

## Schmenk, Colin R - DNR

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**From:** Chronert, Roxanne N - DNR  
**Sent:** Thursday, July 5, 2018 1:03 PM  
**To:** Merry, JaNelle P - DNR; Neste, David E - DNR  
**Subject:** FW: [WARNING: ATTACHMENT(S) MAY CONTAIN MALWARE]NLS Final Report: 301572 PFC Well Testing  
**Attachments:** Final301572\_manual\_02-JUL-18.pdf; Final\_tmplt\_537PPT2\_manual\_02-JUL-18.pdf; COC\_OA\_301572.pdf

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Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

**Roxanne Nelezen Chronert**

Phone: (920) 662-5120  
Roxanne.Chronert@Wisconsin.gov

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**From:** Warren Howard [mailto:whoward@marinette.wi.us]  
**Sent:** Thursday, July 5, 2018 12:43 PM  
**To:** Chronert, Roxanne N - DNR <Roxanne.Chronert@wisconsin.gov>  
**Cc:** O'Connor, Kelley S - DNR <Kelley.OConnor@wisconsin.gov>; Steve Genisot <sgenisot@marinette.wi.us>  
**Subject:** FW: [WARNING: ATTACHMENT(S) MAY CONTAIN MALWARE]NLS Final Report: 301572 PFC Well Testing

Hi Roxanne,

Here are results from the private drinking water wells that the Mayor had requested we sample in the City limits . Please review and forward as you see fit.

Thanks, Warren

Warren Howard  
Marinette Water and Wastewater Utility  
Operations Manager

501 Water Street  
Marinette, WI 54143  
Phone: 715-938-0811

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**From:** Warren Howard  
**Sent:** Thursday, July 05, 2018 10:42 AM  
**To:** Steve Genisot  
**Cc:** Jonathan Sbar; Brian Miller  
**Subject:** FW: [WARNING: ATTACHMENT(S) MAY CONTAIN MALWARE]NLS Final Report: 301572 PFC Well Testing

Hi Mayor,

Here are the results from the private wells in City we have sampled so far. There are only 2 that have not been sampled. One is on 3911 Hall Ave where when we went to sample there the owner was in the process of moving and said the

house is going to be torn down and that they have not been drinking the water there . I told him I needed a letter for my file and I have received that letter and will send it to you. The second was the property located at 4161 West Frontage Rd and waiting to hear back about getting a sample. Of the 5 places sampled this time, only 2 have detected PSA's. 2907 Taylor St. and 2017 Marinette Ave (Wagner –Casper Insurance).  
Let me know when we all can meet to discuss results.  
Thanks, Warren

Warren Howard  
Marinette Water and Wastewater Utility  
Operations Manager

501 Water Street  
Marinette, WI 54143  
Phone: 715-938-0811

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**From:** Andy Ostrowski [<mailto:andyo@nslab.com>]  
**Sent:** Monday, July 02, 2018 2:28 PM  
**To:** Warren Howard; Gabriel Aschbacher  
**Subject:** [WARNING: ATTACHMENT(S) MAY CONTAIN MALWARE]NLS Final Report: 301572 PFC Well Testing

Attached is the final report from Northern Lake Service for completed project 301572 -- PFC Well Testing

If you have any questions regarding this project, please contact Sara Bach ([sarab@nslab.com](mailto:sarab@nslab.com)) at our Waukesha lab or Nicole Pruess ([nicolep@nslab.com](mailto:nicolep@nslab.com)) at our Crandon lab via email or by phone at (715) 478-2777. Hard copy reports will still be mailed out.

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# ANALYTICAL REPORT

**Client:** Marinette Wastewater Utility  
 Attn: Warren Howard  
 501 Water Street  
 Marinette, WI 54143

**NLS Project:** 301572

**NLS Customer:** 20089

**Fax:** 715 732 5482 **Phone:** 715 732 5184

**Project:** PFC Well Testing

2907 Taylor NLS ID: 1061607

COC: 213235:1 Matrix: DW  
 Collected: 06/14/18 09:47 Received: 06/15/18

Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
Perfluorinated Chemicals by EPA Method 537 Rev 1.1	see attached					06/27/18	EPA 537 Rev 1.1	721026460
Solid Phase Extraction by EPA Method 537	yes					06/22/18	EPA 537	721026460

4030 Hall Ave NLS ID: 1061608

COC: 213235:2 Matrix: DW  
 Collected: 06/14/18 10:23 Received: 06/15/18

Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
Perfluorinated Chemicals by EPA Method 537 Rev 1.1	see attached					06/27/18	EPA 537 Rev 1.1	721026460
Solid Phase Extraction by EPA Method 537	yes					06/22/18	EPA 537	721026460

2017 Marinette Ave NLS ID: 1061609

COC: 213235:3 Matrix: DW  
 Collected: 06/14/18 10:37 Received: 06/15/18

Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
Perfluorinated Chemicals by EPA Method 537 Rev 1.1	see attached					06/27/18	EPA 537 Rev 1.1	721026460
Solid Phase Extraction by EPA Method 537	yes					06/22/18	EPA 537	721026460

2025 Marinette Ave NLS ID: 1061610

COC: 213235:4 Matrix: DW  
 Collected: 06/14/18 10:54 Received: 06/15/18

Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
Perfluorinated Chemicals by EPA Method 537 Rev 1.1	see attached					06/27/18	EPA 537 Rev 1.1	721026460
Solid Phase Extraction by EPA Method 537	yes					06/22/18	EPA 537	721026460

2033 Marinette Ave NLS ID: 1061611

COC: 213235:5 Matrix: DW  
 Collected: 06/14/18 11:03 Received: 06/15/18

Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
Perfluorinated Chemicals by EPA Method 537 Rev 1.1	see attached					06/27/18	EPA 537 Rev 1.1	721026460
Solid Phase Extraction by EPA Method 537	yes					06/22/18	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

# SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

# NORTHERN LAKE SERVICE, INC.

CLIENT <i>Marine the WWTP</i>	
ADDRESS <i>1603 Ely Street</i>	
CITY <i>Marinette</i>	STATE <i>WI</i>
ZIP <i>54143</i>	
PROJECT DESCRIPTION / NO. <i>PFC Well testing</i>	QUOTATION NO.
DNR FID #	DNR LICENSE #
CONTACT <i>Gabriel Aschbacher</i>	PHONE <i>715-923-0768</i>
PURCHASE ORDER NO.	FAX

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

Analytical Laboratory and Environmental Services  
400 North Lake Avenue • Crandon, WI 54520-1298  
Tel: (715) 478-2777 • Fax: (715) 478-3060

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 BOXES BELOW: Indicate Y or N if GW Sample is field filtered.  
Indicate G or C if WW Sample is Grab or Composite.



NO. **213235**

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.	<i>1061607</i>	<i>2907 Taylor</i>	<i>6-14-18</i>	<i>0947</i>	<i>DW</i>	<i>X</i>													
2.	<i>608</i>	<i>4030 Hall Ave</i>	<i>6-14-18</i>	<i>1023</i>	<i>DW</i>	<i>X</i>													
3.	<i>609</i>	<i>2017 Marinette Ave</i>	<i>6-14-18</i>	<i>1037</i>	<i>DW</i>	<i>X</i>													
4.	<i>610</i>	<i>2025 Marinette Ave</i>	<i>6-14-18</i>	<i>1054</i>	<i>DW</i>	<i>X</i>													
5.	<i>611</i>	<i>2033 Marinette Ave</i>	<i>6-18-18</i>	<i>1103</i>	<i>DW</i>	<i>X</i>													
6.																			
7.																			
8.																			
9.																			
10.																			

COLLECTED BY (signature) <i>[Signature]</i>	CUSTODY SEAL NO. (IF ANY)	DATE/TIME <i>6-14-18 1103</i>
RELINQUISHED BY (signature)	RECEIVED BY (signature)	DATE/TIME
DISPATCHED BY (signature) <i>[Signature]</i>	METHOD OF TRANSPORT <i>UPS Ground</i>	DATE/TIME <i>6-14-18 1500</i>
RECEIVED AT NLS BY (signature) <i>[Signature]</i>	DATE/TIME <i>6/15/18 1015</i>	CONDITION <i>Good</i>
COOLER #	REMARKS & OTHER INFORMATION <i>#1 US13</i>	TEMP. <i>2.8c</i>
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	

REPORT TO
INVOICE TO

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

**IMPORTANT:**

# NORTHERN LAKE SERVICE, INC.

400 NORTH LAKE AVENUE

CRANDON, WI 54520 (715) 478-2777

## ORDER OF ANALYSIS

<b>RESULTS ORDERED BY:</b> Gabriel Aschbacher Marinette WWTP LAB 1603 Ely Street Marinette, WI 54143	<b>CHAIN OF CUSTODY RECORD NUMBER:</b> 213235
	<b>QUOTATION NUMBER:</b>
	<b>ANALYZE FOR DISSOLVED OR TOTAL PARAMETERS?</b>
<b>SEND RESULTS TO:</b> Warren Howard Marinette WWTP LAB 501 Water Street Marinette, WI 54143	<b>SEND INVOICE TO:</b> Marinette Wastewater Utility 501 Water Street Marinette, WI 54143

Samples on line(s) : 1 through 5 to be analyzed for the parameters below:

Perflourinated Compounds (Method 537)

Special Instructions: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**CLIENT: Marinette Wastewater Utility**  
501 Water Street  
Marinette, WI 54143  
715-732-5184  
Investigative Samples

**SHIP TO: Gabe Aschbacher**  
1603 Ely Street  
Marinette, WI 54143  
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**Cust #: 20089**  
**Order #: 63993**  
**Ship Date: 05/31/2018**  
**Type: DW**

**Sample ID: 537 kits, with No Field Blanks**  
**6 SETS**

EPA 537 -- 2 x 250mL 1.25g Trizma

*A reminder to our public drinking water customers, NLS is fully certified for SDWA coliform testing. If you are interested in a quote for your regular bacteria testing please call our client service department at 715-478-2777*

**PLEASE SUBMIT COMPLETED DNR FORMS WITH SAMPLES.**  
**NLS IS REQUIRED TO SEND RESULTS DIRECTLY TO DNR PER NR809.80(4).**

**Shipped and Completed by: \_\_\_\_\_**

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

**Customer: Marinette Wastewater Utility NLS Project: 301572**

**Project Description: PFC Well Testing**

**Project Title: Template: 537PPT2 Printed: 07/02/2018 14:27**

Sample: 1061607 2907 Taylor Collected: 06/14/18 Analyzed: 06/27/18 - Analytes: 12

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	1	3.6	11		
perfluorohexanoic acid (PFHxA)	3.78	ppt	1	0.83	2.6		
perfluoroheptanoic acid (PFHpA)	3.35	ppt	1	0.45	1.4		
perfluorohexanesulfonic acid (PFHxS)	[1.61]	ppt	1	1.3	4.1		J
perfluorooctanoic acid (PFOA)	3.44	ppt	1	0.70	2.2		
perfluorononanoic acid (PFNA)	ND	ppt	1	1.3	4.1		
perfluorooctanesulfonic acid (PFOS)	ND	ppt	1	1.5	4.7		
perfluorodecanoic acid (PFDA)	ND	ppt	1	1.2	3.8		
perfluoroundecanoic acid (PFUnA)	ND	ppt	1	1.2	3.7		
perfluorododecanoic acid (PFDoA)	ND	ppt	1	0.95	3.0		
perfluorotridecanoic acid (PFTrDA)	ND	ppt	1	0.97	3.1		
perfluorotetradecanoic acid (PFTA)	ND	ppt	1	0.88	2.8		
C13-PFHxA (SURR)	78.719%		1				S
C13-PFDA (SURR)	86.917%		1				S

**NOTES APPLICABLE TO THIS ANALYSIS:**

J = Result enclosed in brackets is between LOD and LOQ, a region of less certain quantitation.  
 S = This compound is a surrogate used to evaluate the quality control of a method.

Sample: 1061608 4030 Hall Ave Collected: 06/14/18 Analyzed: 06/27/18 - Analytes: 12

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	1	3.6	11		
perfluorohexanoic acid (PFHxA)	ND	ppt	1	0.83	2.6		
perfluoroheptanoic acid (PFHpA)	ND	ppt	1	0.45	1.4		
perfluorohexanesulfonic acid (PFHxS)	ND	ppt	1	1.3	4.1		
perfluorooctanoic acid (PFOA)	ND	ppt	1	0.70	2.2		
perfluorononanoic acid (PFNA)	ND	ppt	1	1.3	4.1		
perfluorooctanesulfonic acid (PFOS)	ND	ppt	1	1.5	4.7		
perfluorodecanoic acid (PFDA)	ND	ppt	1	1.2	3.8		
perfluoroundecanoic acid (PFUnA)	ND	ppt	1	1.2	3.7		
perfluorododecanoic acid (PFDoA)	ND	ppt	1	0.95	3.0		
perfluorotridecanoic acid (PFTrDA)	ND	ppt	1	0.97	3.1		
perfluorotetradecanoic acid (PFTA)	ND	ppt	1	0.88	2.8		
C13-PFHxA (SURR)	90.765%		1				S
C13-PFDA (SURR)	95.808%		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.

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

**Customer: Marinette Wastewater Utility NLS Project: 301572**

**Project Description: PFC Well Testing**

**Project Title: Template: 537PPT2 Printed: 07/02/2018 14:27**

Sample: 1061609 2017 Marinette Ave Collected: 06/14/18 Analyzed: 06/27/18 - Analytes: 12

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	1	3.6	11		
perfluorohexanoic acid (PFHxA)	5.07	ppt	1	0.83	2.6		
perfluoroheptanoic acid (PFHpA)	4.37	ppt	1	0.45	1.4		
perfluorohexanesulfonic acid (PFHxS)	ND	ppt	1	1.3	4.1		
perfluorooctanoic acid (PFOA)	3.64	ppt	1	0.70	2.2		
perfluorononanoic acid (PFNA)	ND	ppt	1	1.3	4.1		
perfluorooctanesulfonic acid (PFOS)	ND	ppt	1	1.5	4.7		
perfluorodecanoic acid (PFDA)	ND	ppt	1	1.2	3.8		
perfluoroundecanoic acid (PFUnA)	ND	ppt	1	1.2	3.7		
perfluorododecanoic acid (PFDoA)	ND	ppt	1	0.95	3.0		
perfluorotridecanoic acid (PFTrDA)	ND	ppt	1	0.97	3.1		
perfluorotetradecanoic acid (PFTA)	ND	ppt	1	0.88	2.8		
C13-PFHxA (SURR)	83.165%		1				S
C13-PFDA (SURR)	91.154%		1				S

**NOTES APPLICABLE TO THIS ANALYSIS:**

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

Sample: 1061610 2025 Marinette Ave Collected: 06/14/18 Analyzed: 06/27/18 - Analytes: 12

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	1	3.6	11		
perfluorohexanoic acid (PFHxA)	ND	ppt	1	0.83	2.6		
perfluoroheptanoic acid (PFHpA)	ND	ppt	1	0.45	1.4		
perfluorohexanesulfonic acid (PFHxS)	ND	ppt	1	1.3	4.1		
perfluorooctanoic acid (PFOA)	ND	ppt	1	0.70	2.2		
perfluorononanoic acid (PFNA)	ND	ppt	1	1.3	4.1		
perfluorooctanesulfonic acid (PFOS)	ND	ppt	1	1.5	4.7		
perfluorodecanoic acid (PFDA)	ND	ppt	1	1.2	3.8		
perfluoroundecanoic acid (PFUnA)	ND	ppt	1	1.2	3.7		
perfluorododecanoic acid (PFDoA)	ND	ppt	1	0.95	3.0		
perfluorotridecanoic acid (PFTrDA)	ND	ppt	1	0.97	3.1		
perfluorotetradecanoic acid (PFTA)	ND	ppt	1	0.88	2.8		
C13-PFHxA (SURR)	88.382%		1				S
C13-PFDA (SURR)	89.798%		1				S

**NOTES APPLICABLE TO THIS ANALYSIS:**

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



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

Customer: Marinette Wastewater Utility NLS Project: 301572

Project Description: PFC Well Testing

Project Title: Template: 537PPT2 Printed: 07/02/2018 14:27

Sample: 1061611 2033 Marinette Ave Collected: 06/14/18 Analyzed: 06/27/18 - Analytes: 12

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	1	3.6	11		
perfluorohexanoic acid (PFHxA)	ND	ppt	1	0.83	2.6		
perfluoroheptanoic acid (PFHpA)	ND	ppt	1	0.45	1.4		
perfluorohexanesulfonic acid (PFHxS)	ND	ppt	1	1.3	4.1		
perfluorooctanoic acid (PFOA)	ND	ppt	1	0.70	2.2		
perfluorononanoic acid (PFNA)	ND	ppt	1	1.3	4.1		
perfluorooctanesulfonic acid (PFOS)	ND	ppt	1	1.5	4.7		
perfluorodecanoic acid (PFDA)	ND	ppt	1	1.2	3.8		
perfluoroundecanoic acid (PFUnA)	ND	ppt	1	1.2	3.7		
perfluorododecanoic acid (PFDoA)	ND	ppt	1	0.95	3.0		
perfluorotridecanoic acid (PFTrDA)	ND	ppt	1	0.97	3.1		
perfluorotetradecanoic acid (PFTA)	ND	ppt	1	0.88	2.8		
C13-PFHxA (SURR)	89.834%		1				S
C13-PFDA (SURR)	93.782%		1				S

**NOTES APPLICABLE TO THIS ANALYSIS:**

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

## Schmenk, Colin R - DNR

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**From:** Chronert, Roxanne N - DNR  
**Sent:** Thursday, July 5, 2018 2:43 PM  
**To:** Neste, David E - DNR; Merry, JaNelle P - DNR  
**Subject:** FW: from copier id# 1379  
**Attachments:** SKM\_C364e18070511510.pdf

**We are committed to service excellence.**

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

**Roxanne Nelezen Chronert**

Phone: (920) 662-5120  
Roxanne.Chronert@Wisconsin.gov

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**From:** Warren Howard [mailto:whoward@marinette.wi.us]  
**Sent:** Thursday, July 5, 2018 1:24 PM  
**To:** Steve Genisot <sgenisot@marinette.wi.us>  
**Cc:** Jonathan Sbar <jsbar@marinette.wi.us>; Brian Miller <bmillier@marinette.wi.us>; Chronert, Roxanne N - DNR <Roxanne.Chronert@wisconsin.gov>; O'Connor, Kelley S - DNR <Kelley.OConnor@wisconsin.gov>  
**Subject:** FW: from copier id# 1379

Hi Everyone,

Here is a map of private drinking water wells in the City of Marinette. The City sampled 5 and Tyco sampled 3.  
ND = No detect.  
Thanks, Warren

Warren Howard  
Marinette Water and Wastewater Utility  
Operations Manager

501 Water Street  
Marinette, WI 54143  
Phone: 715-938-0811

**From:** [copier@scannedmail.com](mailto:copier@scannedmail.com) [mailto:copier@scannedmail.com]  
**Sent:** Thursday, July 05, 2018 11:52 AM  
**To:** Warren Howard  
**Subject:** from copier id# 1379

Customers with Drinking Wells

