



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

May 29, 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: Jacqueline A. Ory (Rev Trust) - 4838 Spafford Road
Work Order: CC05447
Received: 05/20/24

Enclosed are the results of analyses for samples received by our laboratory on 5/20/2024. 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.



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Rhineland, WI 54501

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5/29/24 9:19

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CC05447

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
CC05447-01	Kitchen	DW		5/20/24 8:00	5/20/24 9:15
CC05447-02	Kitchen Field Blank	DW		5/20/24 8:00	5/20/24 9:15

Analysis Qualifiers:

LabNumber	Analysis	Qualifier
CC05447-01	537.1 Perfluorinated Chemicals by LC/MS/MS	FBNA1

Cancelled Tests:

Lab ID	Sample	Analysis	Cancelled	Initials
CC05447-02	Kitchen Field Blank	Perfluorinated Chemicals by EPA Method 537.1 FB	5/28/24 13:10	CSC



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Sample Results

Sample: Kitchen

CC05447-01 (DW) Sampled: 05/20/24 08:00

Analyte	Result	Qualifier	LOD	LOQ	MCL	Units	Date Prepared	Date Analyzed	Analyst	Method	Lab Cert Code
Semi-Volatiles											
11-chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.31	1.0		ng/L	5/23/24 12:04	5/25/24 11:27	RAW	EPA 537.1, Rev 2.0	2
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.48	1.6		ng/L	5/23/24 12:04	5/25/24 11:27	RAW	EPA 537.1, Rev 2.0	2
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.42	1.4		ng/L	5/23/24 12:04	5/25/24 11:27	RAW	EPA 537.1, Rev 2.0	2
hexafluoropropylene oxide dimer acid (HFPO DA)	ND		0.95	3.1		ng/L	5/23/24 12:04	5/25/24 11:27	RAW	EPA 537.1, Rev 2.0	2
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.66	2.2		ng/L	5/23/24 12:04	5/25/24 11:27	RAW	EPA 537.1, Rev 2.0	2
n-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.66	2.2		ng/L	5/23/24 12:04	5/25/24 11:27	RAW	EPA 537.1, Rev 2.0	2
perfluorobutanesulfonic acid (PFBS)	ND		0.74	2.5		ng/L	5/23/24 12:04	5/25/24 11:27	RAW	EPA 537.1, Rev 2.0	2
perfluorodecanoic acid (PFDA)	ND		0.55	1.9		ng/L	5/23/24 12:04	5/25/24 11:27	RAW	EPA 537.1, Rev 2.0	2
perfluorododecanoic acid (PFDoA)	ND		0.64	2.1		ng/L	5/23/24 12:04	5/25/24 11:27	RAW	EPA 537.1, Rev 2.0	2
perfluoroheptanoic acid (PFHpA)	ND		0.55	1.9		ng/L	5/23/24 12:04	5/25/24 11:27	RAW	EPA 537.1, Rev 2.0	2
perfluorohexanoic acid (PFHxA)	ND		0.51	1.7		ng/L	5/23/24 12:04	5/25/24 11:27	RAW	EPA 537.1, Rev 2.0	2
perfluorohexanesulfonic acid (PFHxS)	ND		0.65	2.2		ng/L	5/23/24 12:04	5/25/24 11:27	RAW	EPA 537.1, Rev 2.0	2
perfluorononanoic acid (PFNA)	ND		0.53	1.8		ng/L	5/23/24 12:04	5/25/24 11:27	RAW	EPA 537.1, Rev 2.0	2
perfluorooctanoic acid (PFOA)	ND		0.48	1.6		ng/L	5/23/24 12:04	5/25/24 11:27	RAW	EPA 537.1, Rev 2.0	2
perfluorooctanesulfonic acid (PFOS)	ND		0.49	1.7		ng/L	5/23/24 12:04	5/25/24 11:27	RAW	EPA 537.1, Rev 2.0	2
perfluorotetradecanoic acid (PFTA)	ND		0.55	1.9		ng/L	5/23/24 12:04	5/25/24 11:27	RAW	EPA 537.1, Rev 2.0	2
perfluorotridecanoic acid (PFTTrDA)	ND		0.55	1.9		ng/L	5/23/24 12:04	5/25/24 11:27	RAW	EPA 537.1, Rev 2.0	2
perfluoroundecanoic acid (PFUnA)	ND		0.53	1.8		ng/L	5/23/24 12:04	5/25/24 11:27	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-PFHxA	87%		Limits: 70-130%				5/23/24 12:04	5/25/24 11:27	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-HFPODA	85%		Limits: 70-130%				5/23/24 12:04	5/25/24 11:27	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-PFDA	83%		Limits: 70-130%				5/23/24 12:04	5/25/24 11:27	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) d5-NEtFOSAA	79%		Limits: 70-130%				5/23/24 12:04	5/25/24 11:27	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
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: $(\text{mg/kg dry}) / 10000$.
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: Jacqueline A. Ory

Address: 4838 Spafford Rd.

City/State/Zip: Rhinelander, Wi. 54501

Phone: 715-369-4036

Sample Collection Date: 5/20/24 Sample Collection Time: 8:00 AM/PM

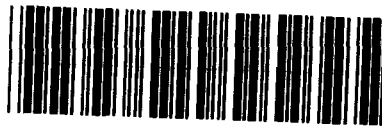
Sample Collection Location (ex. Kitchen Sink): Kitchen

Sample Collected By (Signature): Jacqueline A. Ory

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.**

CC05447



Laboratory use only:

Received at NLS by (Signature): [Signature] Date/Time: 5-20-2024 0915

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

Receiving Temperature (°C) 4.5 Thermometer # 4.53
cooling GLT