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

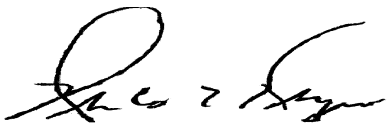
July 11, 2024

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

Project: 2024 0.5 Expanded Zone (Starks/Stella)
Project Number: Todd M. Womack - 3151 Jennifer Road
Work Order: CC07153
Received: 07/01/24

Enclosed are the results of analyses for samples received by our laboratory on 7/1/2024. If you have any questions concerning this report, please feel free to contact a client service representative at clientservices@nlslab.com.

Sincerely,



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

Wisconsin Dept of Natural Res - Madison	Project: 2024 0.5 Expanded Zone (Starks/Stella)		
107 Sutliff Ave	Project Number: Todd M. Womack - 3151 Jennifer Road	**Reported:**	**Work Order:**
Rhinelander, WI 54501	Project Manager: Mark Pauli	7/11/24 8:22	CC07153

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
CC07153-01	Kitchen Sink	DW		7/1/24 9:05	7/1/24 12:15
CC07153-02	Kitchen Sink Field Blank	DW		7/1/24 9:05	7/1/24 12:15

Analysis Qualifiers:

LabNumber	Analysis	Qualifier
CC07153-01	537.1 Perfluorinated Chemicals by LC/MS/MS	FBNA1

Cancelled Tests:

Lab ID	Sample	Analysis	Cancelled	Initials
CC07153-02	Kitchen Sink Field Blank	Perfluorinated Chemicals by EPA Method 537.1 FB	7/11/24 5:55	CSC

Wisconsin Dept of Natural Res - Madison	Project: 2024 0.5 Expanded Zone (Starks/Stella)		
107 Sutliff Ave	Project Number: Todd M. Womack - 3151 Jennifer Road	**Reported:**	**Work Order:**
Rhinelander, WI 54501	Project Manager: Mark Pauli	7/11/24 8:22	CC07153

Sample Results

Sample: Kitchen Sink

CC07153-01 (DW) Sampled: 07/01/24 09:05

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		0.31	1.0		ng/L	7/9/24 5:35	7/9/24 18:39	RAW	EPA 537.1, Rev 2.0	2
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.48	1.6		ng/L	7/9/24 5:35	7/9/24 18:39	RAW	EPA 537.1, Rev 2.0	2
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.42	1.4		ng/L	7/9/24 5:35	7/9/24 18:39	RAW	EPA 537.1, Rev 2.0	2
hexafluoropropylene oxide dimer acid (HFPO DA)	ND		0.95	3.1		ng/L	7/9/24 5:35	7/9/24 18:39	RAW	EPA 537.1, Rev 2.0	2
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	5.9		ng/L	7/9/24 5:35	7/9/24 18:39	RAW	EPA 537.1, Rev 2.0	2
n-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	6.6		ng/L	7/9/24 5:35	7/9/24 18:39	RAW	EPA 537.1, Rev 2.0	2
perfluorobutanesulfonic acid (PFBS)	ND		0.74	2.5		ng/L	7/9/24 5:35	7/9/24 18:39	RAW	EPA 537.1, Rev 2.0	2
perfluorodecanoic acid (PFDA)	ND		0.55	1.9		ng/L	7/9/24 5:35	7/9/24 18:39	RAW	EPA 537.1, Rev 2.0	2
perfluorododecanoic acid (PFDoA)	ND		0.64	2.1		ng/L	7/9/24 5:35	7/9/24 18:39	RAW	EPA 537.1, Rev 2.0	2
perfluoroheptanoic acid (PFHpA)	ND		0.55	1.9		ng/L	7/9/24 5:35	7/9/24 18:39	RAW	EPA 537.1, Rev 2.0	2
perfluorohexanoic acid (PFHxA)	ND		0.57	1.9		ng/L	7/9/24 5:35	7/9/24 18:39	RAW	EPA 537.1, Rev 2.0	2
perfluorohexanesulfonic acid (PFHxS)	ND		0.65	2.2		ng/L	7/9/24 5:35	7/9/24 18:39	RAW	EPA 537.1, Rev 2.0	2
perfluorononanoic acid (PFNA)	ND		0.53	1.8		ng/L	7/9/24 5:35	7/9/24 18:39	RAW	EPA 537.1, Rev 2.0	2
perfluorooctanoic acid (PFOA)	ND		0.48	1.6		ng/L	7/9/24 5:35	7/9/24 18:39	RAW	EPA 537.1, Rev 2.0	2
perfluorooctanesulfonic acid (PFOS)	ND		0.49	1.7		ng/L	7/9/24 5:35	7/9/24 18:39	RAW	EPA 537.1, Rev 2.0	2
perfluorotetradecanoic acid (PFTA)	ND		0.55	1.9		ng/L	7/9/24 5:35	7/9/24 18:39	RAW	EPA 537.1, Rev 2.0	2
perfluorotridecanoic acid (PFTrDA)	ND		0.55	1.9		ng/L	7/9/24 5:35	7/9/24 18:39	RAW	EPA 537.1, Rev 2.0	2
perfluoroundecanoic acid (PFUnA)	ND		0.53	1.8		ng/L	7/9/24 5:35	7/9/24 18:39	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-PFHxA	*95%*		*Limits:*	*70-130%*			*7/9/24 5:35*	*7/9/24 18:39*	*RAW*	*EPA 537.1, Rev 2.0*	2
Surrogate: (SURR) C13-HFPODA	*85%*		*Limits:*	*70-130%*			*7/9/24 5:35*	*7/9/24 18:39*	*RAW*	*EPA 537.1, Rev 2.0*	2
Surrogate: (SURR) C13-PFDA	*89%*		*Limits:*	*70-130%*			*7/9/24 5:35*	*7/9/24 18:39*	*RAW*	*EPA 537.1, Rev 2.0*	2
Surrogate: (SURR) d5-NEtFOSAA	*85%*		*Limits:*	*70-130%*			*7/9/24 5:35*	*7/9/24 18:39*	*RAW*	*EPA 537.1, Rev 2.0*	2

Wisconsin Dept of Natural Res - Madison	Project: 2024 0.5 Expanded Zone (Starks/Stella)		
107 Sutliff Ave	Project Number: Todd M. Womack - 3151 Jennifer Road	**Reported:**	**Work Order:**
Rhinelander, WI 54501	Project Manager: Mark Pauli	7/11/24 8:22	CC07153

List of Certifications

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

Wisconsin Dept of Natural Res - Madison	Project: 2024 0.5 Expanded Zone (Starks/Stella)		
107 Sutliff Ave	Project Number: Todd M. Womack - 3151 Jennifer Road	**Reported:**	**Work Order:**
Rhinelander, WI 54501	Project Manager: Mark Pauli	7/11/24 8:22	CC07153

Qualifiers and Definitions

Item	Definition
FBNA1	The field sample had no detects at or greater than the minimum reporting limit of 2.0 ng/L, per method requirements the corresponding field reagent blank was not required to be analyzed.
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

ALL MAIL DELIVERY TO
* PRIMARY RESIDENCE:
792 Valley Forge Dr.
Slinger, WI 53086

Please provide the following information:

Name: TODD M. WOMACK

(CABIN/ 2ND HOME)

Address: 3151 JENNIFER ROAD } NO MAIL DELIVERY

City/State/Zip: RHINELANDER, WI 54501 }

Phone: Cell (262) 224-1394

Sample Collection Date: 07/01/24 Sample Collection Time: 9:05 AM/PM

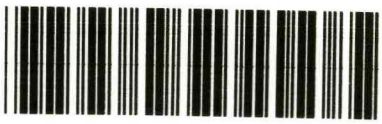
Sample Collection Location (ex. Kitchen Sink): KITCHEN SINK

Sample Collected By (Signature): Todd M Womack

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 SEVICE DIRECTLY FOR SAMPLE RESULTS.**

CC07153



Laboratory use only:

Received at NLS by (Signature): [signature] Date/Time: 07/24 1215

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

Receiving Temperature (°C) 3.8 Thermometer # 10

cooling