



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

October 31, 2024

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

Project: 2024 Starks-Stella (Sunset Lake Phase)
Project Number: Lousie M Perreault - 4043 Camp Bryn Afon Road
Work Order: CC12989
Received: 10/29/24

Enclosed are the results of analyses for samples received by our laboratory on 10/29/2024. 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.



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

Project: 2024 Starks-Stella (Sunset Lake Phase)
Project Number: Lousie M Perreault - 4043 Camp Bryn Afon Road
Project Manager: Mark Pauli

Reported:
10/31/24 17:22

Work Order:
CC12989

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
CC12989-01	Drinking Water	DW		10/28/24 15:50	10/29/24 10:04
CC12989-02	Drinking Water Field Blank	DW		10/28/24 15:50	10/29/24 10:04



Wisconsin Dept of Natural Res - Madison 107 Sutliff Ave Rhineland, WI 54501	Project: 2024 Starks-Stella (Sunset Lake Phase) Project Number: Lousie M Perreault - 4043 Camp Bryn Afon Road Project Manager: Mark Pauli	Reported: 10/31/24 17:22	Work Order: CC12989
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Sample Results

Sample: Drinking Water
CC12989-01 (DW) Sampled: 10/28/24 15:50

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	10/30/24 6:16	10/30/24 19:29	JPW	EPA 537.1, Rev 2.0	2
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.48	1.6		ng/L	10/30/24 6:16	10/30/24 19:29	JPW	EPA 537.1, Rev 2.0	2
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.42	1.4		ng/L	10/30/24 6:16	10/30/24 19:29	JPW	EPA 537.1, Rev 2.0	2
hexafluoropropylene oxide dimer acid (HFPO DA)	ND		0.95	3.1		ng/L	10/30/24 6:16	10/30/24 19:29	JPW	EPA 537.1, Rev 2.0	2
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	5.9		ng/L	10/30/24 6:16	10/30/24 19:29	JPW	EPA 537.1, Rev 2.0	2
n-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	6.6		ng/L	10/30/24 6:16	10/30/24 19:29	JPW	EPA 537.1, Rev 2.0	2
perfluorobutanesulfonic acid (PFBS)	ND		0.74	2.5		ng/L	10/30/24 6:16	10/30/24 19:29	JPW	EPA 537.1, Rev 2.0	2
perfluorodecanoic acid (PFDA)	ND		0.55	1.9		ng/L	10/30/24 6:16	10/30/24 19:29	JPW	EPA 537.1, Rev 2.0	2
perfluorododecanoic acid (PFDoA)	ND		0.64	2.1		ng/L	10/30/24 6:16	10/30/24 19:29	JPW	EPA 537.1, Rev 2.0	2
perfluoroheptanoic acid (PFHpA)	7.6		0.55	1.9		ng/L	10/30/24 6:16	10/30/24 19:29	JPW	EPA 537.1, Rev 2.0	2
perfluorohexanoic acid (PFHxA)	24		0.57	1.9		ng/L	10/30/24 6:16	10/30/24 19:29	JPW	EPA 537.1, Rev 2.0	2
perfluorohexanesulfonic acid (PFHxS)	ND		0.65	2.2		ng/L	10/30/24 6:16	10/30/24 19:29	JPW	EPA 537.1, Rev 2.0	2
perfluorononanoic acid (PFNA)	ND		0.53	1.8		ng/L	10/30/24 6:16	10/30/24 19:29	JPW	EPA 537.1, Rev 2.0	2
perfluorooctanoic acid (PFOA)	ND		0.48	1.6		ng/L	10/30/24 6:16	10/30/24 19:29	JPW	EPA 537.1, Rev 2.0	2
perfluorooctanesulfonic acid (PFOS)	ND		0.49	1.7		ng/L	10/30/24 6:16	10/30/24 19:29	JPW	EPA 537.1, Rev 2.0	2
perfluorotetradecanoic acid (PFTA)	ND		0.55	1.9		ng/L	10/30/24 6:16	10/30/24 19:29	JPW	EPA 537.1, Rev 2.0	2
perfluorotridecanoic acid (PFTTrDA)	ND		0.55	1.9		ng/L	10/30/24 6:16	10/30/24 19:29	JPW	EPA 537.1, Rev 2.0	2
perfluoroundecanoic acid (PFUnA)	ND		0.53	1.8		ng/L	10/30/24 6:16	10/30/24 19:29	JPW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-PFHxA	87%		Limits: 70-130%				10/30/24 6:16	10/30/24 19:29	JPW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-HFPODA	89%		Limits: 70-130%				10/30/24 6:16	10/30/24 19:29	JPW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-PFDA	91%		Limits: 70-130%				10/30/24 6:16	10/30/24 19:29	JPW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) d5-NEtFOSAA	91%		Limits: 70-130%				10/30/24 6:16	10/30/24 19:29	JPW	EPA 537.1, Rev 2.0	2



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Sample: Drinking Water Field Blank

CC12989-02 (DW) Sampled: 10/28/24 15:50

Analyte	Result	Qualifier	LOD	LOQ	MCL	Units	Date Prepared	Date Analyzed	Analyst	Method	Lab Cert Code
Semi-Volatiles											
11-chloroicosafafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.31	1.0		ng/L	10/30/24 6:16	10/30/24 19:54	JPW	EPA 537.1, Rev 2.0	2
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.47	1.5		ng/L	10/30/24 6:16	10/30/24 19:54	JPW	EPA 537.1, Rev 2.0	2
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.41	1.3		ng/L	10/30/24 6:16	10/30/24 19:54	JPW	EPA 537.1, Rev 2.0	2
hexafluoropropylene oxide dimer acid (HFPO DA)	ND		0.93	3.1		ng/L	10/30/24 6:16	10/30/24 19:54	JPW	EPA 537.1, Rev 2.0	2
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.7	5.8		ng/L	10/30/24 6:16	10/30/24 19:54	JPW	EPA 537.1, Rev 2.0	2
n-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.9	6.4		ng/L	10/30/24 6:16	10/30/24 19:54	JPW	EPA 537.1, Rev 2.0	2
perfluorobutanesulfonic acid (PFBS)	ND		0.72	2.4		ng/L	10/30/24 6:16	10/30/24 19:54	JPW	EPA 537.1, Rev 2.0	2
perfluorodecanoic acid (PFDA)	ND		0.54	1.8		ng/L	10/30/24 6:16	10/30/24 19:54	JPW	EPA 537.1, Rev 2.0	2
perfluorododecanoic acid (PFDoA)	ND		0.62	2.0		ng/L	10/30/24 6:16	10/30/24 19:54	JPW	EPA 537.1, Rev 2.0	2
perfluoroheptanoic acid (PFHpA)	ND		0.54	1.8		ng/L	10/30/24 6:16	10/30/24 19:54	JPW	EPA 537.1, Rev 2.0	2
perfluorohexanoic acid (PFHxA)	ND		0.56	1.8		ng/L	10/30/24 6:16	10/30/24 19:54	JPW	EPA 537.1, Rev 2.0	2
perfluorohexanesulfonic acid (PFHxS)	ND		0.63	2.1		ng/L	10/30/24 6:16	10/30/24 19:54	JPW	EPA 537.1, Rev 2.0	2
perfluorononanoic acid (PFNA)	ND		0.52	1.7		ng/L	10/30/24 6:16	10/30/24 19:54	JPW	EPA 537.1, Rev 2.0	2
perfluorooctanoic acid (PFOA)	ND		0.47	1.5		ng/L	10/30/24 6:16	10/30/24 19:54	JPW	EPA 537.1, Rev 2.0	2
perfluorooctanesulfonic acid (PFOS)	ND		0.48	1.6		ng/L	10/30/24 6:16	10/30/24 19:54	JPW	EPA 537.1, Rev 2.0	2
perfluorotetradecanoic acid (PFTA)	ND		0.54	1.8		ng/L	10/30/24 6:16	10/30/24 19:54	JPW	EPA 537.1, Rev 2.0	2
perfluorotridecanoic acid (PFTTrDA)	ND		0.54	1.8		ng/L	10/30/24 6:16	10/30/24 19:54	JPW	EPA 537.1, Rev 2.0	2
perfluoroundecanoic acid (PFUnA)	ND		0.52	1.7		ng/L	10/30/24 6:16	10/30/24 19:54	JPW	EPA 537.1, Rev 2.0	2
<i>Surrogate: (SURR) C13-PFHxA</i>	<i>84%</i>						<i>10/30/24 6:16</i>	<i>10/30/24 19:54</i>	<i>JPW</i>	<i>EPA 537.1, Rev 2.0</i>	<i>2</i>
<i>Surrogate: (SURR) C13-HFPODA</i>	<i>86%</i>						<i>10/30/24 6:16</i>	<i>10/30/24 19:54</i>	<i>JPW</i>	<i>EPA 537.1, Rev 2.0</i>	<i>2</i>
<i>Surrogate: (SURR) C13-PFDA</i>	<i>86%</i>						<i>10/30/24 6:16</i>	<i>10/30/24 19:54</i>	<i>JPW</i>	<i>EPA 537.1, Rev 2.0</i>	<i>2</i>
<i>Surrogate: (SURR) d5-NEtFOSAA</i>	<i>87%</i>						<i>10/30/24 6:16</i>	<i>10/30/24 19:54</i>	<i>JPW</i>	<i>EPA 537.1, Rev 2.0</i>	<i>2</i>



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Reported:
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List of Certifications

Code	Description	Number	Expires
2	NLS (Crandon) WDNR Laboratory ID No.	721026460	8/31/25



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Qualifiers and Definitions

Item	Definition
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.

Perreault, Larive

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

CC12989



CLIENT
WISCONSIN DNR - DRINKING AND GROUNDWATER

ADDRESS
PO BOX 7921, D615

CITY **MADISON** STATE **WI** ZIP **53707**

PROJECT DESCRIPTION / NO.
3.0 MILE EXPANDED QUOTATION NO.

DNR FID # _____ DNR LICENSE # _____

CONTACT **MARK PAULI** PHONE **715-499-0612**

PURCHASE ORDER NO.
0000027864 FAX _____

Wisconsin Lab Cert. No. 721026460
 WI DATCP 105-000330

MATRIX:
 SW = surface water
 WW = waste water
 GW = groundwater
 DW = drinking water
 TIS = tissue
 AIR = air
 SOIL = soil
 SED = sediment
 PROD = product
 SL = sludge
 OTHER _____

USE B _____

Indicate G or C if WW Sample is Grab or Composite.

ANALYZE PER ORDER OF ANALYSIS
EPAMETHOD 537.1

PARAMETER



NO. _____

ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION		MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS	PARAMETER	COLLECTION REMARKS (i.e. DNR Well ID #)
			DATE	TIME				
1.		4043 CAMP BY ANTON	10/28/24	15:50	GW	X		
2.								
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								

ONE SAMPLE PER LINE

COLLECTED BY (signature) *William Robert* CUSTODY SEAL NO. (IF ANY) _____ DATE/TIME **10/28/24 15:50**

RELINQUISHED BY (signature) *William Robert* RECEIVED BY (signature) _____ DATE/TIME **10/29/24 10:00**

DISPATCHED BY (signature) _____ METHOD OF TRANSPORT **hand del** DATE/TIME _____

REPORT TO _____

RECEIVED AT NLS BY (signature) _____ DATE/TIME **10/29/24 1004** CONDITION **on ice** TEMP **2.10**

REMARKS & OTHER INFORMATION
Trizma lot # verified

COOLER # _____ WDNR FACILITY NUMBER _____ E-MAIL ADDRESS _____

PRESERVATIVE: N = nitric acid OH = sodium hydroxide
 NP = no preservative Z = zinc acetate HA = hydrochloric & ascorbic acid
 S = sulfuric acid M = methanol H = hydrochloric acid

INVOICE TO _____

IMPORTANT:

1. TO MEET REGULATORY REQUIREMENTS, THIS FORM MUST BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.
2. PLEASE USE ONE LINE PER SAMPLE, NOT PER BOTTLE.
3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP PINK COPY.
4. PARTIES COLLECTING SAMPLE, LISTED AS REPORT TO AND LISTED AS INVOICED TO AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.