



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

800-278-1254 • www.nlslab.com

August 01, 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: Walter Dahlquist - 3357 Roland Avenue
Work Order: CC08206
Received: 07/23/24

Enclosed are the results of analyses for samples received by our laboratory on 7/23/2024. 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
Rhinelander, WI 54501

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Reported:
8/1/24 7:25

Work Order:
CC08206

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
CC08206-01	Bath	DW		7/18/24 18:00	7/23/24 8:45
CC08206-02	Bath Field Blank	DW		7/18/24 18:00	7/23/24 8:45

Qualifiers that apply to the entire work order:

Rec-Cust

Analysis Qualifiers:

LabNumber	Analysis	Qualifier
CC08206-01	537.1 Perfluorinated Chemicals by LC/MS/MS	FBNA1

Cancelled Tests:

Lab ID	Sample	Analysis	Cancelled	Initials
CC08206-02	Bath Field Blank	Perfluorinated Chemicals by EPA Method 537.1 FB	7/23/24 18:57	GLJ



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Case Narrative

Tests Cancelled: Field Blank A not transferred to Field Blank B. Cancelled Field Blank



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Sample Results

Sample: Bath
CC08206-01 (DW) Sampled: 07/18/24 18:00

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		0.31	1.0		ng/L	7/25/24 6:14	7/25/24 21:57	JPW	EPA 537.1, Rev 2.0	2
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.48	1.6		ng/L	7/25/24 6:14	7/25/24 21:57	JPW	EPA 537.1, Rev 2.0	2
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.42	1.4		ng/L	7/25/24 6:14	7/25/24 21:57	JPW	EPA 537.1, Rev 2.0	2
hexafluoropropylene oxide dimer acid (HFPO DA)	ND		0.95	3.1		ng/L	7/25/24 6:14	7/25/24 21:57	JPW	EPA 537.1, Rev 2.0	2
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	5.9		ng/L	7/25/24 6:14	7/25/24 21:57	JPW	EPA 537.1, Rev 2.0	2
n-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	6.6		ng/L	7/25/24 6:14	7/25/24 21:57	JPW	EPA 537.1, Rev 2.0	2
perfluorobutanesulfonic acid (PFBS)	ND		0.74	2.5		ng/L	7/25/24 6:14	7/25/24 21:57	JPW	EPA 537.1, Rev 2.0	2
perfluorodecanoic acid (PFDA)	ND		0.55	1.9		ng/L	7/25/24 6:14	7/25/24 21:57	JPW	EPA 537.1, Rev 2.0	2
perfluorododecanoic acid (PFDoA)	ND		0.64	2.1		ng/L	7/25/24 6:14	7/25/24 21:57	JPW	EPA 537.1, Rev 2.0	2
perfluoroheptanoic acid (PFHpA)	ND		0.55	1.9		ng/L	7/25/24 6:14	7/25/24 21:57	JPW	EPA 537.1, Rev 2.0	2
perfluorohexanoic acid (PFHxA)	ND		0.57	1.9		ng/L	7/25/24 6:14	7/25/24 21:57	JPW	EPA 537.1, Rev 2.0	2
perfluorohexanesulfonic acid (PFHxS)	ND		0.65	2.2		ng/L	7/25/24 6:14	7/25/24 21:57	JPW	EPA 537.1, Rev 2.0	2
perfluorononanoic acid (PFNA)	ND		0.53	1.8		ng/L	7/25/24 6:14	7/25/24 21:57	JPW	EPA 537.1, Rev 2.0	2
perfluorooctanoic acid (PFOA)	ND		0.48	1.6		ng/L	7/25/24 6:14	7/25/24 21:57	JPW	EPA 537.1, Rev 2.0	2
perfluorooctanesulfonic acid (PFOS)	ND		0.49	1.7		ng/L	7/25/24 6:14	7/25/24 21:57	JPW	EPA 537.1, Rev 2.0	2
perfluorotetradecanoic acid (PFTA)	ND		0.55	1.9		ng/L	7/25/24 6:14	7/25/24 21:57	JPW	EPA 537.1, Rev 2.0	2
perfluorotridecanoic acid (PFTTrDA)	ND		0.55	1.9		ng/L	7/25/24 6:14	7/25/24 21:57	JPW	EPA 537.1, Rev 2.0	2
perfluoroundecanoic acid (PFUnA)	ND		0.53	1.8		ng/L	7/25/24 6:14	7/25/24 21:57	JPW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-PFHxA	90%		Limits: 70-130%				7/25/24 6:14	7/25/24 21:57	JPW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-HFPODA	84%		Limits: 70-130%				7/25/24 6:14	7/25/24 21:57	JPW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-PFDA	88%		Limits: 70-130%				7/25/24 6:14	7/25/24 21:57	JPW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) d5-NEtFOSAA	78%		Limits: 70-130%				7/25/24 6:14	7/25/24 21:57	JPW	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
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.
Rec-Cust	Samples received 5 days after collection. FRB A not transferred to FRB B bottle. Improper FRB process.
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

CC08206



Please provide the following information:

Name: Walter Dahlquist
Address: 3357 Roland Ave
City/State/Zip: Rhineland WI 54501
Phone: 715-493-9902
Sample Collection Date: 7-18-24 Sample Collection Time: 6:00 AM/PM PM
Sample Collection Location (ex. Kitchen Sink): Bath
Sample Collected By (Signature): [Signature]

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.**

- Received 5 days after collection.
- FRB A not transferred to FRB B.
Improper FRB process.

Laboratory use only:

Received at NLS by (Signature): [Signature] Date/Time: 7/23/2024
Method of Delivery: Speedee Condition (on ice / no ice) Blue Ice
Receiving Temperature (°C) 2.4° Thermometer # 12