



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

December 28, 2023

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

Project: 2023 Drinking Water Samples
Project Number: Chuck Oleinik - 4180 Tenderfoot Rd, Rhinelanders, WI 54501
Work Order: CB15353
Received: 12/20/23

Enclosed are the results of analyses for samples received by our laboratory on 12/20/2023. 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 "Ronald T. Krueger".

Ronald T. Krueger For Client Services
Northern Lake Service, Inc.



Rhinelanders Well Drilling Inc
3790 Country Drive (STH 47 N)
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Project Manager: Dean Funk

Reported:
12/28/23 7:37

Work Order:
CB15353

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
CB15353-01	Test Pump	DW			12/20/23 11:00	12/20/23 12:03



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Sample Results

Sample: Test Pump
CB15353-01 (DW) Sampled: 12/20/23 11:00

Analyte	Result	Qualifier	LOD	LOQ	MCL	Units	Date Prepared	Date Analyzed	Analyst	Method	Lab Cert Code
Semi-Volatiles											
11-chloroicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.32	1.0		ng/L	12/21/23 12:00	12/22/23 17:18	RAW	EPA 537.1, Rev 2.0	2
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.35	1.1		ng/L	12/21/23 12:00	12/22/23 17:18	RAW	EPA 537.1, Rev 2.0	2
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.39	1.2		ng/L	12/21/23 12:00	12/22/23 17:18	RAW	EPA 537.1, Rev 2.0	2
hexafluoropropylene oxide dimer acid (HFPO DA)	ND		0.43	1.5		ng/L	12/21/23 12:00	12/22/23 17:18	RAW	EPA 537.1, Rev 2.0	2
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.49	1.7		ng/L	12/21/23 12:00	12/22/23 17:18	RAW	EPA 537.1, Rev 2.0	2
n-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.42	1.4		ng/L	12/21/23 12:00	12/22/23 17:18	RAW	EPA 537.1, Rev 2.0	2
perfluorobutanesulfonic acid (PFBS)	ND		0.31	1.0		ng/L	12/21/23 12:00	12/22/23 17:18	RAW	EPA 537.1, Rev 2.0	2
perfluorodecanoic acid (PFDA)	ND		0.34	1.1		ng/L	12/21/23 12:00	12/22/23 17:18	RAW	EPA 537.1, Rev 2.0	2
perfluorododecanoic acid (PFDoA)	ND		0.24	0.80		ng/L	12/21/23 12:00	12/22/23 17:18	RAW	EPA 537.1, Rev 2.0	2
perfluoroheptanoic acid (PFHpA)	ND		0.46	1.6		ng/L	12/21/23 12:00	12/22/23 17:18	RAW	EPA 537.1, Rev 2.0	2
perfluorohexanoic acid (PFHxA)	ND		0.49	1.7		ng/L	12/21/23 12:00	12/22/23 17:18	RAW	EPA 537.1, Rev 2.0	2
perfluorohexanesulfonic acid (PFHxS)	ND		0.35	1.1		ng/L	12/21/23 12:00	12/22/23 17:18	RAW	EPA 537.1, Rev 2.0	2
perfluorononanoic acid (PFNA)	ND		0.48	1.6		ng/L	12/21/23 12:00	12/22/23 17:18	RAW	EPA 537.1, Rev 2.0	2
perfluorooctanoic acid (PFOA)	ND		0.51	1.7		ng/L	12/21/23 12:00	12/22/23 17:18	RAW	EPA 537.1, Rev 2.0	2
perfluorooctanesulfonic acid (PFOS)	ND		0.32	1.0		ng/L	12/21/23 12:00	12/22/23 17:18	RAW	EPA 537.1, Rev 2.0	2
perfluorotetradecanoic acid (PFTA)	ND		0.35	1.1		ng/L	12/21/23 12:00	12/22/23 17:18	RAW	EPA 537.1, Rev 2.0	2
perfluorotridecanoic acid (PFTrDA)	ND		0.45	1.5		ng/L	12/21/23 12:00	12/22/23 17:18	RAW	EPA 537.1, Rev 2.0	2
perfluoroundecanoic acid (PFUnA)	ND		0.31	1.0		ng/L	12/21/23 12:00	12/22/23 17:18	RAW	EPA 537.1, Rev 2.0	2
<i>Surrogate: (SURR) C13-PFHxA</i>	<i>101%</i>		<i>Limits: 70-130%</i>				<i>12/21/23 12:00</i>	<i>12/22/23 17:18</i>	<i>RAW</i>	<i>EPA 537.1, Rev 2.0</i>	<i>2</i>
<i>Surrogate: (SURR) C13-HFPODA</i>	<i>83%</i>		<i>Limits: 70-130%</i>				<i>12/21/23 12:00</i>	<i>12/22/23 17:18</i>	<i>RAW</i>	<i>EPA 537.1, Rev 2.0</i>	<i>2</i>
<i>Surrogate: (SURR) C13-PFDA</i>	<i>80%</i>		<i>Limits: 70-130%</i>				<i>12/21/23 12:00</i>	<i>12/22/23 17:18</i>	<i>RAW</i>	<i>EPA 537.1, Rev 2.0</i>	<i>2</i>
<i>Surrogate: (SURR) d5-NEtFOSAA</i>	<i>95%</i>		<i>Limits: 70-130%</i>				<i>12/21/23 12:00</i>	<i>12/22/23 17:18</i>	<i>RAW</i>	<i>EPA 537.1, Rev 2.0</i>	<i>2</i>



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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
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.

CB15353



PFAS by EPA Method 537.1 Test Kit
18 PFAS compounds

Return your sample as soon as possible to one of our two locations.

Northern Lake Service
400 N Lake Ave
Crandon, WI 54520

OR

Northern Lake Service
2420 N Grandview Blvd
Waukesha, WI 53188

Chuck Oleinik
4180 Tenderfoot Rd.
Rhinelanders, WI
54501

Please provide the following information:

Name: Rhinelanders Well Drilling, Inc
Address: Po Box 584
City/State/Zip: Rhinelanders WI 54501
Phone: (715) 362-5841 Email: rhdlrwell@gmail.com
Sample Collection Date: 12/20/23 Sample Collection Time: 11:00 AM PM
Sample Collection Location (ex. Pressure Tank) Test Pump
Sample Collected By: Dean Funk
Report by email only Report by mail only (\$5 fee)

Per EPA 537.1, each sample set **must be accompanied by a field blank. The purpose of the field blank is to allow for the identification of potential contamination during sample collection and handling. If you choose not to have the field blank analyzed, the PFAS data may be viewed as a screening and may not be suitable for compliance use.

Please initial in **ONE** of the check boxes below that apply:

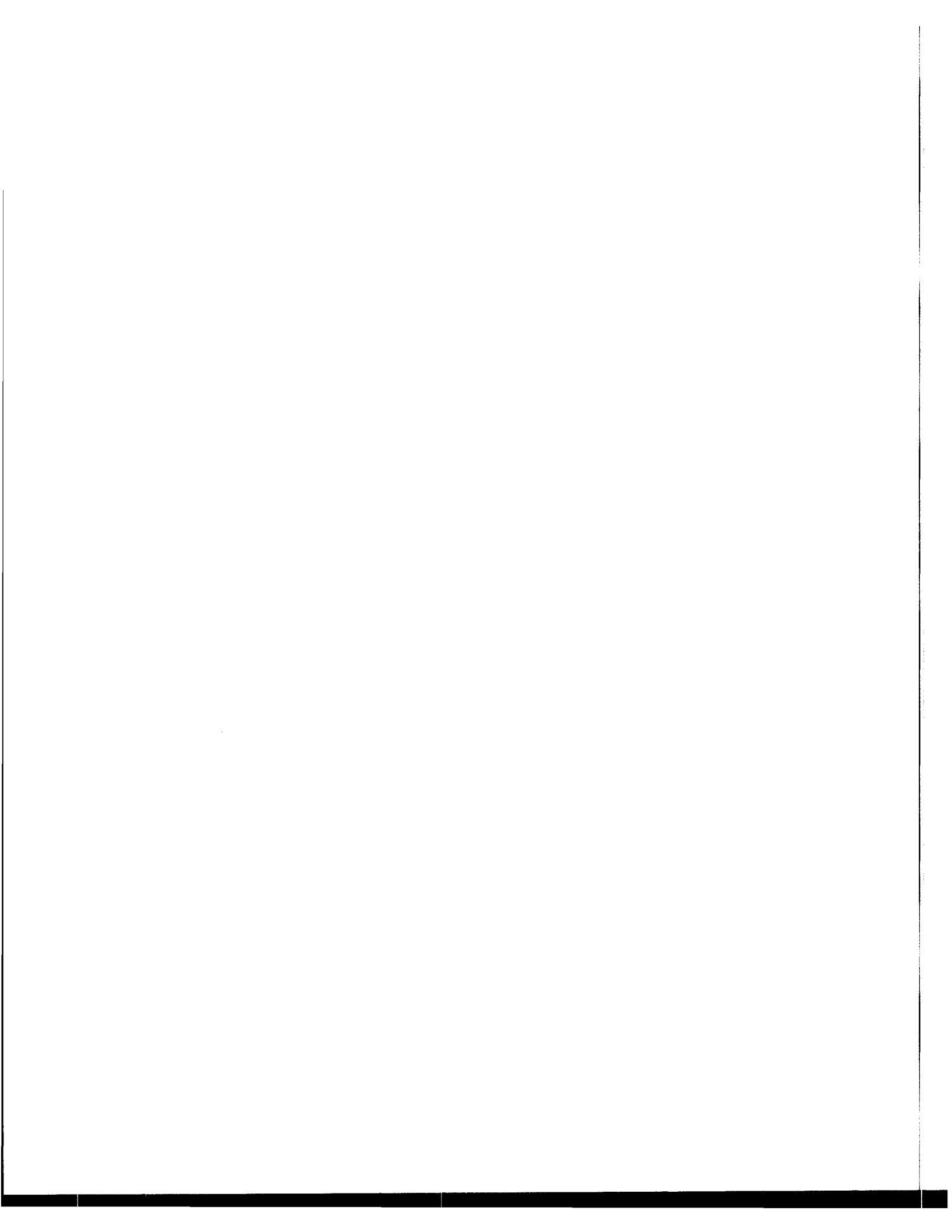
Cost for PFAS Kit Without Field Blank - \$367.50

OR

Cost for PFAS Kit Including Field Blank - \$552.50

Your credit card will be charged according to the option you have chosen above

Dean Funk *12/20/23* *11:03*
online *47*



Rhinelanders Well Drilling Inc

SHIP TO: Dean Funk
3790 Country Drive (STH 47 N)
PO Box 584
Rhinelanders, WI 54501 0584
715-362-5841
Pack in 2 Coolers, 1 set per cooler.

Cust #: 29250
Order #: 112497
Ship Date: 12/12/2023
Type: DW

Shipped as: PU/DO

Sample ID: Drinking Water Samples
2 SETS

PFAS Compounds by EPA Method 537.1 Without Field Blank (18 compounds included in analysis) \$367.50
2 x 250mL Nalgene bottles with Trizma Preservative

Shipped and Completed by: 