



Northern Lake Service, Inc • 400 N Lake Ave • Crandon, WI 54520  
800-278-1254 • [www.nlslab.com](http://www.nlslab.com)

February 08, 2023

Aaron Aschenbrenner  
4541 Stella Lake Rd  
Rhineland, WI 54501

RE: Drinking Water Testing  
Work Order: CB00662  
Received: 01/20/23

Enclosed are the results of analyses for samples received by our laboratory on 1/20/2023. If you have any questions concerning this report, please feel free to contact a client service representative at [clientservices@nlslab.com](mailto:clientservices@nlslab.com).

Sincerely,

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

Tom Priebe For Chris Geske  
Northern Lake Service, Inc.



Aaron Aschenbrenner  
4541 Stella Lake Rd  
Rhinelander, WI 54501

Project: Drinking Water Testing  
Project Number:  
Project Manager: Aaron Aschenbrenner

Reported:  
2/8/23 10:38

Work Order:  
CB00662

### 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
CB00662-01	Sample Tap	DW			1/20/23 13:02	1/20/23 14:45





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Sample Results

Sample: Sample Tap  
CB00662-01 (DW) Sampled: 01/20/23 13:02

Analyte	Result	Qualifier	Dilution	LOD	LOQ	MCL	Units	Date Prepared	Date Analyzed	Analyst	Method	Lab Cert Code
<b>Semi-Volatiles</b>												
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		1	0.30	0.98		ng/L	1/30/23 6:48	1/31/23 11:05	RAW	EPA 537.1, Rev 2.0	2
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		1	0.33	1.1		ng/L	1/30/23 6:48	1/31/23 11:05	RAW	EPA 537.1, Rev 2.0	2
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND		1	0.36	1.2		ng/L	1/30/23 6:48	1/31/23 11:05	RAW	EPA 537.1, Rev 2.0	2
hexafluoropropylene oxide dimer acid (HFPO DA)	ND		1	0.40	1.4		ng/L	1/30/23 6:48	1/31/23 11:05	RAW	EPA 537.1, Rev 2.0	2
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1	0.46	1.6		ng/L	1/30/23 6:48	1/31/23 11:05	RAW	EPA 537.1, Rev 2.0	2
n-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1	0.39	1.3		ng/L	1/30/23 6:48	1/31/23 11:05	RAW	EPA 537.1, Rev 2.0	2
perfluorobutanesulfonic acid (PFBS)	ND		1	0.29	0.98		ng/L	1/30/23 6:48	1/31/23 11:05	RAW	EPA 537.1, Rev 2.0	2
perfluorodecanoic acid (PFDA)	ND		1	0.32	1.1		ng/L	1/30/23 6:48	1/31/23 11:05	RAW	EPA 537.1, Rev 2.0	2
perfluorododecanoic acid (PFDoA)	ND		1	0.23	0.75		ng/L	1/30/23 6:48	1/31/23 11:05	RAW	EPA 537.1, Rev 2.0	2
perfluoroheptanoic acid (PFHpA)	ND		1	0.43	1.5		ng/L	1/30/23 6:48	1/31/23 11:05	RAW	EPA 537.1, Rev 2.0	2
perfluorohexanoic acid (PFHxA)	ND		1	0.46	1.6		ng/L	1/30/23 6:48	1/31/23 11:05	RAW	EPA 537.1, Rev 2.0	2
perfluorohexanesulfonic acid (PFHxS)	ND		1	0.33	1.1		ng/L	1/30/23 6:48	1/31/23 11:05	RAW	EPA 537.1, Rev 2.0	2
perfluorononanoic acid (PFNA)	ND		1	0.45	1.5		ng/L	1/30/23 6:48	1/31/23 11:05	RAW	EPA 537.1, Rev 2.0	2
perfluorooctanoic acid (PFOA)	ND		1	0.48	1.6		ng/L	1/30/23 6:48	1/31/23 11:05	RAW	EPA 537.1, Rev 2.0	2
perfluorooctanesulfonic acid (PFOS)	ND		1	0.30	0.98		ng/L	1/30/23 6:48	1/31/23 11:05	RAW	EPA 537.1, Rev 2.0	2
perfluorotetradecanoic acid (PFTA)	ND		1	0.33	1.1		ng/L	1/30/23 6:48	1/31/23 11:05	RAW	EPA 537.1, Rev 2.0	2
perfluorotridecanoic acid (PFTTrDA)	ND		1	0.42	1.4		ng/L	1/30/23 6:48	1/31/23 11:05	RAW	EPA 537.1, Rev 2.0	2
perfluoroundecanoic acid (PFUnA)	ND		1	0.29	0.98		ng/L	1/30/23 6:48	1/31/23 11:05	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-PFHxA	98%			Limits: 70-130%				1/30/23 6:48	1/31/23 11:05	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-HFPODA	94%			Limits: 70-130%				1/30/23 6:48	1/31/23 11:05	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-PFDA	95%			Limits: 70-130%				1/30/23 6:48	1/31/23 11:05	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) d5-NEtFOSAA	101%			Limits: 70-130%				1/30/23 6:48	1/31/23 11:05	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	8/31/23





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### Qualifiers and Definitions

Item	Definition
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.

QU 469  
07-29-2001  
Depth 262'  
Casing Depth 40'

**SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD**

NORTHEI

CB00662

Wisconsin Lab Cert. No. 721026460  
WI DATCP 105-000330

Analytical Labor  
400 North Lake  
Tel: (715) 478-



CLIENT <i>Aaron Aschenbrenner</i>	
ADDRESS <i>4541 Stella Lake Rd</i>	
CITY <i>Rhindander</i>	STATE <i>WI</i>
ZIP <i>54501</i>	
PROJECT DESCRIPTION / NO.	QUOTATION NO.
DNR FID #	DNR LICENSE #
CONTACT	PHONE <i>715-401-0188</i>
PURCHASE ORDER NO.	FAX

MATRIX:  
SW = surface water  
WW = waste water  
GW = groundwater  
DW = drinking water  
TIS = tissue  
AIR = air  
SOIL = soil  
SED = sediment  
PROD = product  
SL = sludge  
OTHER

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.  
Indicate G or C if WW Sample is Grab or Composite.



NO.

ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION		MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS	COLLECTION REMARKS (i.e. DNR Well ID #)
			DATE	TIME			
1.			<i>1-20-23</i>	<i>1302</i>	<i>DW</i>		
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							

COLLECTED BY (signature)	CUSTODY SEAL NO. (IF ANY)	DATE/TIME
RELINQUISHED BY (signature)	RECEIVED BY (signature)	DATE/TIME
DISPATCHED BY (signature)	METHOD OF TRANSPORT	DATE/TIME
RECEIVED AT NLS BY (signature) <i>Ally Kane</i>	DATE/TIME <i>1/20/23 1445</i>	TEMP. <i>0.6</i>
COOLER #	REMARKS & OTHER INFORMATION	
PRESERVATIVE: NP = no preservative S = sulfuric acid	N = nitric acid Z = zinc acetate M = methanol OH = sodium hydroxide HA = hydrochloric & ascorbic acid H = hydrochloric acid	WDNR FACILITY NUMBER
		E-MAIL ADDRESS

REPORT TO <i>id 36750 me</i>
INVOICE TO <i>DW 1/20/23</i>

**IMPORTANT:**  
1. TO MEET REGULATORY REQUIREMENTS, THIS FORM MUST BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.  
2. PLEASE USE ONE LINE PER SAMPLE, NCT PER BOTTLE.  
3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP PINK COPY.  
4. PARTIAL COLLECTING SAMPLE, LISTED AS REPORT TO AND LISTED AS INVOICED TO AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.