

444 21st Street South · La Crosse, Wisconsin · 54601

November 23, 2020

2530 2nd Avenue East La Crosse, WI 54603

Subject: Private Well Sampling Results 2530 2nd Avenue East, La Crosse, WI 54603 Tax parcel # 4-185-0 Sample ID # 185-0

Dear

We have received and reviewed the test results for the sample collected on October 29, 2020 at the above address. Some PFAS compounds were found at levels <u>above</u> the Department of Health Services (DHS) levels recommended for protecting health. These levels are called the "Recommended Public Health Standard" in the table below. The levels found in your well are called the "Sample Result" in the table below.

Because some of the levels are above the recommended Public Health Standard, the City is offering to provide bottled water delivered to your home for drinking, cooking, and brushing your teeth. There will be no cost to you for the bottled water. Please complete the attached form and mail it to The OS Group to make arrangements for having a water dispenser and bottles delivered to your home. Call 608-668-2718 or email <u>PFAS@theOSgrp.com</u>. You may also complete this form on line at www.cityoflacrosse.org/bottledwater

The following table summarizes the test results from the sample. **Bolded results** are above a current recommended level intended to protect your health according to the Department of Health Services (DHS).

Private Well Sampling Results for 2530 2nd Avenue East, La Crosse, WI 54603 Tax parcel # 4-185-0 Sample ID # 185-0 November 23, 2020

Compound	Sample Result (unit)	Recomm Public H Standard	lealth		
N-Ethyl Perfluorooctane sulfonamide (NEtFOSA) CAS # 4151-50-2	Not Detected	20 ppt ^{a,b}) ppt unds I 6		
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA) CAS # 2991-50-6	Not Detected	20 ppt ^{a,b}	it is 2C compo <i>xl</i> of al		
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE) CAS # 1691-99-2	Not Detected	20 ppt ^{a,b}	: ches		
Perfluorooctane sulfonamide (FOSA) CAS # 754-91-6	Not Detected	20 ppt ^{a,b}			
Perfluorooctanoic acid (PFOA) CAS # 335-67-1	Not Detected	20 ppt ^{a,b} the column on the column of the			
Perfluorooctanesulfonic acid (PFOS) CAS # 1763-23-1	4.8 ppt				
Hexafluoropropylene oxide dimer acid (HPFO-DA; GenX) CAS # 13252-13-6	Not Detected	300 ppt ª			
Perfluorobutanesulfonic acid (PFBS) CAS # 375-73-5	7.7 ppt	450,000 ppt ^a			
Perfluorohexanesulfonic acid (PFHxS) CAS # 355-46-4	77 ppt	40 ppt ^a			
Perfluorobutanoic acid (PFBA) CAS # 375-22-4	19 ppt	10,000 ppt ^a			
Perfluorodecanoic acid (PFDA) CAS # 335-76-2	Not Detected	300 ppt ^a			
Perfluorododecanoic acid (PFDoA) CAS # 307-55-1	Not Detected	500 ppt ª			
Perfluorohexanoic acid (PFHxA) CAS # 307-24-4	2.5 ppt	150,000 ppt ^a			
Perfluorononanoic acid (PFNA) CAS # 375-95-1	Not Detected	30 ppt ^a			
Perfluorotetradecanoic acid (PFTeA) CAS # 376-06-7	Not Detected	10,000 ppt ^a			
Perfluoroundecanoic acid (PFUnA) CAS # 2058-94-8	Not Detected	3,000 ppt ^a			
4,8-Dioxa-3H-perfluorononanoic acid (DONA) CAS # 919005-14-4	Not Detected	3,000 ppt ^a			

Sample Results

Private Well Sampling Results for 2530 2nd Avenue East, La Crosse, WI 54603 Tax parcel # 4-185-0 Sample ID # 185-0 November 23, 2020

Perfluorooctadecanoic acid (PFODA) CAS # 16517-11-6	Not Detected	400,000 ppt ^a			
Perfluoro-1-pentanesulfonic acid (PFPeS) CAS # 2706-91-4	6.6 ppt	None Established ^c			
Perfluoro-n-pentanoic acid (PFPeA) CAS #2706-90-3	1.8 ppt	None Established ^c			
 ^a Public health enforcement standard (ES) recommended by DHS. ^b DHS recommends a combined enforcement standard of 20 ng/L and combined preventive action limit of 2 ng/L for FOSA, NEt-FOSA, NetFOSAA, PFOS, and PFOA. ^c A current standard is not available; the compound is currently under review by DHS for potential public health standard recommendation. ^d Public health enforcement standard (ES) in NR 140, Wisconsin Administrative Code. ^e Units: Parts per trillion (ppt) = nanograms of substance per liter of water (ng/L) ^{BL} Detected in the method blank. Possible lab contaminant. 					

As required by law, we will be submitting these results to the Department of Natural Resources (DNR). The DNR may consult with the Department of Health Services (DHS) about these test results. DHS may review all PFAS tests and follow-up with you directly if any actions are recommended to protect your health.

Thank you for your patience and assistance with our investigation. We will provide updates on the project at <u>https://www.cityoflacrosse.org/wells</u> as our work continues. If you have any questions, please call The OS Group at (608) 668-2718 or email them at <u>PFAS@theOSgrp.com</u>.

You can also contact the DNR and DHS with questions about PFAS or the water sample results at the numbers provided below.

Questions about		<u>Contact</u>	<u>Phone</u>	E-mail Address
Soil & Groundwater Testing, Clean Up	DNR	David Rozeboom	715-215-2078	<u>David.Rozeboom@wisconsin.go</u> ⊻
Drinking Water or Private wells	DNR	Kyle Burton	920-360-2112	kyle.burton@wisconsin.gov
Health Concerns	DHS	Curtis Hedman	608-266-6677	Curtis.Hedman@dhs.wisconsin. gov_

On behalf of The City of La Crosse *The OS Group, LLC*

Attachment: Lab report for your well Bottled Water Acknowledgement

PFAS by LC/MS/MS

Client: Pace Analytical Services, LLC				Labui		D: VK03016-019	,	
Description: 185-0					Matrix	: Aqueous		
Date Sampled:10/29/2020 1130	Project Name:	LACROSSE WELL #	#23 & 24					
Date Received: 11/03/2020 Pro	oject Number:	40217496						
RunPrep MethodAnalytical MethodI2SOP SPEPFAS by ID SOP		alysis Date Analyst 7/2020 2054 SES		Date Ba 2020 1613 73	atch 8668			
Parameter	CAS Number	Analytical Method	Result			DL	Units	Ru
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		.4	1.9	ng/L	:
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3)		PFAS by ID SOP	ND		7.4	1.9	ng/L	
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		7.4	1.9	ng/L	
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		7.4	1.9	ng/L	
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SOP	ND		.4	1.9	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		.4	1.9	ng/L	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		.4	1.9	ng/L	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		.4	1.9	ng/L	-
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		.4	1.9	ng/L	2
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		.4	1.9	ng/L	2
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		.4	1.9	ng/L	
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		15	3.7	ng/L	-
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND	7	.4	1.9	ng/L	
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		.4	1.9	ng/L	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	7.7		3.7	0.93	ng/L	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND	3	3.7	0.93	ng/L	
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND	3	3.7	0.93	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND	3	3.7	0.93	ng/L	
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND	3	3.7	0.93	ng/L	:
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	6.6	3	3.7	0.93	ng/L	
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND	7	.4	1.9	ng/L	:
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	77	3	3.7	0.93	ng/L	:
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	19	3	3.7	0.93	ng/L	:
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND	3	3.7	0.93	ng/L	:
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND	3	3.7	0.93	ng/L	2
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND	3	3.7	0.93	ng/L	2
Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	PFAS by ID SOP	ND	7	7.4	1.9	ng/L	2
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	2.5	J	8.7	0.93	ng/L	2
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND	3	3.7	0.93	ng/L	2
Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	PFAS by ID SOP	ND	7	.4	1.9	ng/L	2
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND	3	3.7	0.93	ng/L	2
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	1.8	J	3.7	0.93	ng/L	2
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND	3	3.7	0.93	ng/L	-
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND	3	3.7	0.93	ng/L	4
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND	3	8.7	0.93	ng/L	:
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	4.8	3	3.7	0.93	ng/L	2
		ptance mits						
13C2_4:2FTS	-	5-150						
13C2_6:2FTS	92 25	5-150						
13C2_8:2FTS	87 25	5-150						
13C2_PFDoA	84 25	5-150						
13C2_PFHxDA	85 25	5-150						
13C2_PFTeDA	74 25	5-150						
DQ = Limit of Quantitation B = Detected in the method blank		of compound exceeded the		0				
ND = Not detected at or above the DL N = Recovery is out of criteria	P = The RPD be	tween two GC columns exce	eds 40%	J = Estim	ated resul	It < LOQ and \geq DL		

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.) 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

PFAS by LC/MS/MS

Laboratory ID: VK03016-019 Matrix: Aqueous

Client: Pace Analytical Services, LLC	
Description: 185-0	
Date Sampled:10/29/2020 1130	Project Name: LACROSSE WELL #23 & 24
Date Received: 11/03/2020	Project Number: 40217496

Surrogate	Run 2 A Q % Recovery	cceptance Limits
13C3_PFBS	79	25-150
13C3_PFHxS	82	25-150
13C3-HFPO-DA	90	25-150
13C4_PFBA	93	25-150
13C4_PFHpA	89	25-150
13C5_PFHxA	86	25-150
13C5_PFPeA	90	25-150
13C6_PFDA	90	25-150
13C7_PFUdA	84	25-150
13C8_PFOA	91	25-150
13C8_PFOS	84	25-150
13C8_PFOSA	96	10-150
13C9_PFNA	87	25-150
d-EtFOSA	75	10-150
d5-EtFOSAA	86	25-150
d9-EtFOSE	75	10-150
d-MeFOSA	73	10-150
d3-MeFOSAA	88	25-150
d7-MeFOSE	78	10-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and \ge DL
H = Out of holding time	W = Reported on wet weight basis		

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BOTTLED WATER ACKNOWLEDGEMENT

2530 2nd Avenue East, La Crosse, WI 54603

If you desire to accept the bottled water delivery, please complete and sign this form and return it to The OS Group at <u>PFAS@TheOSgrp.com</u> or mail to 444 21st St. S, La Crosse, WI 54601. You may also complete this form electronically on line at <u>www.cityoflacrosse.org/bottledwater</u>. Call 608-668-2718 with any question you may have.

As pre-caution for the protection of human health, the City of La Crosse (The City) will provide, on a temporary basis, bottled water for drinking, cooking and toothbrushing purposes at the above referenced address. The water will be delivered to your home or business by a commercial water delivery service. At the City's cost, a dispenser / cooler and regular deliveries of 5-gallon containers of water will be provided. The City reserves the right to dictate the conditions of delivery, such as minimum and maximum number of containers per delivery, frequency and timing of deliveries. The City reserves the right to periodically review whether The City should continue to provide bottled water, considering factors such as State and Federal standards and guidance, evolving knowledge and understanding of the sources, cause and responsibility for the contamination, new or reinterpreted test results, and the availability of more permanent or cost-effective sources of water for the above purposes. The City of La Crosse makes no warranty or representation regarding the suitability of the bottled water beyond those made by the commercial water delivery service.

Check ownership: _____ Owner-Occupant _____ Occupant Only

Number of Occupants: _____

All reusable or returnable equipment and supplies, such as the containers and cooler/dispenser, are the property of the commercial water delivery service or the City of La Crosse. By signing below, the Occupant of the above referenced property acknowledges that all reusable or returnable equipment and supplies shall be returned to the commercial water delivery service or the City of La Crosse upon request. The Occupant agrees to provide reasonable access for delivery of bottled water and pick up of reusable or returnable equipment and supplies. Occupant(s) acknowledges that they may be required to sign an agreement with the commercial water delivery service as a condition of receiving bottled water.

Signed:	Dated:

Printed Name: _____

BOTTLED WATER ACKNOWLEDGEMENT

2530 2nd Avenue East, La Crosse, WI 54603

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Signed:	Dated:

Printed Name: _____