



Northern Lake Service, Inc • 400 N Lake Ave • Crandon, WI 54520
800-278-1254 • www.nlslab.com

October 23, 2023

Dean Funk
Rhinelanders Well Drilling Inc
3790 Country Drive (STH 47 N)
Rhinelanders, WI 54501

Project: 2023 Drinking Water Samples
Project Number: Juanita Kichefski
Work Order: CB12680
Received: 10/13/23

Enclosed are the results of analyses for samples received by our laboratory on 10/13/2023. If you have any questions concerning this report, please feel free to contact a client service representative at clientservices@nlslab.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Priebe".

Tom Priebe For Client Services
Northern Lake Service, Inc.



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10/23/23 14:09

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Sample Summary

Descriptions of all qualifiers listed throughout this report can be found on the Qualifiers and Definitions Page.

Lab ID	Sample	Matrix	Sample Type	Qualifiers	Date Sampled	Date Received
CB12680-01	Drinking Water	DW			10/13/23 10:00	10/13/23 13:00

Analysis Qualifiers:

LabNumber	Analysis	Qualifier
CB12680-01	537.1 Perfluorinated Chemicals by LC/MS/MS	FBNA1



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Sample Results

Sample: Drinking Water
CB12680-01 (DW) Sampled: 10/13/23 10:00

Analyte	Result	Qualifier	LOD	LOQ	MCL	Units	Date Prepared	Date Analyzed	Analyst	Method	Lab Cert Code
Semi-Volatiles											
11-chloroicosafafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.32	1.0		ng/L	10/19/23 6:25	10/20/23 11:38	RAW	EPA 537.1, Rev 2.0	2
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.35	1.1		ng/L	10/19/23 6:25	10/20/23 11:38	RAW	EPA 537.1, Rev 2.0	2
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.38	1.2		ng/L	10/19/23 6:25	10/20/23 11:38	RAW	EPA 537.1, Rev 2.0	2
hexafluoropropylene oxide dimer acid (HFPO DA)	ND		0.42	1.4		ng/L	10/19/23 6:25	10/20/23 11:38	RAW	EPA 537.1, Rev 2.0	2
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.48	1.6		ng/L	10/19/23 6:25	10/20/23 11:38	RAW	EPA 537.1, Rev 2.0	2
n-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.41	1.3		ng/L	10/19/23 6:25	10/20/23 11:38	RAW	EPA 537.1, Rev 2.0	2
perfluorobutanesulfonic acid (PFBS)	ND		0.31	1.0		ng/L	10/19/23 6:25	10/20/23 11:38	RAW	EPA 537.1, Rev 2.0	2
perfluorodecanoic acid (PFDA)	ND		0.34	1.1		ng/L	10/19/23 6:25	10/20/23 11:38	RAW	EPA 537.1, Rev 2.0	2
perfluorododecanoic acid (PFDoA)	ND		0.23	0.79		ng/L	10/19/23 6:25	10/20/23 11:38	RAW	EPA 537.1, Rev 2.0	2
perfluoroheptanoic acid (PFHpA)	ND		0.45	1.5		ng/L	10/19/23 6:25	10/20/23 11:38	RAW	EPA 537.1, Rev 2.0	2
perfluorohexanoic acid (PFHxA)	ND		0.48	1.6		ng/L	10/19/23 6:25	10/20/23 11:38	RAW	EPA 537.1, Rev 2.0	2
perfluorohexanesulfonic acid (PFHxS)	ND		0.35	1.1		ng/L	10/19/23 6:25	10/20/23 11:38	RAW	EPA 537.1, Rev 2.0	2
perfluorononanoic acid (PFNA)	ND		0.47	1.5		ng/L	10/19/23 6:25	10/20/23 11:38	RAW	EPA 537.1, Rev 2.0	2
perfluorooctanoic acid (PFOA)	ND		0.50	1.6		ng/L	10/19/23 6:25	10/20/23 11:38	RAW	EPA 537.1, Rev 2.0	2
perfluorooctanesulfonic acid (PFOS)	ND		0.32	1.0		ng/L	10/19/23 6:25	10/20/23 11:38	RAW	EPA 537.1, Rev 2.0	2
perfluorotetradecanoic acid (PFTA)	ND		0.35	1.1		ng/L	10/19/23 6:25	10/20/23 11:38	RAW	EPA 537.1, Rev 2.0	2
perfluorotridecanoic acid (PFTrDA)	ND		0.44	1.4		ng/L	10/19/23 6:25	10/20/23 11:38	RAW	EPA 537.1, Rev 2.0	2
perfluoroundecanoic acid (PFUnA)	ND		0.31	1.0		ng/L	10/19/23 6:25	10/20/23 11:38	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-PFHxA	76%		Limits: 70-130%				10/19/23 6:25	10/20/23 11:38	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-HFPODA	71%		Limits: 70-130%				10/19/23 6:25	10/20/23 11:38	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-PFDA	74%		Limits: 70-130%				10/19/23 6:25	10/20/23 11:38	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) d5-NEtFOSAA	87%		Limits: 70-130%				10/19/23 6:25	10/20/23 11:38	RAW	EPA 537.1, Rev 2.0	2



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List of Certifications

Code	Description	Number	Expires
2	NLS (Crandon) WDNR Laboratory ID No.	721026460	8/31/24



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Qualifiers and Definitions

Item	Definition
FBNA1	The field sample had no detects at or greater than 2.0 ng/L, per the WDNR the corresponding field reagent blank was not required to be analyzed.
ND	Analyte NOT DETECTED at or above the LOD or MRL.
LOD	Limit of Detection.
LOQ	Limit of Quantitation.
NA	Not Applicable.
Dry	Dry Weight Basis.
Wet	Wet Weight Basis.
% Dry	Equal to: (mg/kg dry) / 10000.
1000 ug/L	Equal to: 1 mg/L.
MCL	Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.
RPD	Relative Percent Difference.
%REC	Percent Recovery.
Source	Sample that was matrix spiked or duplicated.

All LOD/LOQs adjusted to reflect preparation volumes, dilutions, and/or solids content.

