



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

800-278-1254 • www.nlslab.com

July 22, 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: Darlene Crombie - 3123 East Cottage Road
Work Order: CC07595
Received: 07/11/24

Enclosed are the results of analyses for samples received by our laboratory on 7/11/2024. 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, appearing to read "Ronald T. Krueger".

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



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

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Reported:
7/22/24 7:37

Work Order:
CC07595

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
CC07595-01	Kitchen Sink	DW		7/11/24 12:50	7/11/24 13:50
CC07595-02	Kitchen Sink Field Blank	DW		7/11/24 12:50	7/11/24 13:50

Analysis Qualifiers:

LabNumber	Analysis	Qualifier
CC07595-01	537.1 Perfluorinated Chemicals by LC/MS/MS	FBNA1

Cancelled Tests:

Lab ID	Sample	Analysis	Cancelled	Initials
CC07595-02	Kitchen Sink Field Blank	Perfluorinated Chemicals by EPA Method 537.1 FB	7/17/24 11:54	CSC



Wisconsin Dept of Natural Res - Madison 107 Sutliff Ave Rhineland, WI 54501	Project: 2024 0.5 Expanded Zone (Starks/Stella) Project Number: Darlene Crombie - 3123 East Cottage Road Project Manager: Mark Pauli	Reported: 7/22/24 7:37	Work Order: CC07595
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Sample Results

Sample: Kitchen Sink
CC07595-01 (DW) Sampled: 07/11/24 12:50

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	7/16/24 6:01	7/16/24 19:48	JPW	EPA 537.1, Rev 2.0	2
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.48	1.6		ng/L	7/16/24 6:01	7/16/24 19:48	JPW	EPA 537.1, Rev 2.0	2
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.42	1.4		ng/L	7/16/24 6:01	7/16/24 19:48	JPW	EPA 537.1, Rev 2.0	2
hexafluoropropylene oxide dimer acid (HFPO DA)	ND		0.95	3.1		ng/L	7/16/24 6:01	7/16/24 19:48	JPW	EPA 537.1, Rev 2.0	2
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	5.9		ng/L	7/16/24 6:01	7/16/24 19:48	JPW	EPA 537.1, Rev 2.0	2
n-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	6.6		ng/L	7/16/24 6:01	7/16/24 19:48	JPW	EPA 537.1, Rev 2.0	2
perfluorobutanesulfonic acid (PFBS)	ND		0.74	2.5		ng/L	7/16/24 6:01	7/16/24 19:48	JPW	EPA 537.1, Rev 2.0	2
perfluorodecanoic acid (PFDA)	ND		0.55	1.9		ng/L	7/16/24 6:01	7/16/24 19:48	JPW	EPA 537.1, Rev 2.0	2
perfluorododecanoic acid (PFDoA)	ND		0.64	2.1		ng/L	7/16/24 6:01	7/16/24 19:48	JPW	EPA 537.1, Rev 2.0	2
perfluoroheptanoic acid (PFHpA)	ND		0.55	1.9		ng/L	7/16/24 6:01	7/16/24 19:48	JPW	EPA 537.1, Rev 2.0	2
perfluorohexanoic acid (PFHxA)	ND		0.57	1.9		ng/L	7/16/24 6:01	7/16/24 19:48	JPW	EPA 537.1, Rev 2.0	2
perfluorohexanesulfonic acid (PFHxS)	ND		0.65	2.2		ng/L	7/16/24 6:01	7/16/24 19:48	JPW	EPA 537.1, Rev 2.0	2
perfluorononanoic acid (PFNA)	ND		0.53	1.8		ng/L	7/16/24 6:01	7/16/24 19:48	JPW	EPA 537.1, Rev 2.0	2
perfluorooctanoic acid (PFOA)	ND		0.48	1.6		ng/L	7/16/24 6:01	7/16/24 19:48	JPW	EPA 537.1, Rev 2.0	2
perfluorooctanesulfonic acid (PFOS)	ND		0.49	1.7		ng/L	7/16/24 6:01	7/16/24 19:48	JPW	EPA 537.1, Rev 2.0	2
perfluorotetradecanoic acid (PFTA)	ND		0.55	1.9		ng/L	7/16/24 6:01	7/16/24 19:48	JPW	EPA 537.1, Rev 2.0	2
perfluorotridecanoic acid (PFTTrDA)	ND		0.55	1.9		ng/L	7/16/24 6:01	7/16/24 19:48	JPW	EPA 537.1, Rev 2.0	2
perfluoroundecanoic acid (PFUnA)	ND		0.53	1.8		ng/L	7/16/24 6:01	7/16/24 19:48	JPW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-PFHxA	92%		Limits: 70-130%				7/16/24 6:01	7/16/24 19:48	JPW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-HFPODA	88%		Limits: 70-130%				7/16/24 6:01	7/16/24 19:48	JPW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-PFDA	87%		Limits: 70-130%				7/16/24 6:01	7/16/24 19:48	JPW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) d5-NEtFOSAA	90%		Limits: 70-130%				7/16/24 6:01	7/16/24 19:48	JPW	EPA 537.1, Rev 2.0	2

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document. No duplication of this report is allowed, except in its entirety.



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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 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

Sample Location

~~Over~~ Summer home
My address in Rhinelander
3123 E Cottage Rd
Rhinelander, WI 54501
*address being tested

Please provide the following information:

Mailing Address

Name: Darlene Crombie

Address: 442 S. Lewis St * Mailing

City/State/Zip: Columbus WI 53925

Phone: 920-350-2618

Sample Collection Date: 7/11/24 Sample Collection Time: 12:50 AM/PM (P)

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

Sample Collected By (Signature): Darlene Crombie

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.**

FRB - "A" Bottle Full + "B" Bottle Full. No transfer.

Call client ~~2:30~~ 14:30 and she confirmed A transfer to B.
Logging FRB as transfer complete. GCT 7/11/24

Laboratory use only:

Received at NLS by (Signature): [Signature] Date/Time: 7/11/24 1350

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

Receiving Temperature (°C) 9.9 Thermometer # 10

cooling