

From: Danfield, Bill -FS <bill.danfield@usda.gov>
Sent: Wednesday, August 21, 2019 9:15 AM
To: Stoltz, Carrie R - DNR
Cc: DonnerWright, Deahn -FS
Subject: FW: NLS Project Completed: 327217 PFAS -- NORTHERN LAKE SERVICE, INC.
Attachments: Final327217.pdf; Final_tmplt_537PPT.pdf; COC_OA_327217.pdf

Carrie, we're working on our reply regarding our facility operations past and present as a possible source of PFAS compounds.

On August 2nd I took water samples and we received the analysis results for NLS this morning with ND's for the series of testing for PFAS compounds for our well here at the Lab.

We'll be sending you our response to the inquiry in the mail unless an electronic final version is acceptable.

Thought you'd appreciate receiving this information.

-----Original Message-----

From: Client Services at Northern Lake Service, Inc [mailto:clientservices@nlslab.com]
Sent: Wednesday, August 21, 2019 8:02 AM
To: Danfield, Bill -FS <bill.danfield@usda.gov>
Subject: NLS Project Completed: 327217 PFAS -- NORTHERN LAKE SERVICE, INC.

Attached is the final report from Northern Lake Service for completed project 327217 -- PFAS

If you have any questions regarding this project, please contact Sara Bach (sarab@nlslab.com) at our Waukesha lab or Kristin Tienor (kristint@nlslab.com) at our Crandon lab via email or by phone at (715) 478-2777. Hard copy reports will still be mailed out.

DISCLAIMER:

The information contained in this e-mail may be confidential and is intended solely for the use of the named addressee. Access, copying or re-use of the e-mail or any information contained therein by any other person is not authorized. If you are not the intended recipient please notify us immediately by returning the e-mail to the originator.

GO GREEN! Contact us if you are interested in receiving your reports and invoices electronically

This electronic message contains information generated by the USDA solely for the intended recipients. Any unauthorized interception of this message or the use or disclosure of the information it contains may violate the law and subject the violator to civil or criminal penalties. If you believe you have received this message in error, please notify the sender and delete the email immediately.

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services

400 North Lake Avenue • Crandon, WI 54520-1298

Tel: (715) 478-2777 • Fax: (715) 478-3060

CLIENT FORESTRY SCIENCES LAB		
ADDRESS 5985 CTY HWYK		
CITY RHINELANDER WI	STATE WI	ZIP 54501
PROJECT DESCRIPTION / NO.		QUOTATION NO.
DNR FID #	DNR LICENSE #	
CONTACT BILL DANFIELD	PHONE 715-362-1133	
PURCHASE ORDER NO.	FAX 715-362-1166	

Wisconsin DNR cert ID
721026460 (Cran) / 268533760 (Wauk)
Wisconsin DATCP ID
105-000330 (Cran) / 105-000479 (Wauk)

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

ANALYZE PER ORDER OF ANALYSIS	USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered. Indicate G or C if WW Sample is Grab or Composite.									
	G	G								
PFAS										



NO. **238042**

ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION		MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS	PFAS	G	G								COLLECTION REMARKS (i.e. DNR Well ID #)
			DATE	TIME													
1.	1138	01 PFAS	8.2.19	9:00AM	DW		X										WELL ENTRY POINT
2.	1138	02 PFAS	8.2.19	9:02AM	DW		Y										WI
3.																	PWS 74402042
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

COLLECTED BY (signature) <i>William Danfield</i>	CUSTODY SEAL NO. (IF ANY)	DATE/TIME 8.2.2019 9:00AM	REPORT TO SAME
RELINQUISHED BY (signature) <i>William Danfield</i>	RECEIVED BY (signature) <i>William Danfield</i>	DATE/TIME 8/2/19 10:55AM	
DISPATCHED BY (signature)	METHOD OF TRANSPORT	DATE/TIME	
RECEIVED AT NLS BY (signature) <i>Jack Braun</i>	DATE/TIME 8/2/19 1055	CONDITION OK	TEMP. 3.1° C
COOLER #	REMARKS & OTHER INFORMATION #1 USB		INVOICE TO SAME
PRESERVATIVE: NP = no preservative S = sulfuric acid	N = nitric acid Z = zinc acetate M = methanol	OH = sodium hydroxide HA = hydrochloric & ascorbic acid H = hydrochloric acid	WDNR FACILITY NUMBER
		E-MAIL ADDRESS	

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 YELLOW COPY.
4. PARTIES COLLECTING SAMPLE, LISTED AS **REPORT TO** AND LISTED AS **INVOICE TO** AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105-330
EPA Laboratory ID No. WI00034

Printed: 08/21/19 Page 1 of 1

Client: USDA/Forestry Sciences Lab
Attn: Bill Danfield
5985 Highway K
Rhineland, WI 54501

NLS Project: 327217

NLS Customer: 35691

Fax: 715 362 1166 Phone: 715 362 1133

Project: PFAS

01/02 PFAS NLS ID: 1138134

COC: 238042:1 Matrix: DW

Collected: 08/02/19 09:00 Received: 08/02/19

Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
Perfluorinated Chemicals by EPA Method 537.1	see attached					08/13/19	EPA 537 Rev 1.1	721026460
Solid Phase Extraction by EPA Method 537.1	yes					08/07/19	EPA 537	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

ND = Not Detected (< LOD) LOD = Limit of Detection LOQ = Limit of Quantitation NA = Not Applicable

DWB = Dry Weight Basis %DWB = (mg/kg DWB) / 10000 1000 ug/L = 1 mg/L

MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:



Authorized by:
R. T. Krueger
President

ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA 537 Rev 1.1 Safe Drinking Water Analysis

Customer: USDA/Forestry Sciences Lab NLS Project: 327217

Project Description: PFAS

Project Title: Template: 537PPT Printed: 08/21/2019 07:45

Sample: 1138134 01/02 PFAS Collected: 08/02/19 Analyzed: 08/13/19 - Analytes: 12

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	1	6.6	20.9		
perfluorohexanoic acid (PFHxA)	ND	ppt	1	1.3	4.0		
perfluoroheptanoic acid (PFHpA)	ND	ppt	1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	ND	ppt	1	2.8	8.8		
perfluorooctanoic acid (PFOA)	ND	ppt	1	1.2	3.9		
perfluorononanoic acid (PFNA)	ND	ppt	1	1.5	4.9		
perfluorooctanesulfonic acid (PFOS)	ND	ppt	1	1.7	5.3		
perfluorodecanoic acid (PFDA)	ND	ppt	1	0.90	2.7		
perfluoroundecanoic acid (PFUnA)	ND	ppt	1	1.0	3.0		
perfluorododecanoic acid (PFDoA)	ND	ppt	1	1.9	6.1		
perfluorotridecanoic acid (PFTrDA)	ND	ppt	1	3.2	10.3		
perfluorotetradecanoic acid (PFTA)	ND	ppt	1	2.8	8.9		
C13-PFHxA (SURR)	70.954%		1				S
C13-PFDA (SURR)	90.64%		1				S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

The PFOA branch isotope peak is included in the PFOA calculation per EPA directive.