS	68259-12-1	<1.12	1.12	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
MeFOSAA	2355-31-9	<0.924	0.924	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
EtFOSAA	2991-50-6	<1.01	1.01	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
PFUnA	2058-94-8	<0.734	0.734	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
PFDS	335-77-3	<0.739	0.739	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
11CI-PF3OUdS	763051-92-9	<0.963	0.963	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
PFDoA	307-55-1	<0.948	0.948	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
MeFOsA	31506-32-8	<2.18	2.18	2.43		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
PFTrDA	72629-94-8	<0.637	0.637	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
PFDoS	79780-39-5	<1.38	1.38	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
PFTeDA	376-06-7	<0.793	0.793	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
EtFOsA	4151-50-2	<2.26	2.26	2.43		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
EtFOSE	1691-99-2	<1.53	1.53	1.95		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
MeFOSE	24448-09-7	<1.95	1.95	2.43		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
Labeled Standards		Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBa	IS	123		25 - 150		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
13C3-PFPeA	IS	87.0		25 - 150		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	
13C3-PFBS	IS	82.1		25 - 150		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1	

Sample ID: 3171 S River Rd

PFAS Isotope Dilution Method

Client Data				Laboratory Data					
Name:	AECOM	Matrix:	Aqueous	Lab Sample:	2203140-12	Column:	BEH C18		
Project:	60668389	Date Collected:	15-Mar-22 10:45	Date Received:	17-Mar-22 11:57				
Location:	Crescent Spring								
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-HFPO-DA	IS	96.2	25 - 150		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1
13C2-4:2 FTS	IS	83.5	25 - 150		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1
13C2-PFHxA	IS	87.1	25 - 150		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1
13C4-PFHpA	IS	86.1	25 - 150		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1
13C3-PFHxS	IS	86.6	25 - 150		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1
13C2-6:2 FTS	IS	89.5	25 - 150		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1
13C5-PFNA	IS	81.7	25 - 150		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1
13C8-PFOA	IS	63.6	10 - 150		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1
13C2-PFOA	IS	84.0	25 - 150		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1
13C8-PFOS	IS	84.3	25 - 150		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1
13C2-PFDA	IS	88.5	25 - 150		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1
13C2-8:2 FTS	IS	91.0	25 - 150		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1
d3-MeFOSAA	IS	87.4	25 - 150		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1
13C2-PFUnA	IS	80.1	25 - 150		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1
d5-EtFOSAA	IS	79.7	25 - 150		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1
3C2-PFD0A	IS	80.4	25 - 150		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1
d3-MeFOSA	IS	31.2	10 - 150		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1
13C2-PFTeDA	IS	69.3	25 - 150		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1
d5-EtFOSA	IS	31.7	10 - 150		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1
d7-MeFOSE	IS	47.7	10 - 150		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1
d9-EtFOSE	IS	55.1	10 - 150		B22C201	29-Mar-22	0.257 L	31-Mar-22 22:56	1
MDL - Method Detection 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.					

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.

Analyte	CAS Number	Conc. (ng/L)	MDL
PFBA	375-22-4	11.1	0.976
PFPA	2706-60-3	20.9	0.729
PFBS	375-73-1	64.0	0.874
4:2 FTS	757124-72-4	<0.918	0.918
PFHxA	307-24-4	76.3	0.787
PFPA	2706-91-4	142	0.792
HFPO-DA	13252-13-6	<1.51	1.51
PFHxA	375-85-9	15.8	0.903
ADONA	918005-14-4	<0.618	0.618
PFHxS	355-46-4	1040	0.993
6:2 FTS	27619-97-2	<1.09	1.09
PFOA	335-67-1	20.4	0.923
PFHpS	375-92-8	5.13	0.375
PFNA	375-95-1	<0.729	0.729
PFOSA	734-91-6	6.69	1.05
PFOS	1763-23-1	138	1.09
9Cl-PF3ONS	756426-58-1	<1.03	1.03
PFDA	335-76-2	<0.913	0.913
8:2 FTS	39106-34-4	<1.10	1.10
PFNS	68259-12-1	<1.12	1.12
MeFOSAA	2355-31-9	<0.918	0.918
EtFOSAA	2991-30-6	<1.00	1.00
PFLnA	2058-94-8	<0.729	0.729
PFDS	335-77-3	<0.734	0.734
11Cl-PF3OUs	763051-92-9	<0.956	0.956
PFDoA	307-55-1	<0.942	0.942
MeFOA	31506-32-8	<2.16	2.16
PFTrDA	72629-44-8	<0.633	0.633
PFDoS	29780-39-5	<1.37	1.37
PFTrDA	376-06-7	<0.787	0.787
EtFOA	4151-30-2	<2.25	2.25
EtFOSE	1691-89-2	<1.52	1.52
MeFOSE	24448-09-7	<1.93	1.93
Labeled Standards	Type	% Recovery	
13C3-PFBA	IS	127	
13C3-PFPA	IS	86.0	
13C3-PFBS	IS	86.9	