



Northern Lake Service, Inc • 400 N Lake Ave • Crandon, WI 54520

800-278-1254 • www.nlslab.com

May 21, 2024

Mark Pauli
Wisconsin Dept of Natural Res - Madison
107 Sutliff Ave
Rhineland, WI 54501

Project: 2024 0.5 Expanded Zone (Starks/Stella)
Project Number: Archie M. Wilson - 3310 Cty Hwy C
Work Order: CC04943
Received: 05/08/24

Enclosed are the results of analyses for samples received by our laboratory on 5/8/2024. 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 that reads "Steven M. Hefter".

Steven M. Hefter For Client Services
Northern Lake Service, Inc.



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107 Sutliff Ave
Rhineland, WI 54501

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Reported:
5/21/24 14:20

Work Order:
CC04943

Sample Summary

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

Lab ID	Sample	Matrix	Qualifiers	Date Sampled	Date Received
CC04943-01	Kitchen Sink	DW		5/8/24 11:00	5/8/24 13:28
CC04943-02	Kitchen Sink Field Blank	DW	Rec-Cust	5/8/24 0:00	5/8/24 13:28

Qualifiers that apply to the entire work order:

Rec-Cust

Cancelled Tests:

Lab ID	Sample	Analysis	Cancelled	Initials
CC04943-02	Kitchen Sink Field Blank	Perfluorinated Chemicals by EPA Method 537.1 FB	5/8/24 13:41	GLJ



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Sample Results

Sample: Kitchen Sink

CC04943-01 (DW) Sampled: 05/08/24 11:00

Analyte	Result	Qualifier	LOD	LOQ	MCL	Units	Date Prepared	Date Analyzed	Analyst	Method	Lab Cert Code
Semi-Volatiles											
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		150	500		ng/L	5/16/24 10:01	5/17/24 13:06	RAW	EPA 537.1, Rev 2.0	2
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		230	750		ng/L	5/16/24 10:01	5/17/24 13:06	RAW	EPA 537.1, Rev 2.0	2
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND		200	650		ng/L	5/16/24 10:01	5/17/24 13:06	RAW	EPA 537.1, Rev 2.0	2
hexafluoropropylene oxide dimer acid (HFPO DA)	ND		460	1500		ng/L	5/16/24 10:01	5/17/24 13:06	RAW	EPA 537.1, Rev 2.0	2
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		320	1000		ng/L	5/16/24 10:01	5/17/24 13:06	RAW	EPA 537.1, Rev 2.0	2
n-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		320	1000		ng/L	5/16/24 10:01	5/17/24 13:06	RAW	EPA 537.1, Rev 2.0	2
perfluorobutanesulfonic acid (PFBS)	ND		360	1200		ng/L	5/16/24 10:01	5/17/24 13:06	RAW	EPA 537.1, Rev 2.0	2
perfluorodecanoic acid (PFDA)	ND		260	900		ng/L	5/16/24 10:01	5/17/24 13:06	RAW	EPA 537.1, Rev 2.0	2
perfluorododecanoic acid (PFDoA)	ND		300	1000		ng/L	5/16/24 10:01	5/17/24 13:06	RAW	EPA 537.1, Rev 2.0	2
perfluoroheptanoic acid (PFHpA)	5000		260	900		ng/L	5/16/24 10:01	5/17/24 13:06	RAW	EPA 537.1, Rev 2.0	2
perfluorohexanoic acid (PFHxA)	4100		240	800		ng/L	5/16/24 10:01	5/17/24 13:06	RAW	EPA 537.1, Rev 2.0	2
perfluorohexanesulfonic acid (PFHxS)	ND		310	1000		ng/L	5/16/24 10:01	5/17/24 13:06	RAW	EPA 537.1, Rev 2.0	2
perfluorononanoic acid (PFNA)	ND		260	850		ng/L	5/16/24 10:01	5/17/24 13:06	RAW	EPA 537.1, Rev 2.0	2
perfluorooctanoic acid (PFOA)	14000		230	750		ng/L	5/16/24 10:01	5/17/24 13:06	RAW	EPA 537.1, Rev 2.0	2
perfluorooctanesulfonic acid (PFOS)	ND		240	800		ng/L	5/16/24 10:01	5/17/24 13:06	RAW	EPA 537.1, Rev 2.0	2
perfluorotetradecanoic acid (PFTA)	ND		260	900		ng/L	5/16/24 10:01	5/17/24 13:06	RAW	EPA 537.1, Rev 2.0	2
perfluorotridecanoic acid (PFTTrDA)	ND		260	900		ng/L	5/16/24 10:01	5/17/24 13:06	RAW	EPA 537.1, Rev 2.0	2
perfluoroundecanoic acid (PFUnA)	ND		260	850		ng/L	5/16/24 10:01	5/17/24 13:06	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-PFHxA	100%		Limits: 70-130%				5/16/24 10:01	5/17/24 13:06	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-HFPODA	98%		Limits: 70-130%				5/16/24 10:01	5/17/24 13:06	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-PFDA	96%		Limits: 70-130%				5/16/24 10:01	5/17/24 13:06	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) d5-NEtFOSAA	93%		Limits: 70-130%				5/16/24 10:01	5/17/24 13:06	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
Rec-Cust	Client ran tap water into FB "B" bottle. No transfer of FB performed.
J	Result is between LOD and LOQ and considered to be within a region of less-certain quantitation.
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.

Sample Collection Record

Town of Stella-Starks Expanded PFAS (537.1) Sampling Project

Return your sample no later than 2 days after collection to:

Northern Lake Service
400 N Lake Ave
Crandon, WI 54520

Please provide the following information:

Name: Archie M Wilson
Address: 3316 CTH C
City/State/Zip: Rhineclander, WI 54501
Phone: 1-715-499-1242
Sample Collection Date: MAY 8, 2024 Sample Collection Time: 11:00 AM/PM
Sample Collection Location (ex. Kitchen Sink):
Sample Collected By (Signature): Archie Wilson

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.

Final results will be reported directly to the Wisconsin DNR. WDNR will review, interpret, and inform residents of further action. **DO NOT CONTACT NORTHERN LAKE SERVICE DIRECTLY FOR SAMPLE RESULTS.**

CC04943



No FB
Tap added to "B"
bottle per client

Laboratory use only:

Received at NLS by (Signature): [Signature] Date/Time: 1:28 pm 5/8/24

Method of Delivery: Hand Condition (on ice / no ice) Ice

Receiving Temperature (°C) 7.9 Thermometer # 10

cooling