

**Notice:** Use this form to request a **written response (on agency letterhead)** from the Department of Natural Resources (DNR) regarding technical assistance, a post-closure change to a site, a specialized agreement or liability clarification for Property with known or suspected environmental contamination. A fee will be required as is authorized by s. 292.55, Wis. Stats., and NR 749, Wis. Adm. Code., unless noted in the instructions below. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

## Definitions

**"Property"** refers to the subject Property that is perceived to have been or has been impacted by the discharge of hazardous substances.

**"Liability Clarification"** refers to a written determination by the Department provided in response to a request made on this form. The response clarifies whether a person is or may become liable for the environmental contamination of a Property, as provided in s. 292.55, Wis. Stats.

**"Technical Assistance"** refers to the Department's assistance or comments on the planning and implementation of an environmental investigation or environmental cleanup on a Property in response to a request made on this form as provided in s. 292.55, Wis. Stats.

**"Post-closure modification"** refers to changes to Property boundaries and/or continuing obligations for Properties or sites that received closure letters for which continuing obligations have been applied or where contamination remains. Many, but not all, of these sites are included on the GIS Registry layer of RR Sites Map to provide public notice of residual contamination and continuing obligations.

## Select the Correct Form

This form should be used to request the following from the DNR:

- Technical Assistance
- Liability Clarification
- Post-Closure Modifications
- Specialized Agreements (tax cancellation, negotiated agreements, etc.)

Do **not** use this form if one of the following applies:

- Request for an **off-site liability exemption or clarification** for Property that has been or is perceived to be contaminated by one or more hazardous substances that originated on another Property containing the source of the contamination. Use DNR's Off-Site Liability Exemption and Liability Clarification Application Form 4400-201.
- Submittal of an Environmental Assessment for the **Lender Liability Exemption**, s 292.21, Wis. Stats., **if no response or review by DNR is requested**. Use the Lender Liability Exemption Environmental Assessment Tracking Form 4400-196.
- Request for an **exemption to develop on a historic fill site** or licensed landfill. Use DNR's Form 4400-226 or 4400-226A.
- **Request for closure** for Property where the investigation and cleanup actions are completed. Use DNR's Case Closure - GIS Registry Form 4400-202.

All forms, publications and additional information are available on the internet at: [dnr.wi.gov/topic/Brownfields/Pubs.html](http://dnr.wi.gov/topic/Brownfields/Pubs.html).

## Instructions

1. Complete sections 1, 2, 6 and 7 for all requests. Be sure to provide adequate and complete information.
2. Select the type of assistance requested: Section 3 for technical assistance or post-closure modifications, Section 4 for a written determination or clarification of environmental liabilities; or Section 5 for a specialized agreement.
3. Include the fee payment that is listed in Section 3, 4, or 5, unless you are a "Voluntary Party" enrolled in the Voluntary Party Liability Exemption Program **and** the questions in Section 2 direct otherwise. Information on to whom and where to send the fee is found in Section 8 of this form.
4. Send the completed request, supporting materials and the fee to the appropriate DNR regional office where the Property is located.

See the map on the last page of this form. A paper copy of the signed form and all reports and supporting materials shall be sent with an electronic copy of the form and supporting materials on a compact disk. For electronic document submittal requirements see: <http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf>

The time required for DNR's determination varies depending on the complexity of the site, and the clarity and completeness of the request and supporting documentation.

# Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 12/18)

Page 2 of 5

## Section 1. Contact and Recipient Information

### Requester Information

This is the person requesting technical assistance or a post-closure modification review, that his or her liability be clarified or a specialized agreement and is identified as the requester in Section 7. DNR will address its response letter to this person.

Last Name Nelson	First Denice	MI	Organization/ Business Name Tyco Fire Products LP
Mailing Address 2700 Industrial Parkway South		City Marinette	State WI
		ZIP Code 54143	
Phone # (include area code)	Fax # (include area code)	Email	

The requester listed above: (select all that apply)

- Is currently the owner
  Is considering selling the Property  
 Is renting or leasing the Property
  Is considering acquiring the Property  
 Is a lender with a mortgagee interest in the Property  
 Other. Explain the status of the Property with respect to the applicant:

### Contact Information (to be contacted with questions about this request)

Select if same as requester

Contact Last Name Rutkowski	First Lisa	MI	Organization/ Business Name Arcadis
Mailing Address 126 N Jefferson Street, Suite 400		City Milwaukee	State WI
		ZIP Code 53202	
Phone # (include area code) (414) 276-7742	Fax # (include area code)	Email Lisa.Rutkowski@arcadis.com	

### Environmental Consultant (if applicable)

Contact Last Name Rutkowski	First Lisa	MI	Organization/ Business Name Arcadis
Mailing Address 126 N Jefferson Street, Suite 400		City Milwaukee	State WI
		ZIP Code 53202	
Phone # (include area code) (414) 276-7742	Fax # (include area code)	Email Lisa.Rutkowski@arcadis.com	

## Section 2. Property Information

Property Name Tyco Fire Technology Center - PFCs	FID No. (if known) 438005590
BRRTS No. (if known) 0238580694	Parcel Identification Number
Street Address 2700 Industrial Parkway South	City Marinette
	State WI
	ZIP Code 54143
County Marinette	Municipality where the Property is located <input checked="" type="radio"/> City <input type="radio"/> Town <input type="radio"/> Village of Marinette
	Property is composed of: <input type="radio"/> Single tax parcel <input checked="" type="radio"/> Multiple tax parcels
	Property Size Acres 380

# Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 12/18)

Page 3 of 5

1. Is a response needed by a specific date? (e.g., Property closing date) Note: Most requests are completed within 60 days. Please plan accordingly.

No  Yes

Date requested by: \_\_\_\_\_

Reason: \_\_\_\_\_

2. Is the "Requester" enrolled as a Voluntary Party in the Voluntary Party Liability Exemption (VPLE) program?

No. **Include the fee that is required for your request in Section 3, 4 or 5.**

Yes. **Do not include a separate fee.** This request will be billed separately through the VPLE Program.

**Fill out the information in Section 3, 4 or 5 which corresponds with the type of request:**

**Section 3. Technical Assistance or Post-Closure Modifications;**

**Section 4. Liability Clarification; or Section 5. Specialized Agreement.**

## Section 3. Request for Technical Assistance or Post-Closure Modification

Select the type of technical assistance requested: [Numbers in brackets are for WI DNR Use]

- No Further Action Letter (NFA) (Immediate Actions) - NR 708.09, [183] - **Include a fee of \$350.** Use for a written response to an immediate action after a discharge of a hazardous substance occurs. Generally, these are for a one-time spill event.
- Review of Site Investigation Work Plan - NR 716.09, [135] - **Include a fee of \$700.**
- Review of Site Investigation Report - NR 716.15, [137] - **Include a fee of \$1050.**
- Approval of a Site-Specific Soil Cleanup Standard - NR 720.10 or 12, [67] - **Include a fee of \$1050.**
- Review of a Remedial Action Options Report - NR 722.13, [143] - **Include a fee of \$1050.**
- Review of a Remedial Action Design Report - NR 724.09, [148] - **Include a fee of \$1050.**
- Review of a Remedial Action Documentation Report - NR 724.15, [152] - **Include a fee of \$350**
- Review of a Long-term Monitoring Plan - NR 724.17, [25] - **Include a fee of \$425.**
- Review of an Operation and Maintenance Plan - NR 724.13, [192] - **Include a fee of \$425.**

Other Technical Assistance - s. 292.55, Wis. Stats. [97] (For request to build on an abandoned landfill use Form 4400-226)

- Schedule a Technical Assistance Meeting - **Include a fee of \$700.**
- Hazardous Waste Determination - **Include a fee of \$700.**
- Other Technical Assistance - **Include a fee of \$700.** Explain your request in an attachment.

Post-Closure Modifications - NR 727, [181]

- Post-Closure Modifications: Modification to Property boundaries and/or continuing obligations of a closed site or Property; sites may be on the GIS Registry. This also includes removal of a site or Property from the GIS Registry. **Include a fee of \$1050, and:**
  - Include a fee of \$300 for sites with residual soil contamination; and
  - Include a fee of \$350 for sites with residual groundwater contamination, monitoring wells or for vapor intrusion continuing obligations.

Attach a description of the changes you are proposing, and documentation as to why the changes are needed (if the change to a Property, site or continuing obligation will result in revised maps, maintenance plans or photographs, those documents may be submitted later in the approval process, on a case-by-case basis).

## Skip Sections 4 and 5 if the technical assistance you are requesting is listed above and complete Sections 6 and 7 of this form Section 6. Other Information Submitted

Identify all materials that are included with this request.

**Send both a paper copy of the signed form and all reports and supporting materials, and an electronic copy of the form and all reports, including Environmental Site Assessment Reports, and supporting materials on a compact disk.**

**Include one copy of any document from any state agency files that you want the Department to review as part of this request. The person submitting this request is responsible for contacting other state agencies to obtain appropriate reports or information.**

Phase I Environmental Site Assessment Report - Date: \_\_\_\_\_

Phase II Environmental Site Assessment Report - Date: \_\_\_\_\_

Technical Assistance, Environmental Liability  
Clarification or Post-Closure Modification Request

Form 4400-237 (R 12/18)

Page 4 of 5

Legal Description of Property (required for all liability requests and specialized agreements)

Map of the Property (required for all liability requests and specialized agreements)

Analytical results of the following sampled media: Select all that apply and include date of collection.

Groundwater

Soil

Sediment

Other medium - Describe: Potable Water

Date of Collection: \_\_\_\_\_

A copy of the closure letter and submittal materials

Draft tax cancellation agreement

Draft agreement for assignment of tax foreclosure judgment

Other report(s) or information - Describe: Potable Well Sampling Program Annual Summary Report - FTC

For Property with newly identified discharges of hazardous substances only: Has a notification of a discharge of a hazardous substance been sent to the DNR as required by s. NR 706.05(1)(b), Wis. Adm. Code?

Yes - Date (if known): \_\_\_\_\_

No

Note: The Notification for Hazardous Substance Discharge (non-emergency) form is available at:

[dnr.wi.gov/files/PDF/forms/4400/4400-225.pdf](http://dnr.wi.gov/files/PDF/forms/4400/4400-225.pdf)

**Section 7. Certification by the Person who completed this form**

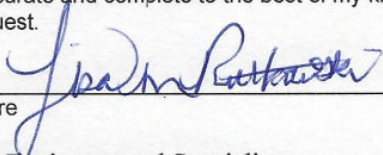
I am the person submitting this request (requester)

I prepared this request for: Denice Nelson

Requester Name

I certify that I am familiar with the information submitted on this request, and that the information on and included with this request is true, accurate and complete to the best of my knowledge. I also certify I have the legal authority and the applicant's permission to make this request.

Signature



Date Signed

8/8/2022

Project Environmental Specialist

Title

(414) 276-7742

Telephone Number (include area code)



# Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 12/18)

Page 5 of 5

## Section 8. DNR Contacts and Addresses for Request Submittals

Send or deliver one paper copy and one electronic copy on a compact disk of the completed request, supporting materials, and fee to the region where the property is located to the address below. Contact a [DNR regional brownfields specialist](#) with any questions about this form or a specific situation involving a contaminated property. For electronic document submittal requirements see: <http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf>.

### DNR NORTHERN REGION

Attn: RR Program Assistant  
 Department of Natural Resources  
 223 E Steinfest Rd Antigo, WI 54409

### DNR NORTHEAST REGION

Attn: RR Program Assistant  
 Department of Natural Resources  
 2984 Shawano Avenue  
 Green Bay WI 54313

### DNR SOUTH CENTRAL REGION

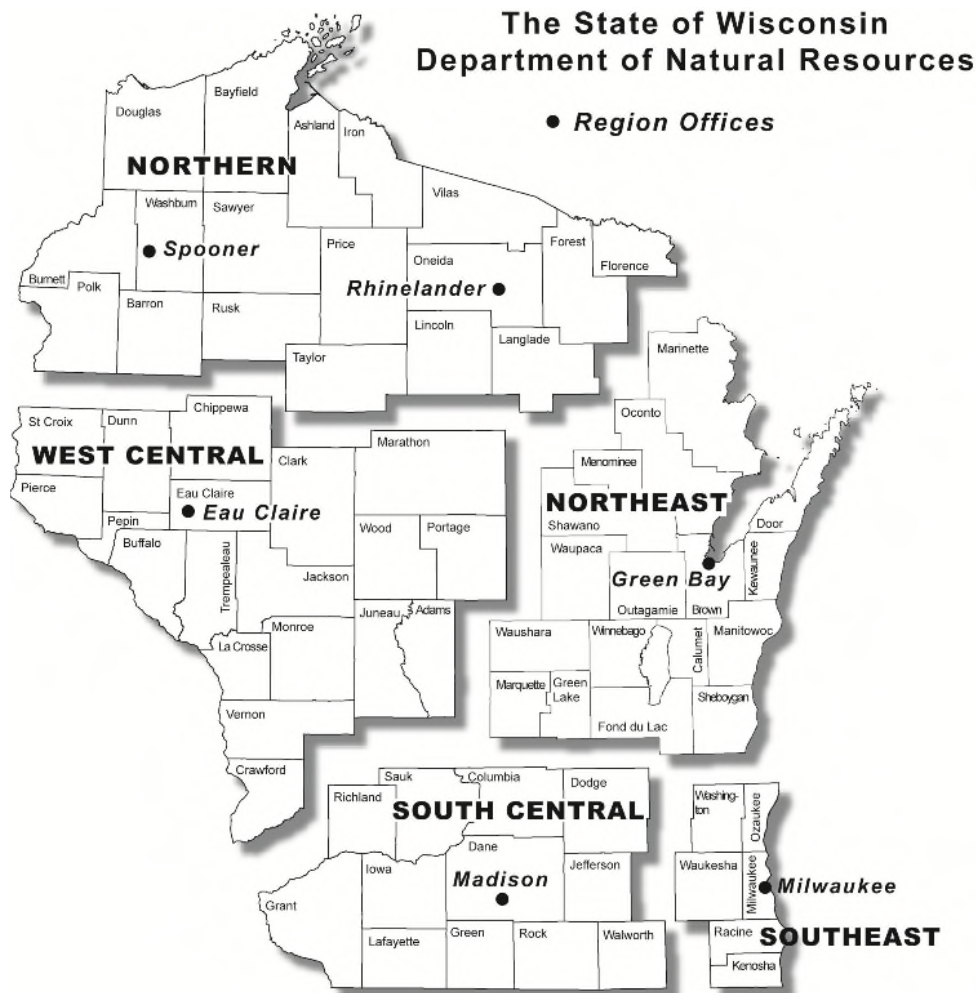
Attn: RR Program Assistant  
 Department of Natural Resources  
 3911 Fish Hatchery Road  
 Fitchburg WI 53711

### DNR SOUTHEAST REGION

Attn: RR Program Assistant  
 Department of Natural Resources  
 2300 North Martin Luther King Drive  
 Milwaukee WI 53212

### DNR WEST CENTRAL REGION

Attn: RR Program Assistant  
 Department of Natural Resources  
 1300 Clairemont Ave.  
 Eau Claire WI 54702



*Note: These are the Remediation and Redevelopment Program's designated regions. Other DNR program regional boundaries may be different.*

DNR Use Only			
Date Received	Date Assigned	BRRTS Activity Code	BRRTS No. (if used)
DNR Reviewer		Comments	
Fee Enclosed? <input type="radio"/> Yes <input type="radio"/> No	Fee Amount \$	Date Additional Information Requested	Date Requested for DNR Response Letter
Date Approved	Final Determination		

Tyco Fire Products LP

# Potable Well Sampling Program Annual Summary Report - FTC Sampling Area

**For the Period April 1, 2021 through March 31, 2022**

**Tyco Fire Technology Center, 2700 Industrial Parkway  
South, Marinette, Wisconsin 54143**

**BRRTS# 02-38-580694**

August 8, 2022

# Potable Well Sampling Program Annual Summary Report - FTC Sampling Area

Tyco Fire Technology Center, 2700 Industrial Parkway South, Marinette, Wisconsin 54143

August 8, 2022

**Prepared by:**

Arcadis U.S., Inc.  
126 North Jefferson Street  
Suite 400  
Milwaukee  
Wisconsin 53202  
Tel 414 276 7742  
Fax 414 276 7603

**Prepared for:**

Tyco Fire Products LP  
2700 Industrial Parkway South  
Marinette  
Wisconsin 54143

**Our Ref:**

30130622



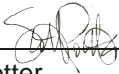
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Lisa M. Rutkowski  
Project Environmental Scientist



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Matthew C. Coleman  
Project Communications Manager



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Scott T. Potter  
Chief Hydrogeologist

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## Contents

Acronyms And Abbreviations .....	iii
Executive Summary.....	ES-1
1 Introduction.....	1
2 Potable Well Sampling Program .....	1
2.1 Quarterly Potable Well Sampling.....	2
2.2 POET Monitoring .....	3
3 Sampling Procedures.....	3
3.1 Methods.....	3
4 Quality Assurance/Quality Control .....	4
5 Potable Well Results .....	5
5.1 Evaluation of Potable Well Data .....	5
6 Conclusions and Recommendations .....	6
7 References .....	7

## Exhibits

Exhibit 1. Number of Potable Wells Sampled Between April 2021 and March 2022.....	2
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## Tables

Table 1. POET System Program Status

Table 2. Potable Well Results

Table 3. List of Compounds

## Figures

Figure 1. Site Location

Figure 2. Potable Well Sampling Area

Figure 3. Potable Well Locations – Sand Point Wells <37 Feet

Figure 4. Potable Well Locations – Drilled Wells >37 Feet

Figure 5. Potable Well Locations – Unknown Well Depths



## Acronyms And Abbreviations

Arcadis	Arcadis U.S., Inc.
BRRTS	Bureau of Remediation and Redevelopment Tracking System
Call Line	Tyco Environmental Assessment Call Line
COC	chain-of-custody
CSM	Conceptual Site Model
FTC	Fire Technology Center
GAC	granular activated carbon
HDPE	high-density polyethylene
ID	identification
MS/MSD	matrix spike/matrix spike duplicate
ND	not detected
NR	Natural Resources
PFAS	per- and poly-fluorinated alkyl substances
PFOA	perfluorooctanoic acid
PFOS	perfluorooctanesulfonic acid
POET	point-of-entry treatment
PTFE	polytetrafluoroethylene
PWSA	potable well sampling area
RL	reporting limit
Site	Tyco Fire Technology Center located at 2700 Industrial Parkway South, Marinette, Wisconsin
TA SAC	Eurofins TestAmerica Sacramento
Tyco	Tyco Fire Products LP
USEPA	United States Environmental Protection Agency
WDNR	Wisconsin Department of Natural Resources

## Executive Summary

On behalf of Tyco Fire Products LP (Tyco) this report summarizes the quarterly monitoring activities conducted and data received from April 1, 2021 through March 31, 2022, for the potable well sampling area (PWSA) adjacent to the Tyco Fire Technology Center in Marinette, Wisconsin (the Site).

During this period, Arcadis performed quarterly sampling of potable wells in the PWSA following the procedures as set forth in the *Revised Long-Term Potable Well Sampling Plan* (Arcadis 2021b):

- April – June 2021 (16 wells)
- July – September 2021 (2 wells)
- October – December 2021 (5 wells)
- January – March 2022 (9 wells).

Beginning in 2017 and continuing to date, Tyco has proactively arranged for bottled water to be made available at no cost to residents with potable wells whose properties were included in the PWSA. Starting in 2018 and continuing to date, Tyco arranged for point of entry treatment (POET) systems to be installed and maintained at no cost to residents with confirmed per- and poly-fluorinated alkyl substances (PFAS) concentrations above the laboratory reporting limits. To date, POET systems have been installed at 47 property locations. Additionally, Tyco is committed to providing a long-term drinking water solution for the PWSA to permanently eliminate the drinking water exposure pathway from the overburden geology.

Tyco will continue to monitor the potable wells and POET systems within the PWSA as presented in the Wisconsin Department of Natural Resources-approved March 16, 2021 Revised Long-Term Potable Well Sampling Plan and the *Response to Comments – Response to 3rd Revised Long-Term Potable Well Sampling Plan* (Arcadis 2021c). An updated *Revised Long-Term Potable Well Sampling Plan* will be submitted by October 1, 2022. Residents within the PWSA will continue to receive bottled water service or free POET system maintenance for properties with a POET system installed while Tyco works with property owners to determine and implement a long-term drinking water solution for affected properties.

It is recommended that groundwater monitoring and associated trend analyses for this area be performed using the Natural Resources (NR)141 compliant monitoring wells that are either installed or currently being installed in the PWSA. As potable wells are not compliant with NR141 requirements for monitoring wells and cannot be used for long term monitoring under current Wisconsin Administrative Codes, Tyco is in the process of installing several additional NR141 monitoring wells to complete a network of monitoring wells that will be used to assess the plume over time (Figures 3, 4, and 5). A recommendation for such a monitoring program will be included in a future FTC Site Investigation Report.

In summary, the results reported here are as expected and in keeping with our model. The results continue to validate the conclusions and analyses reported in the Conceptual Site Model (CSM) for the FTC and demonstrate that, shaped by geology and past testing activities contributing PFAS contamination in the groundwater plume, the plume is mature and defined.

## 1 Introduction

On behalf of Tyco Fire Products LP (Tyco), Arcadis U.S., Inc. (Arcadis) prepared this *Potable Well Sampling Program Annual Summary Report – FTC Sampling Area* (report) for the Tyco Fire Technology Center (FTC) located at 2700 Industrial Parkway South in Marinette, Wisconsin (the Site) (Figure 1). This report describes the potable well sampling program including the monitoring activities conducted and data received from April 1, 2021 through March 31, 2022. The report was prepared as requested by Wisconsin Department of Natural Resources (WDNR) and in compliance with a letter dated June 18, 2021, *Response to 3<sup>rd</sup> Revised Long-Term Potable Well Sampling Plan*. The Site description and history are published in the February 2022 Additional Site Investigation Work Plan (Arcadis).

## 2 Potable Well Sampling Program

Tyco initiated the potable well sampling program in December 2017 in compliance with WDNR Bureau of Remediation and Redevelopment Tracking System (BRRTS) #02-38-580694. The objective of the sampling program has been to determine whether potable wells in the sampling area contain detectable levels of per- and poly-fluorinated alkyl substances (PFAS). The potable well sampling area (PWSA) (Figure 2) is within the Town of Peshtigo and City of Marinette, Wisconsin, and is bounded roughly to the north by University Drive, to the west by County Road B, to the south by Rader Road, and to the east by Green Bay. The PWSA was defined using data collected from desktop studies of local geology and analytical data from field investigations, as well as findings from multiple Site investigation reports (Arcadis 2018a, 2020e), the *Conceptual Site Model* (Arcadis 2020d) and *Southern Area Groundwater Evaluation Report* (Arcadis 2020b). Groundwater flow throughout the study area is controlled by natural processes, moving from higher elevations to lower elevations toward Green Bay and Ditch B, bounded by bedrock to prevent flow to the west. These findings and conditions have led to existing conditions where the plume is mature and contained within our existing PWSA (Arcadis 2020f).

Working in conjunction with WDNR, Tyco assessed available sampling data and expanded the PWSA as data indicated was necessary. Initially, 68 potable wells were included in the PWSA, followed by the addition of 103 potable wells by the winter 2019 sampling event. A total of 173 different potable wells have been sampled through March 31, 2022.

All the residences with potable wells in the PWSA have access to safe drinking water. In conjunction with the sampling program, Tyco proactively arranged for bottled water to be made available at no cost to residents with potable wells whose properties were included in the PWSA. The distribution of bottled water is managed in accordance with the *Comprehensive Alternative Water Management Plan* submitted to WDNR in March 2020 (Arcadis 2020a). In 2018, Tyco started installing whole house point of entry treatment (POET) systems at no cost to residents with confirmed PFAS concentrations above the laboratory reporting limits. To date, POET systems have been installed at 47 property locations. Additionally, Tyco is committed to providing a long-term drinking water solution for the PWSA to permanently eliminate the drinking water exposure pathway from the overburden geology.

Potable wells and POET systems within the PWSA will continue to be monitored as presented in the WDNR-approved *Revised Long-Term Potable Well Sampling Plan* (Arcadis 2021b). Residents within the PWSA will

continue to be offered bottled water service or POET system maintenance for properties with a POET system while Tyco works with property owners to determine and implement a long-term drinking water solution.

## 2.1 Quarterly Potable Well Sampling

The potable well sampling program was initiated in December of 2017. Eligible wells within the PWSA were scheduled to be sampled quarterly provided property owners and/or tenants permitted access. The exception was the spring and summer of 2020 when sampling events were suspended due to the COVID-19 pandemic after executive order by the Governor of Wisconsin enacted social distancing guidelines. Following the suspension of sampling activities, an updated *Revised Potable Well Sampling Plan (Arcadis 2020c)* was submitted and subsequently approved to change the frequency of sampling based on sampling results. The analytical results from potable wells and POET system influent collected since April 1, 2021 show several locations with decreases and increases in concentrations of PFOA and/or perfluorooctanesulfonic acid (PFOS) relative to historical results. This variability in concentrations is primarily due to a minor redistribution of PFAS associated with continued groundwater pumping at each potable well and is not because the plume is expanding. It is therefore recommended that groundwater monitoring and associated trend analyses for this area be performed using the Natural Resources 141 compliant monitoring wells that are either installed or currently being installed in the PWSA. A recommendation for such a monitoring program will be included in a future FTC Site Investigation Report.

On January 8, 2021, Tyco mailed postcards to property owners and tenants within the PWSA eligible for seasonal sampling based on the current *Revised Long-Term Potable Well Sampling Plan (Arcadis 2020c)*. Those postcards requested access to sample their potable well during the winter 2021 event and provided a toll-free phone number (the Tyco Environmental Assessment Call Line [Call Line]) where the resident could speak with a project representative to schedule their sampling appointment. Postcards were sent out each subsequent quarter to eligible property owners requesting access to sample their well. The number of wells sampled during each quarterly event from April 1, 2021 through March 31, 2022 are illustrated in Exhibit 1. Only three known or suspected potable wells within the PWSA have not been sampled through the winter 2022 sampling event due to property abandonment or lack of responsiveness.

**Exhibit 1. Number of Potable Wells Sampled Between April 2021 and March 2022**

	Spring 2021 (April-June)	Summer 2021 (July-September)	Fall 2021 (October-December)	Winter 2022 (January-March)
Number of Potable Wells Sampled	16	2	5	9

Sampling results were provided to property owners and tenants in letters mailed within 10 business days of Arcadis receiving results from the laboratory. Copies of these letters were also provided to WDNR and the data was also included in bi-weekly database submissions.

## 2.2 POET Monitoring

Tyco started installing whole house POET systems in 2018 at no cost to residents with confirmed PFAS concentrations above the laboratory reporting limits. To date, POET systems have been installed at 47 property locations. Potable wells that have POET systems installed are identified on Figures 3, 4 and 5, relative to well type and depth.

Influent and treated water for each well with a POET system were sampled for PFAS based on prior data from that particular system to determine POET system efficiency. Routine maintenance is conducted on each system. Sediment filters are typically replaced every 3 months, ultraviolet lamps and quartz sleeves are replaced once every year, and granular activated carbon tanks are replaced before breakthrough is observed, which varies based on water usage and concentrations of PFAS for each well. Once the effectiveness of a POET system is established through regular sampling for at least 12 months, maintenance reverts to an approved granular activated carbon (GAC) changeout schedule. The POET systems with varying or increasing influent concentrations are sampled quarterly to ensure clean water is being provided and the GAC changeout schedule is adjusted based on sampling results. The sampling and maintenance status of each POET system is outlined in Table 1. POET system sampling or maintenance status is reviewed and changed based on available data.

Beginning in September 2020, in accordance with requests from WDNR, all POET samples are analyzed for 36 PFAS compounds using Modified Method 537. Initially when the potable well sampling program began in 2017, only six PFAS compounds were available for testing using Method 537. Tyco moved to a Modified Method 537 in July 2018 to sample for 14 PFAS compounds. Sampling results are provided to property owners and tenants in letters mailed within 10 business days of Arcadis receiving results from the laboratory. Copies of these letters are also provided to WDNR. The WDNR also receives an electronic copy of the potable well sample results with the routine bi-weekly database submissions of all site related data.

## 3 Sampling Procedures

The detection of PFAS compounds, including at low concentrations, can be influenced by common PFAS-containing materials that may be present at the sampling site. Therefore, the following sampling protocols were strictly followed by sampling personnel.

### 3.1 Methods

Sample collection methods were designed to avoid cross-contamination from PFAS-containing materials, which was of utmost importance given the very low detection limits for PFOA and PFOS analyses that were conducted. As such, materials with any potential to contain PFAS were not used during the sampling, including, for example, polytetrafluoroethylene (PTFE) pipe tape, pipe thread pastes that contain PTFE, PTFE sample tubing, food wrappers, water resistant/proof clothing, and waterproof field books. Additionally, where possible, the sampling team avoided collecting samples from potable water outfalls and taps fitted with Teflon tape or other PFAS-containing materials; however, stainless steel and polyvinyl chloride materials were considered acceptable.

For quality control purposes, field blanks, field duplicate samples, and matrix spike/matrix spike duplicate (MS/MSD) samples were collected for approximately every sample delivery group, every 10 samples, and every 20 samples, respectively. For smaller sample delivery groups, one field blank, one field duplicate, and one

MS/MSD was collected per group. The samples were collected, stored, and handled as described in the *Quality Assurance Project Plan* submitted to the WDNR on June 15, 2022 (Arcadis 2022c).

The following sample identification (ID) nomenclature was used to assign unique identifiers:

- Potable Wells:
  - WS-XXX, where WS = water sample and XXX = the number assigned to the well.
- Potable Wells with POET Systems:
  - WS-XXX, where WS = water sample and XXX = the number assigned to the well.
  - POET-YY-MID, where POET = point of entry treatment system sample, YY = the number assigned to the POET system not equivalent to the well number, and MID = midpoint of POET system sampling location.
  - POET-YY-POST, where POET = point of entry treatment system sample, YY = the number assigned to the POET system not equivalent to the well number, and POST = post-POET system sampling location.

Samples were collected in 250 milliliter high-density polyethylene (HDPE) bottles provided by the laboratory. The bottles were labeled with the sample ID and the date/time collected immediately after sealing the bottles, and then the bottles were placed and sealed in a Ziploc® or similar bag. This information was also recorded on the chain-of-custody (COC) form provided by the laboratory, in a Potable Water Supply Sample Log, and in the sampling team's field notes. A signed copy of the COC form was provided to the laboratory whenever a sample cooler was delivered to the laboratory. A copy of each COC form was kept with the field notes and sample logs.

The COC form was marked for analysis with a standard turnaround time (approximately 3 weeks). Samples were placed in coolers, with enough ice to keep the sample temperature between 0 and 4°C until delivered to the laboratory. Only "wet" ice was used, with no use of "blue ice" or similar cold storage packets. PFAS sample coolers were shipped via FedEx Priority Overnight delivery to:

Sample Receiving  
Eurofins Sacramento  
880 Riverside Parkway  
West Sacramento, California 95605-1500

Samples collected starting September 2020 were analyzed for 36 PFAS compounds using Modified Method 537.

## 4 Quality Assurance/Quality Control

Quality assurance and quality control processes were performed in accordance with the *Quality Assurance Project Plan* (Arcadis 2022c). After receipt of sampling analysis results from the laboratory, Arcadis conducted a preliminary data quality review (Level 2 data validation). The sample results were communicated to property owners and tenants after completion of the preliminary data quality review. After completion of the preliminary data quality review, Arcadis conducted a more comprehensive, Level 4 data validation. The timeframe for completion of Level 4 validation was approximately four weeks after receipt of the complete Level 4 data package from the laboratory; however, the length of time varied based on the amount of time required for the laboratory to send additional quality assurance and quality control information to Arcadis and the number of samples under review. Any changes to the reported sampling results after completion of the Level 4 validation, were provided to the property owners and tenants and to WDNR.



Data were reviewed in accordance with United States Environmental Protection Agency (USEPA) National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-2017-002, January 2017 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999, as appropriate).

Results were qualified as follows in accordance with the National Functional Guidelines:

- D = Dilution required for sample analysis.
- J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ = The result is an estimated quantity. The associated numerical value is expected to have a positive or high bias.
- J- = The result is an estimated quantity. The associated numerical value is expected to have a negative or low bias.
- JN = The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative ID. The associated numerical value is an estimated concentration only.
- R = The results are rejected.
- U = The compound was analyzed for but not detected (ND). The associated value is the compound quantitation limit.
- UB = Compound considered non-detect at the listed value due to associated blank contamination.

## 5 Potable Well Results

This section summarizes the potable well and POET system influent results. The results from the most recent sampling events, April 1, 2021 through March 31, 2022, are included in Table 2.

The analytical results collected since April 1, 2021 from potable wells and POET system influent samples show several locations with current results below their highest historical results and some locations with current results above historical results. In December 2021, at the request of WDNR, Tyco stopped influent sampling of POET systems enrolled in a maintenance program and instead began sampling system effluent to document maintenance program effectiveness. Historical comparisons are not available for all 36 PFAS due to updates to sampling methodologies described in Section 2.2.

### 5.1 Evaluation of Potable Well Data

The results reported here are as expected and continue to validate the conclusions and analyses reported in the CSM for the FTC. These results demonstrate that, shaped by geology and in light of the historic duration of activities contributing to PFAS contamination in the groundwater plume, the plume is mature and defined (Arcadis 2020d). A total of 173 different potable wells within the PWSA were sampled during quarterly sampling events from December 2017 to March 31, 2022. Five of these wells were determined to not be potable wells and sampling was discontinued. One well was reported by the property owner to be abandoned and two additional wells are associated with the former Bay Area Medical Center and are no longer in use; therefore, sampling was

discontinued, resulting in a total of 165 potable wells currently eligible for sampling. As previously stated, every inhabitable structure within the PWSA has access to free, safe drinking water via bottled water service and/or POET system. Where POET systems are in place, only system influent results are evaluated for the purposes of this report. Samples collected from the effluent of POETs are all below Table 3 values.

The analytical results from potable wells and POET system influent samples since April 1, 2021 show several wells with current results below their highest historical results and some wells with current results above historical results. Variability in concentrations is primarily due to a minor redistribution of mass within the plume associated with continued groundwater pumping at each potable well, not because the plume is expanding.

The historical data since December 2017 indicates the majority of wells with detections above the reporting limit (RL) are shallow wells, mostly sand points less than 37 feet deep based on available well construction forms or homeowner-provided information. The site investigations indicate the PFAS detections potentially attributable to Tyco operations are limited to the overburden geology and do not extend beyond bedrock. Low concentrations of FOSA were detected above the RL in wells of varying depth. As noted above, well depth information is not available for all wells sampled. Shallow wells are depicted on Figure 3, deep wells are depicted on Figure 4 and wells of unknown depth are depicted on Figure 5.

As expected, the area of the PWSA nearest the FTC has relatively higher PFAS concentrations compared to wells further away. This area is in the vicinity of County Road B, University Drive, and Green Gable Road. The potable wells in that area have concentrations of PFOA and PFOS combined ranging from 3.9 J to 690 nanograms per liter. All the residences with potable wells have access to safe drinking water via POETs or bottled water.

## 6 Conclusions and Recommendations

The results reported here are as expected and continue to validate the conclusions and analyses reported in the CSM for the FTC (Arcadis 2020d,f). These results demonstrate that, shaped by geology and in light of the historic duration of activities contributing to PFAS contamination in the groundwater plume, the plume is mature and defined (Arcadis 2020d). Tyco is committed to providing a long-term drinking water solution for the PWSA and will continue actively engaging property owners to achieve this goal.

Tyco will continue to provide short-term drinking water solutions such as bottled water service and POET systems in accordance with the *Comprehensive Alternative Water Management Plan* (Arcadis 2020a). A recommendation for a monitoring well network to evaluate long term groundwater characteristics and trend analyses will be included in a future FTC Site Investigation Report. In the interim period, Tyco recommends continuing the potable well sampling program and POET monitoring program as outlined in the WDNR-approved *Revised Long-Term Potable Well Sampling Plan* (Arcadis 2021b) and the *Response to Comments – Response to 3rd Revised Long-Term Potable Well Sampling Plan* (Arcadis 2021c). An updated version of the Revised Long-Term Potable Well Sampling Plan will be submitted to the WDNR by October 1, 2022. Tyco will continue to perform the ongoing sampling work and will continue to keep the community informed of these activities.

## 7 References

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- Arcadis. 2020b. Southern Area Groundwater Evaluation Report. BRRTS No. 02-38-580694. March 20.
- Arcadis. 2020c. Revised Long-Term Potable Well Sampling Plan. Tyco Fire Technology Center, 2700 Industrial Parkway South, Marinette, Wisconsin 54143. BRRTS# 02-38-580694. April 1.
- Arcadis. 2020d. Conceptual Site Model. Tyco Fire Technology Center, Marinette, Wisconsin. BRRTS# 02-38-580694. May.
- Arcadis. 2020e. Interim Site Investigation Report. Tyco Fire Technology Center, Marinette, Wisconsin. BRRTS# 02-38-580694. May.
- Arcadis. 2020f. Groundwater Flow and Solute Transport Model Report. Tyco Fire Technology Center, Marinette, Wisconsin. BRRTS #02-38-580694. November.
- Arcadis. 2021a. Quality Assurance Project Plan. March 16.
- Arcadis. 2021b. Revised Long-Term Potable Well Sampling Plan. Tyco Fire Technology Center, 2700 Industrial Parkway South, Marinette, Wisconsin 54143. BRRTS# 02-38-580694. March 16.
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- Arcadis. 2021d. Private Drinking Water Well Sampling Program Annual Summary Report - FTC Sampling Area. 2700 Industrial Parkway, Marinette, Wisconsin 54143. BRRTS# 02-38-580694. August 6.
- Arcadis. 2021e. Revised Long-Term Potable Well Sampling Plan. Tyco Fire Technology Center, 2700 Industrial Parkway South, Marinette, Wisconsin 54143. BRRTS# 02-38-580694. October 1.
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- USEPA. 2017. National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-2017-002. January.
- WDNR. 2021a. Response to 3<sup>rd</sup> Revised Long-Term Potable Well Sampling Plan. JCI/Tyco FTC PFAS, 2700 Industrial Parkway South, Marinette, WI. BRRTS #02-38-580694. June 18.
- WDNR. 2021b. Response to 2020 Potable Well Sampling Program Summary Report. JCI/Tyco FTC PFAS, 2700 Industrial Parkway South, Marinette, WI. BRRTS #02-38-580694. December 16.

POTABLE WELL SAMPLING PROGRAM ANNUAL SUMMARY REPORT - FTC SAMPLING AREA

WDNR. 2021c. Response to Private Drinking Water Well Sampling Program Annual Summary Report, April 1, 2020 to March 31, 2021. JCI/Tyco FTC PFAS, 2700 Industrial Parkway South, Marinette, WI. BRRTS #02-38-580694. December 16.

WDNR. 2021d. Response to 4<sup>th</sup> Revised Long-Term Potable Well Sampling Plan. JCI/Tyco FTC PFAS, 2700 Industrial Parkway South, Marinette, WI. BRRTS #02-38-580694. December 16.

# Tables

**Table 1**  
**POET System Program Status**  
**Potable Well Sampling Program Annual Summary Report - FTC Sampling Area**  
**Marinette, Wisconsin**

Well Sample ID	POET ID	Sampling/Maintenance Status
WS-007A	POET-43	Maintenance
WS-008	POET-7	Maintenance
WS-009	POET-26	Maintenance
WS-013	POET-10	Maintenance
WS-017	POET-40	Maintenance
WS-018	POET-29	Maintenance
WS-019	POET-5	Maintenance
WS-023	POET-14	Maintenance
WS-024	POET-11	Maintenance
WS-025	POET-28	Maintenance
WS-030	POET-31	Maintenance
WS-032	POET-25	Maintenance
WS-036	POET-3	Maintenance
WS-037	POET-32	Maintenance
WS-038	POET-19	Maintenance
WS-041	POET-46	Quarterly Sampling
WS-042	POET-45	Quarterly Sampling
WS-049	POET-35	Maintenance
WS-052	POET-2	Maintenance
WS-053	POET-21	Maintenance
WS-054	POET-30	Maintenance
WS-057	POET-34	Maintenance
WS-058	POET-1	Maintenance
WS-060	POET-47	Quarterly Sampling
WS-061B	POET-27	Maintenance
WS-062	POET-44	Quarterly Sampling
WS-067	POET-39	Maintenance
WS-068	POET-12	Quarterly Sampling
WS-090	POET-4	Quarterly Sampling
WS-092	POET-22	Maintenance
WS-096	POET-6	Quarterly Sampling
WS-097	POET-13	Maintenance
WS-099	POET-15	Maintenance
WS-100	POET-24	Maintenance
WS-106 / WS-106R	POET-37	Quarterly Sampling
WS-109	POET-17	Maintenance
WS-111	POET-18	Maintenance
WS-115	POET-20	Maintenance
WS-121A	POET-16	Maintenance
WS-121B	POET-36	Maintenance
WS-126	POET-23	Maintenance
WS-129	POET-38	Maintenance
WS-133	POET-33	Maintenance
WS-146A / WS-146AR	POET-8	Quarterly Sampling
WS-146B	POET-9	Uninstalled
WS-152	POET-42	Maintenance
WS-163	POET-41	Maintenance

**Notes:**

Sampling/Maintenance status subject to change based on available data

ID = Identification

POET = Point of Entry Treatment



**Table 2**  
**Potable Well Results**  
**Potable Well Sampling Program Annual Summary Report - FTC Sampling Area**  
**Marinette, Wisconsin**

			Location	WS-005	WS-006	WS-007A				WS-008	WS-013
			Sample ID	WS-005 (011922)	WS-006 (051221)	WS-007A (040721)	WS-007A (081821)	WS-007A (111121)	WS-007A (011822)	POET-7-POST (121521)	WS-013 (111921)
			Sample Date	1/19/2022	5/12/2021	4/7/2021	8/18/2021	11/11/2021	1/18/2022	12/15/2021	11/19/2021
			Sample Event	Winter 2022	Spring 2021	POET	POET	POET	POET	POET Effluent	POET
			Sample Type	N	N	N	N	N	N	N	N
			General Well Depth	Shallow	Deep	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
			Detailed Well Depth	30	521	23	23	23	23	23	15
			Source	-	+,-	-	-	-	-	-	-
Chemical Name	June 2019 WDHS (Not Adopted by WDNR Board) <sup>(1)</sup>	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) <sup>(2)</sup>	Unit								
PFBA	--	10,000	ng/L	2.8 J	<2.3 U	59	51	44	34	<2.3 U	<11 U
PFPeA	--		ng/L	2.8	<0.46 U	250	230	220	150	<0.47 U	<2.3 U
PFHxA	--	150,000	ng/L	1.6	<0.55 U	170	130	160	110	<0.56 U	3.2 J
PFHpA	--		ng/L	<0.20 U	<0.24 U	97	87	89	72	<0.24 U	<1.1 U
PFOA	20		ng/L	<0.67 U	<0.80 U	500 D	370 D	450 D	330	<0.82 U	5.3 J
PFNA	--	30	ng/L	<0.21 U	<0.25 U	52	65	8.7	26	<0.26 U	<1.2 U
PFDA	--	300	ng/L	<0.25 U	<0.29 U	6.1	3.8	<0.30 U	<0.28 U	<0.30 U	<1.4 U
PFUnA	--	3,000	ng/L	<0.87 U	<1.0 U	<1.0 U	<0.98 U	<1.1 U	<0.99 U	<1.1 U	<5.1 U
PFDaA	--	500	ng/L	<0.44 U	<0.52 U	<0.50 U	<0.49 U	<0.54 U	<0.49 U	<0.53 U	<2.5 U
PFTriA	--		ng/L	<1.0 U	<1.2 U	<1.2 U	<1.2 U	<1.3 U	<1.2 U	<1.3 U	<6.0 U
PFTeA	--	10,000	ng/L	<0.58 U	<0.69 U	<0.67 U	<0.65 U	<0.72 U	<0.66 U	<0.70 U	<3.4 U
PFHxDA	--		ng/L	<0.71 U	<0.84 U	<0.81 U	<0.79 U	<0.87 U	<0.80 U	<0.86 U	<4.1 U
PFODA	--	400,000	ng/L	<0.75 U	<0.89 U	<0.86 U	<0.83 U	<0.92 U	<0.84 U	<0.90 U	<4.3 U
PFBS	--	450,000	ng/L	<0.16 U	<0.19 U	8.0	5.4	4.9	3.7	<0.19 U	3.9 J
PFPeS	--		ng/L	<0.24 U	<0.28 U	11	7.4	6.0	7.2	<0.29 U	<1.4 U
PFHxS	--	40	ng/L	<0.45 U	<0.54 U	62	60	65	48	<0.55 U	<2.6 U
PFHpS	--		ng/L	<0.15 U	<0.18 U	2.6	2.5	0.82 J	2.1	<0.18 U	<0.87 U
PFOS	20		ng/L	<0.43 U	<0.51 U	160	120	14	16	<0.52 U	3.3 J
PFNS	--		ng/L	<0.29 U	<0.35 U	<0.34 U	<0.33 U	<0.36 U	<0.33 U	<0.36 U	<1.7 U
PFDS	--		ng/L	<0.25 U	<0.30 U	<0.29 U	<0.28 U	<0.31 U	<0.29 U	<0.31 U	<1.5 U
PFDoS	--		ng/L	<0.77 U	<0.92 U	<0.89 U	<0.86 U	<0.95 U	<0.87 U	<0.93 U	<4.5 U
4:2 FTS	--		ng/L	<0.19 U	<0.23 U	12	9.7	13	5.3	<0.23 U	<1.1 U
6:2 FTS	--		ng/L	<2.0 U	<2.4 U	320	230	240	220	<2.4 U	<11 U
8:2 FTS	--		ng/L	<0.37 U	<0.43 U	89 J+	74	5.0	8.1	<0.44 U	<2.1 U
10:2 FTS	--		ng/L	<0.53 U	<0.63 U	<0.61 U	<0.59 U	<0.66 U	<0.60 U	<0.64 U	<3.1 U
FOSA	--	20	ng/L	<0.78 U	4.4	<0.90 U	<0.87 U	<0.96 U	<0.88 U	<0.94 U	<4.5 U
NMeFOSA	--		ng/L	<0.34 U	<0.41 U	<0.39 U	<0.38 U	<0.42 U	<0.39 U	<0.41 U	<2.0 U
NEtFOSA	--	20	ng/L	<0.69 U	<0.82 U	<0.80 U	<0.77 U	<0.85 U	<0.78 U	<0.84 U	<4.0 U
NMeFOSAA	--		ng/L	<0.95 U	<1.1 U	<1.1 U	<1.1 U	<1.2 U	<1.1 U	<1.2 U	<5.5 U
NEtFOSAA	--	20	ng/L	<1.0 U	<1.2 U	<1.2 U	<1.2 U	<1.3 U	<1.2 U	<1.3 U	<6.0 U
NMeFOSE	--		ng/L	<1.1 U	<1.3 U	<1.3 U	<1.2 U	<1.4 U	<1.3 U	<1.3 U	<6.4 U
NEtFOSE	--	20	ng/L	<0.67 U	<0.80 U	<0.78 U	<0.75 U	<0.83 U	<0.76 U	<0.82 U	<3.9 U
HFPO-DA (GenX)	--	300	ng/L	<1.2 U	<1.4 U	<1.4 U	<1.3 U	<1.5 U	<1.3 U	<1.4 U	<6.9 U
DONA	--	3,000	ng/L	<0.32 U	<0.38 U	<0.37 U	<0.35 U	<0.39 U	<0.36 U	<0.38 U	<1.8 U
9Cl-PF3ONS	--		ng/L	<0.19 U	<0.23 U	<0.22 U	<0.21 U	<0.24 U	<0.22 U	<0.23 U	<1.1 U
11Cl-PF3OUdS	--		ng/L	<0.25 U	<0.30 U	<0.29 U	<0.28 U	<0.31 U	<0.29 U	<0.31 U	<1.5 U

Notes on Page 18.

**Table 2**  
**Potable Well Results**  
**Potable Well Sampling Program Annual Summary Report - FTC Sampling Area**  
**Marinette, Wisconsin**

			Location	WS-013 (continued)	WS-014		WS-019		WS-024	WS-028
			Sample ID	WS-013 (030322)	DUP-454 (021622)	WS-014 (021622)	WS-019 (052621)	POET-5-POST (122021)	POET-11-POST (011122)	DUP-461 (031622)
			Sample Date	3/3/2022	2/16/2022	2/16/2022	5/26/2021	12/20/2021	1/11/2022	3/16/2022
			Sample Event	POET	Winter 2022	Winter 2022	POET	POET Effluent	POET Effluent	Winter 2022
			Sample Type	N	FD	N	N	N	N	FD
			General Well Depth	Shallow	Deep	Deep	Shallow	Shallow	Shallow	Deep
			Detailed Well Depth	15	264	264	20	20	<20	454
			Source	-	+,-	+,-	-	-	-	+,-
Chemical Name	June 2019 WDHS (Not Adopted by WDNR Board) <sup>(1)</sup>	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) <sup>(2)</sup>	Unit							
PFBA	--	10,000	ng/L	3.5 J	<2.1 U	<2.2 U	37	4.3 J	<2.2 U	<2.2 U
PFPeA	--		ng/L	1.4 J	<0.44 U	<0.44 U	110 J+	<0.44 U	<0.46 U	<0.45 U
PFHxA	--	150,000	ng/L	1.9	<0.52 U	<0.53 U	79	<0.52 U	<0.54 U	<0.53 U
PFHpA	--		ng/L	0.46 J	<0.22 U	<0.23 U	54 J+	<0.23 U	<0.23 U	<0.23 U
PFOA	20		ng/L	2.1	<0.76 U	<0.77 U	150 J+	<0.77 U	<0.80 U	<0.77 U
PFNA	--	30	ng/L	<0.26 U	<0.24 U	<0.24 U	15	<0.24 U	<0.25 U	<0.25 U
PFDA	--	300	ng/L	<0.30 U	<0.28 U	<0.28 U	3.0	<0.28 U	<0.29 U	<0.28 U
PFUnA	--	3,000	ng/L	<1.1 U	<0.98 U	<1.0 U	<1.0 U	<0.99 U	<1.0 U	<1.0 U
PFDaA	--	500	ng/L	<0.53 U	0.62 J	<0.50 U	<0.51 U	<0.50 U	<0.51 U	<0.50 U
PFTriA	--		ng/L	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U
PFTeA	--	10,000	ng/L	<0.70 U	0.71 J	<0.66 U	<0.67 U	<0.66 U	<0.68 U	<0.67 U
PFHxDA	--		ng/L	<0.86 U	<0.79 U	<0.81 U	<0.82 U	<0.80 U	<0.83 U	<0.81 U
PFODA	--	400,000	ng/L	<0.90 U	<0.84 U	<0.85 U	<0.87 U	<0.85 U	<0.88 U	<0.86 U
PFBS	--	450,000	ng/L	1.8 J	<0.18 U	<0.18 U	3.3	<0.18 U	<0.19 U	<0.18 U
PFPeS	--		ng/L	<0.29 U	<0.27 U	<0.27 U	1.6 J	<0.27 U	<0.28 U	<0.27 U
PFHxS	--	40	ng/L	0.63 J	<0.51 U	<0.52 U	19 J+	<0.51 U	<0.53 U	<0.52 U
PFHpS	--		ng/L	<0.18 U	<0.17 U	<0.17 U	<0.18 U	<0.17 U	<0.18 U	<0.17 U
PFOS	20		ng/L	2.6	<0.48 U	<0.49 U	20	<0.49 U	<0.51 U	<0.49 U
PFNS	--		ng/L	<0.36 U	<0.33 U	<0.34 U	<0.34 U	<0.33 U	<0.35 U	<0.34 U
PFDS	--		ng/L	<0.31 U	<0.28 U	<0.29 U	<0.29 U	<0.29 U	<0.30 U	<0.29 U
PFDoS	--		ng/L	<0.93 U	<0.86 U	<0.88 U	<0.89 U	<0.87 U	<0.91 U	<0.88 U
4:2 FTS	--		ng/L	<0.23 U	<0.21 U	<0.22 U	<0.22 U	<0.22 U	<0.22 U	<0.22 U
6:2 FTS	--		ng/L	<2.4 U	<2.2 U	<2.3 U	30 J+	<2.3 U	<2.3 U	<2.3 U
8:2 FTS	--		ng/L	<0.44 U	<0.41 U	<0.42 U	2.4	<0.41 U	<0.43 U	<0.42 U
10:2 FTS	--		ng/L	<0.64 U	<0.60 U	<0.61 U	<0.62 U	<0.60 U	<0.63 U	<0.61 U
FOSA	--	20	ng/L	<0.94 U	1.2 J	<0.89 U	<0.90 U	1.1 J	<0.92 U	2.3
NMeFOSA	--		ng/L	<0.41 U	<0.38 U	<0.39 U	<0.40 U	<0.39 U	<0.40 U	<0.39 U
NEtFOSA	--	20	ng/L	<0.84 U	<0.77 U	<0.79 U	<0.80 U	<0.78 U	<0.81 U	<0.79 U
NMeFOSAA	--		ng/L	<1.2 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U
NEtFOSAA	--	20	ng/L	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U
NMeFOSE	--		ng/L	<1.3 U	<1.2 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U
NEtFOSE	--	20	ng/L	<0.82 U	<0.76 U	<0.77 U	<0.78 U	<0.77 U	<0.80 U	<0.77 U
HFPO-DA (GenX)	--	300	ng/L	<1.4 U	<1.3 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U
DONA	--	3,000	ng/L	<0.38 U	<0.36 U	<0.36 U	<0.37 UJ-	<0.36 U	<0.37 U	<0.36 U
9CI-PF3ONS	--		ng/L	<0.23 U	0.44 J	<0.22 U	<0.22 U	<0.22 U	<0.22 U	<0.22 U
11CI-PF3OUdS	--		ng/L	<0.31 U	0.75 J	<0.29 U	<0.29 U	<0.29 U	<0.30 U	<0.29 U

Notes on Page 18.

**Table 2**  
**Potable Well Results**  
**Potable Well Sampling Program Annual Summary Report - FTC Sampling Area**  
**Marinette, Wisconsin**

			Location	WS-028 (continued)	WS-030	WS-036			WS-037	
			Sample ID	WS-028 (031622)	POET-31-POST (121421)	DUP-456 (022222)	WS-036 (022222)	DUP-457 (022222)	POET-3-POST (022222)	POET-32-POST (032922)
			Sample Date	3/16/2022	12/14/2021	2/22/2022	2/22/2022	2/22/2022	2/22/2022	3/29/2022
			Sample Event	Winter 2022	POET Effluent	2022-02 POET Eff	Winter 2022	Winter 2022	POET Effluent	POET Effluent
			Sample Type	N	N	FD	N	FD	N	N
			General Well Depth	Deep	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
			Detailed Well Depth	454	28	<30	<30	<30	<30	23
			Source	+, -	+, -	-	-	-	-	-
Chemical Name	June 2019 WDHS (Not Adopted by WDNR Board) <sup>(1)</sup>	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) <sup>(2)</sup>	Unit							
PFBA	--	10,000	ng/L	<2.3 U	<2.2 U	<2.0 U	14	14	<2.0 U	<2.2 U
PFPeA	--		ng/L	<0.46 U	<0.46 U	<0.41 U	23	23	<0.41 U	<0.44 U
PFHxA	--	150,000	ng/L	<0.55 U	<0.54 U	<0.49 U	18	18	<0.49 U	<0.53 U
PFHpA	--		ng/L	<0.24 U	<0.23 U	<0.21 U	12	12	<0.21 U	<0.23 U
PFOA	20		ng/L	<0.80 U	<0.79 U	<0.71 U	30	28	<0.72 U	<0.77 U
PFNA	--	30	ng/L	<0.26 U	<0.25 U	<0.23 U	2.7	2.9	<0.23 U	<0.24 U
PFDA	--	300	ng/L	<0.29 U	<0.29 U	<0.26 U	<0.26 U	<0.30 U	<0.26 U	<0.28 U
PFUnA	--	3,000	ng/L	<1.0 U	<1.0 U	<0.92 U	<0.92 U	<1.1 U	<0.93 U	<1.0 U
PFDoA	--	500	ng/L	<0.52 U	<0.51 U	<0.46 U	<0.46 U	<0.54 U	<0.46 U	<0.50 U
PFTriA	--		ng/L	<1.2 U	<1.2 U	<1.1 U	<1.1 U	<1.3 U	<1.1 U	<1.2 U
PFTeA	--	10,000	ng/L	<0.69 U	<0.68 U	<0.61 U	<0.61 U	<0.71 U	<0.62 U	<0.66 U
PFHxDA	--		ng/L	<0.84 U	<0.83 U	<0.74 U	<0.74 U	<0.87 U	<0.75 U	<0.81 U
PFODA	--	400,000	ng/L	<0.89 U	<0.88 U	<0.79 U	<0.79 U	<0.92 U	<0.79 UJ-	<0.85 U
PFBS	--	450,000	ng/L	<0.19 U	<0.19 U	<0.17 U	2.6	2.5	<0.17 U	<0.18 U
PFPeS	--		ng/L	<0.28 U	<0.28 U	<0.25 U	0.63 J	0.67 J	<0.25 U	<0.27 U
PFHxS	--	40	ng/L	<0.54 U	<0.53 U	<0.48 U	4.6	4.4	<0.48 U	<0.52 U
PFHpS	--		ng/L	<0.18 U	<0.18 U	<0.16 U	0.20 J	<0.19 U	<0.16 U	<0.17 U
PFOS	20		ng/L	<0.51 U	<0.51 U	<0.45 U	10	11	<0.46 U	<0.49 U
PFNS	--		ng/L	<0.35 U	<0.35 U	<0.31 U	<0.31 U	<0.36 U	<0.31 U	<0.34 U
PFDS	--		ng/L	<0.30 U	<0.30 U	<0.27 U	<0.27 U	<0.31 U	<0.27 U	<0.29 U
PFDoS	--		ng/L	<0.92 U	<0.91 U	<0.81 U	<0.81 U	<0.95 U	<0.82 U	<0.88 U
4:2 FTS	--		ng/L	<0.23 U	<0.22 U	<0.20 U	0.49 J	0.50 J	<0.20 U	<0.22 U
6:2 FTS	--		ng/L	<2.4 U	<2.3 U	<2.1 U	17	16	<2.1 U	<2.3 U
8:2 FTS	--		ng/L	<0.44 U	<0.43 U	<0.39 U	8.4	8.3	<0.39 U	<0.42 U
10:2 FTS	--		ng/L	<0.63 U	<0.63 U	<0.56 U	<0.56 U	<0.65 U	<0.56 U	<0.61 U
FOSA	--	20	ng/L	2.4	<0.92 U	<0.82 U	<0.82 U	<0.96 U	<0.83 U	<0.89 U
NMeFOSA	--		ng/L	<0.41 U	<0.40 U	<0.36 U	<0.36 U	<0.42 U	<0.36 U	<0.39 U
NEtFOSA	--	20	ng/L	<0.82 U	<0.81 U	<0.73 U	<0.73 U	<0.85 U	<0.73 U	<0.79 U
NMeFOSAA	--		ng/L	<1.1 U	<1.1 U	<1.0 U	<1.0 U	<1.2 U	<1.0 U	<1.1 U
NEtFOSAA	--	20	ng/L	<1.2 U	<1.2 U	<1.1 U	<1.1 U	<1.3 U	<1.1 U	<1.2 U
NMeFOSE	--		ng/L	<1.3 U	<1.3 U	<1.2 U	<1.2 U	<1.4 U	<1.2 U	<1.3 U
NEtFOSE	--	20	ng/L	<0.80 U	<0.79 U	<0.71 U	<0.71 U	<0.83 U	<0.72 U	<0.77 U
HFPO-DA (GenX)	--	300	ng/L	<1.4 U	<1.4 U	<1.3 U	<1.3 U	<1.5 U	<1.3 U	<1.4 U
DONA	--	3,000	ng/L	<0.38 U	<0.37 U	<0.33 U	<0.33 U	<0.39 U	<0.34 U	<0.36 U
9CI-PF3ONS	--		ng/L	<0.23 U	<0.22 U	<0.20 U	<0.20 U	<0.23 U	<0.20 U	<0.22 U
11CI-PF3OUdS	--		ng/L	<0.30 U	<0.30 U	<0.27 U	<0.27 U	<0.31 U	<0.27 U	<0.29 U

Notes on Page 18.

**Table 2**  
**Potable Well Results**  
**Potable Well Sampling Program Annual Summary Report - FTC Sampling Area**  
**Marinette, Wisconsin**

			Location	WS-038	WS-041			WS-042			WS-049
			Sample ID	POET-19-POST (020822)	WS-041 (101221)	WS-041 (121421)	WS-041 (032922)	WS-042 (070121)	WS-042 (110421)	WS-042 (011222)	DUP-449 (011822)
			Sample Date	2/8/2022	10/12/2021	12/14/2021	3/29/2022	7/1/2021	11/4/2021	1/12/2022	1/18/2022
			Sample Event	POET Effluent	Fall 2021	Fall 2021	Winter 2022	Spring 2021	Fall 2021	Winter 2022	POET Effluent
			Sample Type	N	N	N	N	N	N	N	FD
			General Well Depth	Shallow	N/A	N/A	N/A	Deep	Deep	Deep	Shallow
			Detailed Well Depth	28	N/A	N/A	N/A	110	110	110	24
			Source	+, -	N/A	N/A	N/A	+	+	+	+
Chemical Name	June 2019 WDHS (Not Adopted by WDNR Board) <sup>(1)</sup>	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) <sup>(2)</sup>	Unit								
PFBA	--	10,000	ng/L	<2.2 U	<2.2 U	<2.3 U	<2.3 U	<2.1 U	<2.3 U	<2.3 U	<2.2 U
PFPeA	--		ng/L	<0.44 U	<0.46 U	<0.47 U	<0.46 U	<0.43 U	<0.46 U	<0.46 U	<0.44 U
PFHxA	--	150,000	ng/L	<0.52 U	<0.54 U	<0.55 U	<0.55 U	<0.50 U	<0.55 U	<0.55 U	<0.53 U
PFHpA	--		ng/L	<0.22 U	<0.23 U	<0.24 U	<0.24 U	<0.22 U	<0.24 U	<0.24 U	<0.23 U
PFOA	20		ng/L	<0.76 U	<0.79 U	<0.81 U	<0.80 U	<0.74 U	<0.80 U	<0.80 U	<0.77 U
PFNA	--	30	ng/L	<0.24 U	<0.25 U	<0.26 U	<0.25 U	<0.23 U	<0.25 U	<0.25 U	<0.24 U
PFDA	--	300	ng/L	<0.28 U	<0.29 U	<0.30 U	<0.29 U	<0.27 U	<0.29 U	<0.29 U	<0.28 U
PFUnA	--	3,000	ng/L	<0.99 U	<1.0 U	<1.0 U	<1.0 U	<0.96 U	<1.0 U	<1.0 U	<1.0 U
PFDoA	--	500	ng/L	<0.49 U	<0.51 U	<0.52 U	<0.52 U	<0.48 U	<0.52 U	<0.52 U	<0.50 U
PFTriA	--		ng/L	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.1 U	<1.2 U	<1.2 U	<1.2 U
PFTeA	--	10,000	ng/L	<0.66 U	<0.68 U	<0.70 U	<0.69 U	<0.63 U	<0.69 U	<0.69 U	<0.66 U
PFHxDA	--		ng/L	<0.80 U	<0.83 U	<0.85 U	<0.84 U	<0.77 U	<0.84 U	<0.84 U	<0.81 U
PFODA	--	400,000	ng/L	<0.85 U	<0.87 U	<0.90 U	<0.89 U	<0.82 U	<0.89 U	<0.88 U	<0.85 U
PFBS	--	450,000	ng/L	<0.18 U	<0.19 U	<0.19 U	<0.19 U	<0.17 U	<0.19 U	<0.19 U	<0.18 U
PFPeS	--		ng/L	<0.27 U	<0.28 U	<0.29 U	<0.28 U	<0.26 U	<0.28 U	<0.28 U	<0.27 U
PFHxS	--	40	ng/L	<0.51 U	<0.53 U	<0.54 U	<0.54 U	<0.50 U	<0.54 U	<0.54 U	<0.52 U
PFHpS	--		ng/L	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.17 U
PFOS	20		ng/L	<0.49 U	<0.50 U	<0.52 U	<0.51 U	<0.47 U	<0.51 U	<0.51 U	<0.49 U
PFNS	--		ng/L	<0.33 U	<0.34 U	<0.35 U	<0.35 U	<0.32 U	<0.35 U	<0.35 U	<0.34 U
PFDS	--		ng/L	<0.29 U	<0.30 U	<0.31 U	<0.30 U	<0.28 U	<0.30 U	<0.30 U	<0.29 U
PFDoS	--		ng/L	<0.87 U	<0.90 U	<0.93 U	<0.91 U	<0.84 U	<0.92 U	<0.91 U	<0.88 U
4:2 FTS	--		ng/L	<0.22 U	<0.22 U	<0.23 U	<0.23 U	<0.21 U	<0.23 U	<0.23 U	<0.22 U
6:2 FTS	--		ng/L	<2.2 U	<2.3 U	<2.4 U	<2.4 U	<2.2 U	<2.4 U	<2.4 U	<2.3 U
8:2 FTS	--		ng/L	<0.41 U	<0.43 U	<0.44 U	<0.43 U	<0.40 U	<0.43 U	<0.43 U	<0.42 U
10:2 FTS	--		ng/L	<0.60 U	<0.62 U	<0.64 U	<0.63 U	<0.58 U	<0.63 U	<0.63 U	<0.61 U
FOSA	--	20	ng/L	1.3 J	<0.91 U	<0.94 U	1.2 J	2.8	1.1 J	<0.92 U	<0.89 U
NMeFOSA	--		ng/L	<0.39 U	<0.40 U	<0.41 U	<0.41 U	<0.37 U	<0.41 U	<0.40 U	<0.39 U
NEtFOSA	--	20	ng/L	<0.78 U	<0.81 U	<0.83 U	<0.82 U	<0.76 U	<0.82 U	<0.82 U	<0.79 U
NMeFOSAA	--		ng/L	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1.0 U	<1.1 U	<1.1 U	<1.1 U
NEtFOSAA	--	20	ng/L	1.7 J	<1.2 U	<1.2 U	<1.2 U	<1.1 U	<1.2 U	<1.2 U	<1.2 U
NMeFOSE	--		ng/L	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.2 U	<1.3 U	<1.3 U	<1.3 U
NEtFOSE	--	20	ng/L	5.1	<0.79 U	<0.81 U	<0.80 U	<0.74 U	<0.80 U	<0.80 U	<0.77 U
HFPO-DA (GenX)	--	300	ng/L	<1.3 U	<1.4 U	<1.4 U	<1.4 U	<1.3 U	<1.4 U	<1.4 U	<1.4 U
DONA	--	3,000	ng/L	<0.36 U	<0.37 U	<0.38 U	<0.38 U	<0.35 U	<0.38 U	<0.38 U	<0.36 U
9CI-PF3ONS	--		ng/L	<0.22 U	<0.22 U	<0.23 U	<0.23 U	<0.21 U	<0.23 U	<0.23 U	<0.22 U
11CI-PF3OUdS	--		ng/L	<0.29 U	<0.30 U	<0.31 U	<0.30 U	<0.28 U	<0.30 U	<0.30 U	<0.29 U

Notes on Page 18.

**Table 2**  
**Potable Well Results**  
**Potable Well Sampling Program Annual Summary Report - FTC Sampling Area**  
**Marinette, Wisconsin**

			Location	WS-049 (continued)		WS-051	WS-052		WS-053	WS-054
			Sample ID	POET-35-POST (011822)	WS-049 (011822)	WS-051 (051221)	DUP-447 (011022)	POET-2-POST (011022)	POET-21-POST (120221)	POET-30-POST (121521)
			Sample Date	1/18/2022	1/18/2022	5/12/2021	1/10/2022	1/10/2022	12/2/2021	12/15/2021
			Sample Event	POET Effluent	Winter 2022	Spring 2021	POET Effluent	POET Effluent	POET Effluent	POET Effluent
			Sample Type	N	N	N	FD	N	N	N
			General Well Depth	Shallow	Shallow	Deep	Shallow	Shallow	Shallow	Deep
			Detailed Well Depth	24	24	107	22	22	30	95
			Source	+	+	+,-	-	-	+,-	+
Chemical Name	June 2019 WDHS (Not Adopted by WDNR Board) <sup>(1)</sup>	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) <sup>(2)</sup>	Unit							
PFBA	--	10,000	ng/L	<2.2 U	12	<2.2 U	<2.2 U	<2.3 U	<2.1 U	<2.3 U
PFPeA	--		ng/L	<0.45 U	13	<0.45 U	<0.45 U	<0.46 U	<0.44 U	<0.47 U
PFHxA	--	150,000	ng/L	<0.53 U	11	<0.53 U	<0.54 U	<0.55 U	<0.52 U	<0.56 U
PFHpA	--		ng/L	<0.23 U	4.8	<0.23 U	<0.23 U	<0.24 U	<0.22 U	<0.24 U
PFOA	20		ng/L	<0.78 U	10	0.91 J	<0.79 U	<0.81 U	<0.76 U	<0.82 U
PFNA	--	30	ng/L	<0.25 U	<0.24 U	<0.25 U	<0.25 U	<0.26 U	<0.24 U	<0.26 U
PFDA	--	300	ng/L	<0.28 U	<0.28 U	<0.29 U	<0.29 U	<0.29 U	<0.28 U	<0.30 U
PFUnA	--	3,000	ng/L	<1.0 U	<0.98 U	<1.0 U	<1.0 U	<1.0 U	<0.98 U	<1.1 U
PFDoA	--	500	ng/L	<0.50 U	<0.49 U	<0.51 U	<0.51 U	<0.52 U	<0.49 U	<0.53 U
PFTriA	--		ng/L	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.3 U
PFTeA	--	10,000	ng/L	<0.67 U	<0.65 U	<0.67 U	<0.68 U	<0.69 U	<0.65 U	<0.70 U
PFHxDA	--		ng/L	<0.81 U	<0.79 U	<0.82 U	<0.82 U	<0.84 U	<0.80 U	<0.86 U
PFODA	--	400,000	ng/L	<0.86 U	<0.84 U	<0.86 U	<0.87 U	<0.89 U	<0.84 UJ-	<0.90 U
PFBS	--	450,000	ng/L	<0.18 U	2.3	<0.18 U	<0.19 U	<0.19 U	<0.18 U	<0.19 U
PFPeS	--		ng/L	<0.27 U	0.79 J	<0.28 U	<0.28 U	<0.28 U	<0.27 U	<0.29 U
PFHxS	--	40	ng/L	<0.52 U	5.1	<0.52 U	<0.53 U	<0.54 U	<0.51 U	<0.55 U
PFHpS	--		ng/L	<0.17 U	0.66 J	<0.17 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U
PFOS	20		ng/L	<0.49 U	3.4 JN	<0.50 U	<0.50 U	<0.51 U	<0.48 U	<0.52 U
PFNS	--		ng/L	<0.34 U	<0.33 U	<0.34 U	<0.34 U	<0.35 U	<0.33 U	<0.36 U
PFDS	--		ng/L	<0.29 U	<0.28 U	<0.29 U	<0.30 U	<0.30 U	<0.29 U	<0.31 U
PFDoS	--		ng/L	<0.89 U	<0.86 U	<0.89 U	<0.90 U	<0.92 U	<0.87 U	<0.93 U
4:2 FTS	--		ng/L	<0.22 U	<0.21 U	<0.22 U	<0.22 U	<0.23 U	<0.21 U	<0.23 U
6:2 FTS	--		ng/L	<2.3 U	<2.2 U	<2.3 U	<2.3 U	<2.4 U	<2.2 U	<2.4 U
8:2 FTS	--		ng/L	<0.42 U	<0.41 U	<0.42 U	<0.43 U	<0.44 U	<0.41 U	<0.44 U
10:2 FTS	--		ng/L	<0.61 U	<0.60 U	<0.62 U	<0.62 U	<0.63 U	<0.60 U	<0.64 U
FOSA	--	20	ng/L	<0.90 U	<0.87 U	14 J+	<0.91 U	<0.93 U	<0.88 U	<0.94 U
NMeFOSA	--		ng/L	<0.39 U	<0.38 U	<0.40 U	<0.40 U	<0.41 U	<0.38 U	<0.41 U
NEtFOSA	--	20	ng/L	<0.80 U	<0.77 U	<0.80 U	<0.81 U	<0.82 U	<0.78 U	<0.84 U
NMeFOSAA	--		ng/L	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1.2 U
NEtFOSAA	--	20	ng/L	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.3 U
NMeFOSE	--		ng/L	<1.3 U	<1.2 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U
NEtFOSE	--	20	ng/L	<0.78 U	<0.76 U	<0.78 U	<0.79 U	<0.81 U	<0.76 U	<0.82 U
HFPO-DA (GenX)	--	300	ng/L	<1.4 U	<1.3 U	<1.4 U	<1.4 U	<1.4 U	<1.3 U	<1.4 U
DONA	--	3,000	ng/L	<0.37 U	<0.36 U	<0.37 U	<0.37 U	<0.38 U	<0.36 U	<0.38 U
9CI-PF3ONS	--		ng/L	<0.22 U	0.30 J	<0.22 U	<0.22 U	<0.23 U	<0.21 U	<0.23 U
11CI-PF3OUdS	--		ng/L	<0.29 U	<0.28 U	<0.29 U	<0.30 U	<0.30 U	<0.29 U	<0.31 U

Notes on Page 18.

**Table 2**  
**Potable Well Results**  
**Potable Well Sampling Program Annual Summary Report - FTC Sampling Area**  
**Marinette, Wisconsin**

			Location	WS-056		WS-058		WS-060		WS-061B
			Sample ID	DUP-422 (06292021)	WS-056 (062921)	DUP-462 (032222)	POET-1-POST (032222)	WS-060 (102821)	WS-060 (011822)	POET-27-POST (032222)
			Sample Date	6/29/2021	6/29/2021	3/22/2022	3/22/2022	10/28/2021	1/18/2022	3/22/2022
			Sample Event	Spring 2021	Spring 2021	POET Effluent	POET Effluent	Fall 2021	Winter 2022	POET Effluent
			Sample Type	FD	N	FD	N	N	N	N
			General Well Depth	Deep	Deep	Shallow	Shallow	Shallow	Shallow	Shallow
			Detailed Well Depth	495	495	N/A	N/A	N/A	N/A	N/A
			Source	+, -	+, -	N/A	N/A	-	-	N/A
Chemical Name	June 2019 WDHS (Not Adopted by WDNR Board) <sup>(1)</sup>	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) <sup>(2)</sup>	Unit							
PFBA	--	10,000	ng/L	<2.2 U	<2.2 U	<2.2 U	<2.3 U	13	12	<2.2 U
PFPeA	--		ng/L	<0.44 U	<0.46 U	<0.44 U	<0.46 U	25	22	<0.45 U
PFHxA	--	150,000	ng/L	<0.52 U	<0.54 U	<0.53 U	<0.54 U	21	18	<0.53 U
PFHpA	--		ng/L	<0.23 U	<0.23 U	<0.23 U	<0.23 U	11	11	<0.23 U
PFOA	20		ng/L	<0.77 U	<0.79 U	<0.77 U	<0.80 U	15	17	<0.78 U
PFNA	--	30	ng/L	<0.24 U	<0.25 U	<0.24 U	<0.25 U	0.66 J	<0.23 U	<0.25 U
PFDA	--	300	ng/L	0.32 J	0.29 J	<0.28 U	<0.29 U	<0.28 U	<0.27 U	<0.28 U
PFUnA	--	3,000	ng/L	<0.99 U	<1.0 U	<1.0 U	<1.0 U	<0.98 U	<0.95 U	<1.0 U
PFDaA	--	500	ng/L	<0.50 U	<0.51 U	<0.50 U	<0.52 U	<0.49 U	<0.47 U	<0.50 U
PFTriA	--		ng/L	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.1 U	<1.2 U
PFTeA	--	10,000	ng/L	<0.66 U	<0.68 U	<0.66 U	<0.68 U	<0.65 U	<0.63 U	<0.67 U
PFHxDA	--		ng/L	<0.80 U	<0.83 U	<0.81 U	<0.83 U	<0.79 U	<0.77 U	<0.82 U
PFODA	--	400,000	ng/L	<0.85 U	<0.88 U	<0.85 U	<0.88 U	<0.84 U	<0.81 U	<0.86 UJ
PFBS	--	450,000	ng/L	<0.18 U	<0.19 U	<0.18 U	<0.19 U	2.2	1.6 J	<0.18 U
PFPeS	--		ng/L	<0.27 U	<0.28 U	<0.27 U	<0.28 U	<0.27 U	<0.26 U	<0.28 U
PFHxS	--	40	ng/L	<0.51 U	<0.53 U	<0.52 U	<0.53 U	1.6 J	1.9	<0.52 U
PFHpS	--		ng/L	<0.17 U	<0.18 U	<0.17 U	<0.18 U	<0.17 U	<0.16 U	<0.17 U
PFOS	20		ng/L	<0.49 U	<0.50 U	<0.49 U	<0.51 U	5.1	0.48 J	<0.50 U
PFNS	--		ng/L	<0.33 U	<0.35 U	<0.34 U	<0.35 U	<0.33 U	<0.32 U	<0.34 U
PFDS	--		ng/L	<0.29 U	<0.30 U	<0.29 U	<0.30 U	<0.29 U	<0.28 U	<0.29 U
PFDoS	--		ng/L	<0.87 U	<0.90 U	<0.88 U	<0.91 U	<0.87 U	<0.84 U	<0.89 U
4:2 FTS	--		ng/L	<0.22 U	<0.22 U	<0.22 U	<0.23 U	<0.21 U	<0.21 U	<0.22 U
6:2 FTS	--		ng/L	<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.2 U	<2.2 U	<2.3 U
8:2 FTS	--		ng/L	<0.41 U	<0.43 U	<0.42 U	<0.43 U	<0.41 U	<0.40 U	<0.42 U
10:2 FTS	--		ng/L	<0.60 U	<0.63 U	<0.61 U	<0.63 U	<0.60 U	<0.58 U	<0.61 U
FOSA	--	20	ng/L	<0.88 U	<0.91 U	0.99 J	1.1 J	<0.87 U	<0.85 U	1.1 J
NMeFOSA	--		ng/L	<0.39 U	<0.40 U	<0.39 U	<0.40 U	<0.38 U	<0.37 U	<0.39 U
NEtFOSA	--	20	ng/L	<0.78 U	<0.81 U	<0.79 U	<0.82 U	<0.78 U	<0.75 U	<0.80 U
NMeFOSAA	--		ng/L	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1.0 U	<1.1 U
NEtFOSAA	--	20	ng/L	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.1 U	<1.2 U
NMeFOSE	--		ng/L	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.2 U	<1.2 U	<1.3 U
NEtFOSE	--	20	ng/L	<0.77 U	<0.79 U	<0.77 U	<0.80 U	<0.76 U	<0.73 U	<0.78 U
HFPO-DA (GenX)	--	300	ng/L	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.3 U	<1.3 U	<1.4 U
DONA	--	3,000	ng/L	<0.36 U	<0.37 U	<0.36 U	<0.38 U	<0.36 U	<0.35 U	<0.37 U
9CI-PF3ONS	--		ng/L	<0.22 U	<0.22 U	<0.22 U	<0.23 U	<0.21 U	<0.21 U	0.66 J
11CI-PF3OUdS	--		ng/L	<0.29 U	<0.30 U	<0.29 U	<0.30 U	<0.29 U	<0.28 U	<0.29 U

Notes on Page 18.



**Table 2**  
**Potable Well Results**  
**Potable Well Sampling Program Annual Summary Report - FTC Sampling Area**  
**Marinette, Wisconsin**

			Location	WS-062				WS-066	WS-067	WS-068	
			Sample ID	WS-062 (063021)	WS-062 (090921)	WS-062 (101221)	WS-062 (020822)	WS-066 (022222)	WS-067 (111121)	WS-068 (061521)	WS-068 (091521)
			Sample Date	6/30/2021	9/9/2021	10/12/2021	2/8/2022	2/22/2022	11/11/2021	6/15/2021	9/15/2021
			Sample Event	Spring 2021	Summer 2021	Fall 2021	Winter 2022	Winter 2022	Fall 2021	Spring 2021	Summer 2021
			Sample Type	N	N	N	N	N	N	N	N
			General Well Depth	Shallow	Shallow	Shallow	Shallow	Deep	N/A	Shallow	Shallow
			Detailed Well Depth	15	15	15	15	77	N/A	30	30
			Source	-	-	-	-	+,-	N/A	-	-
Chemical Name	June 2019 WDHS (Not Adopted by WDNR Board) <sup>(1)</sup>	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) <sup>(2)</sup>	Unit								
PFBA	--	10,000	ng/L	20	25	19	17	<2.2 U	<2.3 U	21	34
PFPeA	--		ng/L	31	30	25	26	0.58 J	<0.47 U	110	160
PFHxA	--	150,000	ng/L	21	21	19	22	0.69 J	<0.55 U	73	98
PFHpA	--		ng/L	11	13	11	11	0.51 J	<0.24 U	55	74
PFOA	20		ng/L	22	19	19	31	5.6	<0.81 U	310	380 D
PFNA	--	30	ng/L	<0.24 U	0.25 J	<0.26 U	0.33 J	<0.24 U	<0.26 U	10	11
PFDA	--	300	ng/L	<0.28 U	0.35 JN	<0.29 U	<0.27 U	<0.28 U	<0.30 U	<0.27 U	<0.31 U
PFUnA	--	3,000	ng/L	<0.99 U	<0.92 U	<1.0 U	<0.94 U	<0.99 U	<1.0 U	<0.95 U	<1.1 U
PFDaA	--	500	ng/L	<0.50 U	<0.46 U	<0.52 U	<0.47 U	<0.50 U	<0.52 U	<0.47 U	<0.54 U
PFTriA	--		ng/L	<1.2 U	<1.1 U	<1.2 U	<1.1 U	<1.2 U	<1.2 U	<1.1 U	<1.3 U
PFTeA	--	10,000	ng/L	<0.66 U	<0.61 U	<0.69 U	<0.63 U	<0.66 U	<0.70 U	<0.63 U	<0.72 U
PFHxDA	--		ng/L	<0.80 U	<0.75 U	<0.85 U	<0.76 U	<0.80 U	<0.85 U	<0.77 U	<0.88 U
PFODA	--	400,000	ng/L	<0.85 U	<0.79 U	<0.89 U	<0.81 U	<0.85 U	<0.90 U	<0.81 U	<0.93 U
PFBS	--	450,000	ng/L	2.8	4.3	3.0	2.4	<0.18 U	<0.19 U	1.9	3.1
PFPeS	--		ng/L	0.61 JN	0.45 J	<0.29 U	0.38 J	<0.27 U	<0.29 U	1.8	2.9
PFHxS	--	40	ng/L	1.4 J	0.91 J	1.1 J	1.2 J	<0.51 U	<0.54 U	34	48
PFHpS	--		ng/L	<0.17 U	<0.16 U	<0.18 U	<0.16 U	<0.17 U	<0.18 U	0.17 J	0.32 J
PFOS	20		ng/L	2.5	1.8 JN	<0.51 U	<0.46 U	<0.49 U	<0.51 U	3.3	3.6
PFNS	--		ng/L	<0.33 U	<0.31 U	<0.35 U	<0.32 U	<0.33 U	<0.35 U	<0.32 U	<0.36 U
PFDS	--		ng/L	<0.29 U	<0.27 U	<0.30 U	<0.27 U	<0.29 U	<0.30 U	<0.28 U	<0.32 U
PFDoS	--		ng/L	<0.87 U	<0.82 U	<0.92 U	<0.83 U	<0.87 U	<0.92 U	<0.84 U	<0.96 U
4:2 FTS	--		ng/L	<0.22 U	<0.20 U	<0.23 U	<0.21 U	<0.22 U	<0.23 U	1.0 J-	1.9 J
6:2 FTS	--		ng/L	<2.3 U	<2.1 U	<2.4 U	<2.1 U	<2.3 U	<2.4 U	36	58
8:2 FTS	--		ng/L	<0.41 U	<0.39 U	<0.44 U	<0.39 U	<0.41 U	<0.44 U	<0.40 U	<0.45 U
10:2 FTS	--		ng/L	<0.60 U	<0.56 U	<0.64 U	<0.57 U	<0.60 U	<0.64 U	<0.58 U	<0.66 U
FOSA	--	20	ng/L	<0.88 U	1.4 J	6.0	1.8	<0.88 U	<0.93 U	<0.84 U	<0.97 U
NMeFOSA	--		ng/L	<0.39 U	<0.36 U	<0.41 U	<0.37 U	<0.39 U	<0.41 U	<0.37 U	<0.42 U
NEtFOSA	--	20	ng/L	<0.78 U	<0.73 U	<0.83 U	<0.75 U	<0.78 U	<0.83 U	<0.75 U	<0.86 U
NMeFOSAA	--		ng/L	<1.1 U	<1.0 U	<1.1 U	<1.0 U	<1.1 U	<1.1 U	<1.0 U	<1.2 U
NEtFOSAA	--	20	ng/L	<1.2 U	<1.1 U	<1.2 U	<1.1 U	<1.2 U	<1.2 U	<1.1 U	<1.3 U
NMeFOSE	--		ng/L	<1.3 U	<1.2 U	<1.3 U	<1.2 U	<1.3 U	<1.3 U	<1.2 U	<1.4 U
NEtFOSE	--	20	ng/L	<0.77 U	<0.71 U	<0.81 U	<0.73 U	<0.77 U	<0.81 U	<0.73 U	<0.84 U
HFPO-DA (GenX)	--	300	ng/L	<1.4 U	<1.3 U	<1.4 U	<1.3 U	<1.4 U	<1.4 U	<1.3 U	<1.5 U
DONA	--	3,000	ng/L	<0.36 UJ-	<0.34 U	<0.38 U	<0.34 U	<0.36 U	<0.38 U	<0.34 U	<0.39 U
9CI-PF3ONS	--		ng/L	<0.22 U	<0.20 U	<0.23 U	<0.21 U	<0.22 U	<0.23 U	<0.21 U	<0.24 U
11CI-PF3OUdS	--		ng/L	<0.29 U	<0.27 U	<0.30 U	<0.27 U	<0.29 U	<0.30 U	<0.28 U	<0.32 U

Notes on Page 18.

**Table 2**  
**Potable Well Results**  
**Potable Well Sampling Program Annual Summary Report - FTC Sampling Area**  
**Marinette, Wisconsin**

			Location	WS-068 (continued)		WS-078		WS-079	WS-084		WS-086
			Sample ID	WS-068 (121421)	WS-068 (030822)	DUP-435 (101221)	WS-078 (101221)	WS-079 (101221)	DUP-424 (071421)	WS-084 (071421)	DUP-452 (020822)
			Sample Date	12/14/2021	3/8/2022	10/12/2021	10/12/2021	10/12/2021	7/14/2021	7/14/2021	2/8/2022
			Sample Event	Fall 2021	Winter 2022	Fall 2021	Fall 2021	Fall 2021	Summer 2021	Summer 2021	Winter 2022
			Sample Type	N	N	FD	N	N	FD	N	FD
			General Well Depth	Shallow	Shallow	Deep	Deep	Deep	Deep	Deep	N/A
			Detailed Well Depth	30	30	129	129	97	122	122	N/A
			Source	-	-	+,-	+,-	+,-	+,-	+,-	N/A
Chemical Name	June 2019 WDHS (Not Adopted by WDNR Board) <sup>(1)</sup>	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) <sup>(2)</sup>	Unit								
PFBA	--	10,000	ng/L	7.9	8.4	<2.3 U	<2.2 U	<2.2 U	<2.2 U	<2.1 U	<2.2 U
PFPeA	--		ng/L	30	40	<0.47 U	<0.45 U	<0.44 U	<0.45 U	<0.43 U	<0.44 U
PFHxA	--	150,000	ng/L	22	24	<0.56 U	<0.54 U	<0.53 U	<0.54 U	<0.51 U	<0.52 U
PFHpA	--		ng/L	12	17	<0.24 U	<0.23 U	<0.23 U	<0.23 U	<0.22 U	<0.22 U
PFOA	20		ng/L	50	60	<0.82 U	<0.79 U	<0.77 U	<0.79 U	<0.74 U	<0.76 U
PFNA	--	30	ng/L	1.0 J	1.4 J	<0.26 U	<0.25 U	<0.24 U	<0.25 U	<0.24 U	<0.24 U
PFDA	--	300	ng/L	<0.30 U	<0.30 U	<0.30 U	<0.29 U	<0.28 U	<0.29 U	<0.27 U	<0.28 U
PFUnA	--	3,000	ng/L	<1.1 U	<1.1 U	<1.1 U	<1.0 U	<1.0 U	<1.0 U	<0.96 U	<0.99 U
PFDoA	--	500	ng/L	<0.54 U	<0.53 U	<0.53 U	<0.51 U	<0.50 U	<0.51 U	<0.48 U	<0.49 U
PFTriA	--		ng/L	<1.3 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.1 U	<1.2 U
PFTeA	--	10,000	ng/L	<0.72 U	<0.70 U	<0.70 U	<0.68 U	<0.66 U	<0.67 U	<0.64 U	<0.66 U
PFHxDA	--		ng/L	<0.87 U	<0.86 U	<0.85 U	<0.82 U	<0.81 U	<0.82 U	<0.78 U	<0.80 U
PFODA	--	400,000	ng/L	<0.92 U	<0.90 U	<0.90 U	<0.87 U	<0.85 U	<0.87 U	<0.82 U	<0.84 U
PFBS	--	450,000	ng/L	0.47 J	0.67 J	<0.19 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U
PFPeS	--		ng/L	0.60 J	0.59 J	<0.29 U	<0.28 U	<0.27 U	<0.28 U	<0.26 U	<0.27 U
PFHxS	--	40	ng/L	7.3	8.4	<0.55 U	<0.53 U	<0.52 U	<0.53 U	<0.50 U	<0.51 U
PFHpS	--		ng/L	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.17 U	<0.17 U
PFOS	20		ng/L	<0.53 U	<0.52 U	<0.52 U	<0.50 U	<0.49 U	<0.50 U	<0.47 U	<0.48 U
PFNS	--		ng/L	<0.36 U	<0.36 U	<0.35 U	<0.34 U	<0.34 U	<0.34 U	<0.32 U	<0.33 U
PFDS	--		ng/L	<0.31 U	<0.31 U	<0.31 U	<0.30 U	<0.29 U	<0.30 U	<0.28 U	<0.29 U
PFDoS	--		ng/L	<0.95 UJ-	<0.93 U	<0.93 U	<0.90 U	<0.88 U	<0.90 U	<0.85 U	<0.87 U
4:2 FTS	--		ng/L	<0.24 U	0.50 J	<0.23 U	<0.22 U	<0.22 U	<0.22 U	<0.21 U	<0.22 U
6:2 FTS	--		ng/L	7.7	13	<2.4 U	<2.3 U	<2.3 U	<2.3 U	<2.2 U	<2.2 U
8:2 FTS	--		ng/L	<0.45 U	<0.44 U	<0.44 U	<0.43 U	<0.42 U	<0.42 U	<0.40 U	<0.41 U
10:2 FTS	--		ng/L	<0.66 U	<0.64 U	<0.64 U	<0.62 U	<0.61 U	<0.62 U	<0.59 U	<0.60 U
FOSA	--	20	ng/L	<0.96 U	<0.94 U	<0.94 U	<0.91 U	1.3 J	<0.91 U	<0.86 U	2.4
NMeFOSA	--		ng/L	<0.42 U	<0.41 U	<0.41 U	<0.40 U	<0.39 U	<0.40 U	<0.38 U	<0.39 U
NEtFOSA	--	20	ng/L	<0.85 U	<0.84 U	<0.83 U	<0.81 U	<0.79 U	<0.80 U	<0.76 U	<0.78 U
NMeFOSAA	--		ng/L	<1.2 U	<1.2 U	<1.2 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U
NEtFOSAA	--	20	ng/L	<1.3 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.1 U	1.3 J
NMeFOSE	--		ng/L	<1.4 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.2 U	<1.3 U
NEtFOSE	--	20	ng/L	<0.83 U	<0.82 U	<0.82 U	<0.79 U	<0.77 U	<0.79 U	<0.74 U	0.88 J
HFPO-DA (GenX)	--	300	ng/L	<1.5 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.3 U	<1.3 U
DONA	--	3,000	ng/L	<0.39 U	<0.38 U	<0.38 U	<0.37 U	<0.36 U	<0.37 U	<0.35 U	<0.36 U
9CI-PF3ONS	--		ng/L	<0.24 U	<0.23 U	<0.23 U	<0.22 U	<0.22 U	<0.22 U	<0.21 U	<0.22 U
11CI-PF3OUdS	--		ng/L	<0.31 U	<0.31 U	<0.31 U	<0.30 U	<0.29 U	<0.30 U	<0.28 U	<0.29 U

Notes on Page 18.

**Table 2**  
**Potable Well Results**  
**Potable Well Sampling Program Annual Summary Report - FTC Sampling Area**  
**Marinette, Wisconsin**

			Location	WS-086 (continued)	WS-087	WS-089		WS-090			
			Sample ID	WS-086 (020822)	WS-087 (101221)	DUP-448 (011122)	WS-089 (011122)	WS-090 (040121)	WS-090 (042921)	WS-090 (060121)	WS-090 (081821)
			Sample Date	2/8/2022	10/12/2021	1/11/2022	1/11/2022	4/1/2021	4/29/2021	6/1/2021	8/18/2021
			Sample Event	Winter 2022	Fall 2021	Winter 2022	Winter 2022	Spring 2021	Spring 2021	Spring 2021	Summer 2021
			Sample Type	N	N	FD	N	N	N	N	N
			General Well Depth	N/A	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
			Detailed Well Depth	N/A	15-20	64	64	30	30	30	30
			Source	N/A	-	+,-	+,-	+,-	+,-	+,-	+,-
Chemical Name	June 2019 WDHS (Not Adopted by WDNR Board) <sup>(1)</sup>	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) <sup>(2)</sup>	Unit								
PFBA	--	10,000	ng/L	<2.2 U	3.0 J	<2.2 U	<2.3 U	5.6	3.6 J	<2.3 U	<2.2 U
PFPeA	--		ng/L	<0.44 U	1.7 J	<0.44 U	<0.47 U	20	11	2.3	1.5 J
PFHxA	--	150,000	ng/L	<0.52 U	1.4 J	<0.53 U	<0.56 U	15	8.9	2.2	1.1 J
PFHpA	--		ng/L	<0.23 U	0.69 J	<0.23 U	<0.24 U	10	6.1	1.3 J	0.60 J
PFOA	20		ng/L	<0.77 U	2.1	<0.77 U	<0.82 U	72	48	14	2.2
PFNA	--	30	ng/L	<0.24 U	<0.25 U	<0.24 U	<0.26 U	3.3	2.0	0.71 J	<0.24 U
PFDA	--	300	ng/L	<0.28 U	<0.28 U	<0.28 U	<0.30 U	<0.28 U	<0.29 U	<0.29 U	<0.28 U
PFUnA	--	3,000	ng/L	<0.99 U	<1.0 U	<1.0 U	<1.1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
PFDaA	--	500	ng/L	<0.50 U	<0.50 U	<0.50 U	<0.53 U	<0.50 U	<0.51 U	<0.52 U	<0.50 U
PFTriA	--		ng/L	<1.2 U	<1.2 U	<1.2 U	<1.3 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U
PFTeA	--	10,000	ng/L	<0.66 U	<0.67 U	<0.66 U	<0.70 U	<0.67 U	<0.68 U	<0.69 U	<0.66 U
PFHxDA	--		ng/L	<0.80 U	<0.82 U	<0.81 U	<0.86 U	<0.82 U	<0.83 U	<0.84 U	<0.81 U
PFODA	--	400,000	ng/L	<0.85 U	<0.86 U	<0.85 U	<0.90 U	<0.86 UJ-	<0.88 UJ-	<0.88 UJ-	<0.85 U
PFBS	--	450,000	ng/L	<0.18 U	<0.18 U	<0.18 U	<0.19 U	0.44 J	0.31 J	<0.19 U	<0.18 U
PFPeS	--		ng/L	<0.27 U	<0.27 U	<0.27 U	<0.29 U	0.36 J	<0.28 U	<0.28 U	<0.27 U
PFHxS	--	40	ng/L	<0.51 U	<0.52 U	<0.52 U	<0.55 U	6.8	4.5	1.6 J	<0.52 U
PFHpS	--		ng/L	<0.17 U	<0.17 U	<0.17 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.17 U
PFOS	20		ng/L	<0.49 U	<0.49 U	<0.49 U	<0.52 U	1.4 J	1.1 J	0.65 J	<0.49 U
PFNS	--		ng/L	<0.33 U	<0.34 U	<0.34 U	<0.36 U	<0.34 U	<0.34 U	<0.35 U	<0.33 U
PFDS	--		ng/L	<0.29 U	<0.29 U	<0.29 U	<0.31 U	<0.29 U	<0.30 U	<0.30 U	<0.29 U
PFDoS	--		ng/L	<0.87 U	<0.89 U	<0.88 U	<0.93 U	<0.89 U	<0.90 U	<0.91 U	<0.88 U
4:2 FTS	--		ng/L	<0.22 U	<0.22 U	<0.22 U	<0.23 U	<0.22 U	<0.22 U	<0.23 U	<0.22 U
6:2 FTS	--		ng/L	<2.3 U	<2.3 U	<2.3 U	<2.4 U	10	4.6 J	<2.3 U	<2.3 U
8:2 FTS	--		ng/L	<0.41 U	<0.42 U	<0.42 U	<0.44 U	<0.42 U	<0.43 U	<0.43 U	<0.42 U
10:2 FTS	--		ng/L	<0.60 U	<0.61 U	<0.61 U	<0.64 U	<0.62 U	<0.62 U	<0.63 U	<0.61 U
FOSA	--	20	ng/L	4.3	<0.90 U	<0.89 U	<0.94 U	<0.90 U	<0.91 U	0.94 J	<0.89 U
NMeFOSA	--		ng/L	<0.39 U	<0.39 U	<0.39 U	<0.41 U	<0.39 U	<0.40 U	<0.40 U	<0.39 U
NEtFOSA	--	20	ng/L	<0.78 U	<0.80 U	<0.79 U	<0.84 U	<0.80 U	<0.81 U	<0.82 U	<0.79 U
NMeFOSAA	--		ng/L	<1.1 U	<1.1 U	<1.1 U	<1.2 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U
NEtFOSAA	--	20	ng/L	<1.2 U	<1.2 U	<1.2 U	<1.3 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U
NMeFOSE	--		ng/L	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U
NEtFOSE	--	20	ng/L	<0.77 U	<0.78 U	<0.77 U	<0.82 U	<0.78 U	<0.79 U	<0.80 U	<0.77 U
HFPO-DA (GenX)	--	300	ng/L	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U
DONA	--	3,000	ng/L	<0.36 U	<0.37 U	<0.36 U	<0.38 U	<0.37 U	<0.37 U	<0.38 U	<0.36 U
9Cl-PF3ONS	--		ng/L	<0.22 U	<0.22 U	<0.22 U	<0.23 U	<0.22 U	<0.22 U	<0.23 U	<0.22 U
11Cl-PF3OUdS	--		ng/L	<0.29 U	<0.29 U	<0.29 U	<0.31 U	<0.29 U	<0.30 U	<0.30 U	<0.29 U

Notes on Page 18.

**Table 2**  
**Potable Well Results**  
**Potable Well Sampling Program Annual Summary Report - FTC Sampling Area**  
**Marinette, Wisconsin**

			Location	WS-090 (continued)			WS-092		WS-096	WS-098	
			Sample ID	WS-090 (120221)	WS-090 (011222)	WS-090 (030822)	WS-092 (041521)	WS-092 (080421)	WS-096 (012722)	DUP-409 (041321)	WS-098 (041321)
			Sample Date	12/2/2021	1/12/2022	3/8/2022	4/15/2021	8/4/2021	1/27/2022	4/13/2021	4/13/2021
			Sample Event	Fall 2021	Winter 2022	Winter 2022	Spring 2021	Summer 2021	Winter 2022	Spring 2021	Spring 2021
			Sample Type	N	N	N	N	N	N	FD	N
			General Well Depth	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Deep	Deep
			Detailed Well Depth	30	30	30	18	18	27	488	488
			Source	+, -	+, -	+, -	-	-	-	+	+
Chemical Name	June 2019 WDHS (Not Adopted by WDNR Board) <sup>(1)</sup>	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) <sup>(2)</sup>	Unit								
PFBA	--	10,000	ng/L	6.8	5.3	6.9	6.5	10	17	<2.2 U	<2.3 U
PFPeA	--		ng/L	15	11	17	4.3	7.7	41	<0.44 U	<0.46 U
PFHxA	--	150,000	ng/L	13	8.0	11	4.9	8.2	32	<0.52 U	<0.55 U
PFHpA	--		ng/L	9.1	5.7	8.8	2.0	4.2	22	<0.23 U	<0.24 U
PFOA	20		ng/L	26	16	22	4.3	8.5	89	<0.77 U	<0.80 U
PFNA	--	30	ng/L	1.7	1.5 J	2.9	<0.25 U	<0.24 U	2.8	<0.24 U	<0.25 U
PFDA	--	300	ng/L	<0.27 U	<0.29 U	<0.29 U	<0.29 U	<0.27 U	<0.29 U	<0.28 U	<0.29 U
PFUnA	--	3,000	ng/L	<0.95 U	<1.0 U	<1.0 U	<1.0 U	<0.96 U	<1.0 U	<0.99 U	<1.0 U
PFDaA	--	500	ng/L	<0.48 U	<0.51 U	<0.52 U	<0.51 U	<0.48 U	<0.51 U	<0.50 U	<0.52 U
PFTriA	--		ng/L	<1.1 U	<1.2 U	<1.2 U	<1.2 UJ-	<1.1 U	<1.2 U	<1.2 U	<1.2 U
PFTeA	--	10,000	ng/L	<0.63 U	<0.68 U	<0.69 U	<0.68 U	<0.64 U	<0.67 U	<0.66 U	<0.69 U
PFHxDA	--		ng/L	<0.77 U	<0.83 U	<0.85 U	<0.83 U	<0.78 U	<0.82 U	<0.80 U	<0.84 U
PFODA	--	400,000	ng/L	<0.82 U	<0.87 U	<0.89 U	<0.88 UJ-	<0.82 U	<0.87 U	<0.85 U	<0.88 U
PFBS	--	450,000	ng/L	0.51 J	0.41 J	0.58 J	<0.19 U	0.45 J	1.2 J	<0.18 U	<0.19 U
PFPeS	--		ng/L	<0.26 U	<0.28 U	<0.29 U	<0.28 U	<0.26 U	0.52 J	<0.27 U	<0.28 U
PFHxS	--	40	ng/L	3.3	2.3	3.1	<0.53 U	0.81 J	8.7	<0.51 U	<0.54 U
PFHpS	--		ng/L	<0.16 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.17 U	<0.18 U
PFOS	20		ng/L	<0.47 U	0.78 J	1.7 J	<0.51 U	<0.47 U	3.0	<0.49 U	<0.51 U
PFNS	--		ng/L	<0.32 U	<0.34 U	<0.35 U	<0.35 U	<0.32 U	<0.34 U	<0.33 U	<0.35 U
PFDS	--		ng/L	<0.28 U	<0.30 U	<0.30 U	<0.30 U	<0.28 U	<0.30 U	<0.29 U	<0.30 U
PFDoS	--		ng/L	<0.84 U	<0.90 U	<0.92 U	<0.91 U	<0.85 U	<0.90 U	<0.88 U	<0.91 U
4:2 FTS	--		ng/L	<0.21 U	<0.22 U	<0.23 U	<0.22 U	<0.21 U	<0.22 U	<0.22 U	<0.23 U
6:2 FTS	--		ng/L	<2.2 U	<2.3 U	<2.4 U	<2.3 U	<2.2 U	5.4	<2.3 U	<2.4 U
8:2 FTS	--		ng/L	<0.40 U	<0.43 U	<0.44 U	<0.43 U	<0.40 U	<0.42 U	<0.42 U	<0.43 U
10:2 FTS	--		ng/L	<0.58 U	<0.62 U	<0.64 U	<0.63 U	<0.59 U	<0.62 U	<0.61 U	<0.63 U
FOSA	--	20	ng/L	<0.85 U	<0.91 U	<0.93 U	<0.92 U	<0.86 U	<0.90 U	5.1	3.9
NMeFOSA	--		ng/L	<0.37 U	<0.40 U	<0.41 U	<0.40 U	<0.38 U	<0.40 U	<0.39 U	<0.40 U
NEtFOSA	--	20	ng/L	<0.76 U	<0.81 U	<0.83 U	<0.81 U	<0.76 U	<0.80 U	<0.79 U	<0.82 U
NMeFOSAA	--		ng/L	<1.0 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U
NEtFOSAA	--	20	ng/L	<1.1 U	<1.2 U	<1.2 U	<1.2 U	<1.1 U	<1.2 U	<1.2 U	<1.2 U
NMeFOSE	--		ng/L	<1.2 U	<1.3 U	<1.3 U	<1.3 U	<1.2 U	<1.3 U	<1.3 U	<1.3 U
NEtFOSE	--	20	ng/L	<0.74 U	<0.79 U	<0.81 U	<0.80 U	<0.75 U	<0.78 U	<0.77 U	<0.80 U
HFPO-DA (GenX)	--	300	ng/L	<1.3 U	<1.4 U	<1.4 U	<1.4 U	<1.3 U	<1.4 U	<1.4 U	<1.4 U
DONA	--	3,000	ng/L	<0.35 U	<0.37 U	<0.38 U	<0.37 U	<0.35 U	<0.37 U	<0.36 U	<0.38 U
9CI-PF3ONS	--		ng/L	<0.21 U	<0.22 U	<0.23 U	<0.22 U	<0.21 U	<0.22 U	<0.22 U	<0.23 U
11CI-PF3OUdS	--		ng/L	<0.28 U	<0.30 U	<0.30 U	<0.30 UJ-	<0.28 U	<0.30 U	<0.29 U	<0.30 U

Notes on Page 18.

**Table 2**  
**Potable Well Results**  
**Potable Well Sampling Program Annual Summary Report - FTC Sampling Area**  
**Marinette, Wisconsin**

			Location	WS-099	WS-100	WS-106R				
			Sample ID	POET-15-POST (121421)	POET-24-POST (121521)	WS-106R (042921)	WS-106R (083121)	WS-106R (112421)	WS-106R (122121)	WS-106R (020822)
			Sample Date	12/14/2021	12/15/2021	4/29/2021	8/31/2021	11/24/2021	12/21/2021	2/8/2022
			Sample Event	POET Effluent	POET Effluent	Spring 2021	Summer 2021	Fall 2021	Fall 2021	Winter 2022
			Sample Type	N	N	N	N	N	N	N
			General Well Depth	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
			Detailed Well Depth	18	28	37	37	37	37	37
			Source	-	+	+	+	+	+	+
Chemical Name	June 2019 WDHS (Not Adopted by WDNR Board) <sup>(1)</sup>	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) <sup>(2)</sup>	Unit							
PFBA	--	10,000	ng/L	<2.2 U	5.1	18	18	16	16	18
PFPeA	--		ng/L	<0.45 U	1.8 J	92	93	93	79	100
PFHxA	--	150,000	ng/L	<0.53 U	<0.57 U	73	65	81	72	89
PFHpA	--		ng/L	<0.23 U	<0.24 U	38	41	44	38	41
PFOA	20		ng/L	<0.78 U	<0.83 U	530	440 D	580 D	520 D	540 D
PFNA	--	30	ng/L	<0.25 U	<0.26 U	3.1	1.7 J	3.6	3.3	2.1
PFDA	--	300	ng/L	<0.28 U	<0.30 U	<1.9 UB	<0.27 U	<0.29 U	<0.30 U	<0.28 U
PFUnA	--	3,000	ng/L	<1.0 U	<1.1 U	<1.0 U	<0.97 U	<1.0 U	<1.1 U	<0.99 U
PFDoA	--	500	ng/L	<0.50 U	<0.54 U	<0.51 U	<0.49 U	<0.52 U	<0.53 U	<0.49 U
PFTriA	--		ng/L	<1.2 U	<1.3 U	<1.2 U	<1.1 U	<1.2 U	<1.3 U	<1.2 U
PFTeA	--	10,000	ng/L	<0.67 U	<0.71 U	<0.68 U	<0.64 U	<0.69 U	<0.70 U	<0.66 U
PFHxDA	--		ng/L	<0.81 U	<0.87 U	<0.83 U	<0.78 U	<0.84 U	<0.86 U	<0.80 U
PFODA	--	400,000	ng/L	<0.86 U	<0.92 U	<0.88 U	<0.83 U	<0.88 U	<0.91 U	<0.85 U
PFBS	--	450,000	ng/L	<0.18 U	<0.20 U	2.1	2.2	1.6 J	1.2 J	1.9
PFPeS	--		ng/L	<0.27 U	<0.29 U	1.9	1.8	1.4 J	1.3 J	1.5 J
PFHxS	--	40	ng/L	<0.52 U	<0.56 U	30	25	31	29	27
PFHpS	--		ng/L	<0.17 U	<0.19 U	<0.18 U	<0.17 U	0.18 J	<0.18 U	<0.17 U
PFOS	20		ng/L	<0.49 U	<0.53 U	1.7 JN	1.5 JN	<0.51 U	<0.52 U	<0.49 U
PFNS	--		ng/L	<0.34 U	<0.36 U	<0.34 U	<0.33 U	<0.35 U	<0.36 U	<0.33 U
PFDS	--		ng/L	<0.29 U	<0.31 U	<0.30 U	<0.28 U	<0.30 U	<0.31 U	<0.29 U
PFDoS	--		ng/L	<0.89 U	<0.95 U	<0.90 U	<0.86 U	<0.91 U	<0.94 U	<0.87 U
4:2 FTS	--		ng/L	<0.22 U	<0.23 U	<2.2 U	0.85 J	0.86 J	0.69 J	0.71 J
6:2 FTS	--		ng/L	<2.3 U	<2.4 U	23	28	34	25	27
8:2 FTS	--		ng/L	<0.42 U	<0.45 U	<0.43 U	<0.41 U	<0.43 U	<0.44 U	<0.41 U
10:2 FTS	--		ng/L	<0.61 U	<0.65 U	<0.62 U	<0.59 U	<0.63 U	<0.65 U	<0.60 U
FOSA	--	20	ng/L	<0.90 U	<0.96 U	<0.91 U	<0.86 U	<0.92 U	<0.94 U	1.2 J
NMeFOSA	--		ng/L	<0.39 U	<0.42 U	<0.40 U	<0.38 U	<0.40 U	<0.41 U	<0.39 U
NEtFOSA	--	20	ng/L	<0.79 U	<0.85 U	<0.81 U	<0.77 U	<0.82 U	<0.84 U	<0.78 U
NMeFOSAA	--		ng/L	<1.1 U	<1.2 U	<1.1 U	<1.1 U	<1.1 U	<1.2 U	<1.1 U
NEtFOSAA	--	20	ng/L	<1.2 U	<1.3 U	<1.2 U	<1.1 U	<1.2 U	<1.3 U	<1.2 U
NMeFOSE	--		ng/L	<1.3 U	<1.4 U	<1.3 U	<1.2 U	<1.3 U	<1.3 U	<1.3 U
NEtFOSE	--	20	ng/L	<0.78 U	<0.83 U	<0.79 U	<0.75 U	<0.80 U	<0.82 U	<0.76 U
HFPO-DA (GenX)	--	300	ng/L	<1.4 U	<1.5 U	<1.4 U	<1.3 U	<1.4 U	<1.4 U	<1.3 U
DONA	--	3,000	ng/L	<0.37 U	<0.39 U	<0.37 U	<0.35 U	<0.38 U	<0.39 U	<0.36 U
9CI-PF3ONS	--		ng/L	<0.22 U	<0.23 U	<0.22 U	<0.21 U	<0.23 U	<0.23 U	<0.22 U
11CI-PF3OUdS	--		ng/L	<0.29 U	<0.31 U	<0.30 U	<0.28 U	<0.30 U	<0.31 U	<0.29 U

Notes on Page 18.

**Table 2**  
**Potable Well Results**  
**Potable Well Sampling Program Annual Summary Report - FTC Sampling Area**  
**Marinette, Wisconsin**

			Location	WS-109	WS-111	WS-114		WS-115		WS-116
			Sample ID	POET-17-POST (020822)	POET-18-POST (011922)	DUP-414 (051221)	WS-114 (051221)	WS-115 (101221)	POET-20-POST (121421)	DUP-427 (080421)
			Sample Date	2/8/2022	1/19/2022	5/12/2021	5/12/2021	10/12/2021	12/14/2021	8/4/2021
			Sample Event	POET Effluent	POET Effluent	Spring 2021	Spring 2021	Fall 2021	POET Effluent	Summer 2021
			Sample Type	N	N	FD	N	N	N	FD
			General Well Depth	Shallow	Shallow	Deep	Deep	Shallow	Shallow	N/A
			Detailed Well Depth	N/A	17	100-140	100-140	N/A	N/A	N/A
			Source	N/A	-	-	-	N/A	N/A	N/A
Chemical Name	June 2019 WDHS (Not Adopted by WDNR Board) <sup>(1)</sup>	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) <sup>(2)</sup>	Unit							
PFBA	--	10,000	ng/L	<2.2 U	2.4 J	<2.2 U	<2.2 U	<2.2 U	<2.3 U	<2.1 U
PFPeA	--		ng/L	<0.46 U	<0.45 U	<0.45 U	<0.46 U	<0.45 U	<0.47 U	<0.43 U
PFHxA	--	150,000	ng/L	<0.54 U	<0.53 U	<0.53 U	<0.54 U	<0.54 U	<0.55 U	<0.51 U
PFHpA	--		ng/L	<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.24 U	<0.22 U
PFOA	20		ng/L	<0.79 U	<0.77 U	<0.77 U	<0.79 U	<0.78 U	<0.81 U	<0.75 U
PFNA	--	30	ng/L	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.26 U	<0.24 U
PFDA	--	300	ng/L	<0.29 U	<0.28 U	<0.28 U	<0.29 U	<0.29 U	<0.29 U	<0.27 U
PFUnA	--	3,000	ng/L	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<0.98 U
PFDaA	--	500	ng/L	<0.51 U	<0.50 U	<0.50 U	<0.51 U	<0.51 U	<0.52 U	<0.49 U
PFTriA	--		ng/L	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U
PFTeA	--	10,000	ng/L	<0.68 U	<0.66 U	<0.66 U	<0.68 U	<0.67 U	<0.69 U	<0.65 U
PFHxDA	--		ng/L	<0.83 U	<0.81 U	<0.81 U	<0.83 U	<0.82 U	<0.85 U	<0.79 U
PFODA	--	400,000	ng/L	<0.87 U	<0.85 U	<0.86 U	<0.87 U	<0.87 U	<0.89 U	<0.83 U
PFBS	--	450,000	ng/L	<0.19 U	<0.18 U	<0.18 U	<0.19 U	<0.18 U	<0.19 U	<0.18 U
PFPeS	--		ng/L	<0.28 U	<0.27 U	<0.27 U	<0.28 U	<0.28 U	<0.29 U	<0.27 U
PFHxS	--	40	ng/L	<0.53 U	<0.52 U	<0.52 U	<0.53 U	<0.53 U	<0.54 U	<0.51 U
PFHpS	--		ng/L	<0.18 U	<0.17 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U
PFOS	20		ng/L	<0.50 U	<0.49 U	<0.49 U	<0.50 U	<0.50 U	<0.51 U	<0.48 U
PFNS	--		ng/L	<0.34 U	<0.34 U	<0.34 U	<0.34 U	<0.34 U	<0.35 U	<0.33 U
PFDS	--		ng/L	<0.30 U	<0.29 U	<0.29 U	<0.30 U	<0.30 U	<0.30 U	<0.28 U
PFDoS	--		ng/L	<0.90 U	<0.88 U	<0.88 U	<0.90 U	<0.89 U	<0.92 U	<0.86 U
4:2 FTS	--		ng/L	<0.22 U	<0.22 U	<0.22 U	<0.22 U	<0.22 U	<0.23 U	<0.21 U
6:2 FTS	--		ng/L	<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.4 U	<2.2 U
8:2 FTS	--		ng/L	<0.43 U	<0.42 U	<0.42 U	<0.43 U	<0.42 U	<0.44 U	<0.41 U
10:2 FTS	--		ng/L	<0.62 U	<0.61 U	<0.61 U	<0.62 U	<0.62 U	<0.64 U	<0.59 U
FOSA	--	20	ng/L	2.1	<0.89 U	<0.89 U	1.3 J	<0.90 U	<0.93 U	0.92 J
NMeFOSA	--		ng/L	<0.40 U	<0.39 U	<0.39 U	<0.40 U	<0.40 U	<0.41 U	<0.38 U
NEtFOSA	--	20	ng/L	<0.81 U	<0.79 U	<0.79 U	<0.81 U	<0.80 U	<0.83 U	<0.77 U
NMeFOSAA	--		ng/L	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U
NEtFOSAA	--	20	ng/L	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U
NMeFOSE	--		ng/L	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.2 U
NEtFOSE	--	20	ng/L	<0.79 U	<0.77 U	<0.77 U	<0.79 U	<0.78 U	<0.81 U	<0.75 U
HFPO-DA (GenX)	--	300	ng/L	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.3 U
DONA	--	3,000	ng/L	<0.37 U	<0.36 U	<0.36 U	<0.37 U	<0.37 U	<0.38 U	<0.35 U
9CI-PF3ONS	--		ng/L	<0.22 U	<0.22 U	<0.22 U	<0.22 U	<0.22 U	<0.23 U	<0.21 U
11CI-PF3OUdS	--		ng/L	<0.30 U	<0.29 U	<0.29 U	<0.30 U	<0.30 U	<0.30 U	<0.28 U

Notes on Page 18.



**Table 2**  
**Potable Well Results**  
**Potable Well Sampling Program Annual Summary Report - FTC Sampling Area**  
**Marinette, Wisconsin**

			Location	WS-116 (continued)	WS-121A	WS-121B		WS-126		WS-127
			Sample ID	WS-116 (080421)	POET-16-POST (021622)	WS-121B (112221)	WS-121B (021622)	WS-126 (040921)	POET-23-POST (012822)	DUP-419 (060421)
			Sample Date	8/4/2021	2/16/2022	11/22/2021	2/16/2022	4/9/2021	1/28/2022	6/4/2021
			Sample Event	Summer 2021	POET Effluent	Fall 2021	Winter 2022	Spring 2021	POET Effluent	Spring 2021
			Sample Type	N	N	N	N	N	N	FD
			General Well Depth	N/A	Shallow	Shallow	Shallow	Shallow	Shallow	Deep
			Detailed Well Depth	N/A	N/A	N/A	N/A	32	32	112
			Source	N/A	N/A	N/A	N/A	+	+	+
Chemical Name	June 2019 WDHS (Not Adopted by WDNR Board) <sup>(1)</sup>	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) <sup>(2)</sup>	Unit							
PFBA	--	10,000	ng/L	<2.1 U	<2.2 U	<2.2 U	<2.1 U	<2.2 U	<2.2 U	<2.2 U
PFPeA	--		ng/L	<0.44 U	<0.45 U	0.64 J	0.72 J	<0.45 U	<0.45 U	<0.44 U
PFHxA	--	150,000	ng/L	<0.51 U	<0.54 U	0.86 J	1.2 J	<0.53 U	<0.53 U	<0.52 U
PFHpA	--		ng/L	<0.22 U	<0.23 U	0.46 J	0.50 J	<0.23 U	<0.23 U	<0.22 U
PFOA	20		ng/L	<0.75 U	<0.79 U	1.7 J	2.2	<0.78 U	<0.77 U	<0.76 U
PFNA	--	30	ng/L	<0.24 U	<0.25 U	<0.25 U	<0.23 U	<0.25 U	<0.25 U	<0.24 U
PFDA	--	300	ng/L	<0.28 U	<0.29 U	<0.29 U	<0.27 U	<0.28 U	<0.28 U	<0.28 U
PFUnA	--	3,000	ng/L	<0.98 U	<1.0 U	<1.0 U	<0.95 U	<1.0 U	<1.0 U	<0.99 U
PFDaA	--	500	ng/L	<0.49 U	<0.51 U	<0.51 U	<0.48 U	<0.51 U	<0.50 U	<0.49 U
PFTriA	--		ng/L	<1.2 U	<1.2 U	<1.2 U	<1.1 U	<1.2 U	<1.2 U	<1.2 U
PFTeA	--	10,000	ng/L	<0.65 U	<0.67 U	<0.68 U	<0.63 U	<0.67 U	<0.66 U	<0.66 U
PFHxDA	--		ng/L	<0.79 U	<0.82 U	<0.83 U	<0.77 U	<0.82 U	<0.81 U	<0.80 U
PFODA	--	400,000	ng/L	<0.83 U	<0.87 U	<0.88 U	<0.82 U	<0.86 U	<0.86 U	<0.84 U
PFBS	--	450,000	ng/L	<0.18 U	<0.18 U	<0.19 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U
PFPeS	--		ng/L	<0.27 U	<0.28 U	<0.28 U	<0.26 U	<0.28 U	<0.27 U	<0.27 U
PFHxS	--	40	ng/L	<0.51 U	<0.53 U	<0.53 U	<0.49 U	<0.52 U	<0.52 U	<0.51 U
PFHpS	--		ng/L	<0.17 U	<0.18 U	<0.18 U	<0.16 U	<0.17 U	<0.17 U	<0.17 U
PFOS	20		ng/L	<0.48 U	<0.50 U	<0.51 U	<0.47 U	<0.50 U	<0.49 U	<0.48 U
PFNS	--		ng/L	<0.33 U	<0.34 U	<0.35 U	<0.32 U	<0.34 U	<0.34 U	<0.33 U
PFDS	--		ng/L	<0.28 U	<0.30 U	<0.30 U	<0.28 U	<0.29 U	<0.29 U	<0.29 U
PFDoS	--		ng/L	<0.86 U	<0.90 U	<0.91 U	<0.84 U	<0.89 U	<0.88 U	<0.87 U
4:2 FTS	--		ng/L	<0.21 U	<0.22 U	<0.22 U	<0.21 U	<0.22 U	<0.22 U	<0.22 U
6:2 FTS	--		ng/L	<2.2 U	<2.3 U	<2.3 U	<2.2 U	<2.3 U	<2.3 U	<2.2 U
8:2 FTS	--		ng/L	<0.41 U	<0.43 U	<0.43 U	<0.40 U	<0.42 U	<0.42 U	<0.41 U
10:2 FTS	--		ng/L	<0.59 U	<0.62 U	<0.63 U	<0.58 U	<0.62 U	<0.61 U	<0.60 U
FOSA	--	20	ng/L	1.4 J	<0.91 U	<0.92 U	<0.85 U	<0.90 U	<0.89 U	3.8
NMeFOSA	--		ng/L	<0.38 U	<0.40 U	<0.40 U	<0.37 U	<0.40 U	<0.39 U	<0.39 U
NEtFOSA	--	20	ng/L	<0.77 U	<0.80 U	<0.81 U	<0.75 U	<0.80 U	<0.79 U	<0.78 U
NMeFOSAA	--		ng/L	<1.1 U	<1.1 U	<1.1 U	<1.0 U	<1.1 U	<1.1 U	<1.1 U
NEtFOSAA	--	20	ng/L	<1.2 U	<1.2 U	<1.2 U	<1.1 U	<1.2 U	<1.2 U	<1.2 U
NMeFOSE	--		ng/L	<1.2 U	<1.3 U	<1.3 U	<1.2 U	<1.3 U	<1.3 U	<1.3 U
NEtFOSE	--	20	ng/L	<0.75 U	<0.79 U	<0.79 U	<0.74 U	<0.78 U	<0.77 U	<0.76 U
HFPO-DA (GenX)	--	300	ng/L	<1.3 U	<1.4 U	<1.4 U	<1.3 U	<1.4 U	<1.4 U	<1.3 U
DONA	--	3,000	ng/L	<0.36 U	<0.37 U	<0.37 U	<0.35 U	<0.37 U	<0.36 U	<0.36 U
9Cl-PF3ONS	--		ng/L	<0.21 U	<0.22 U	<0.22 U	<0.21 U	<0.22 U	<0.22 U	<0.22 U
11Cl-PF3OUdS	--		ng/L	<0.28 U	<0.30 U	<0.30 U	<0.28 U	<0.29 U	<0.29 U	<0.29 U

Notes on Page 18.

**Table 2**  
**Potable Well Results**  
**Potable Well Sampling Program Annual Summary Report - FTC Sampling Area**  
**Marinette, Wisconsin**

			Location	WS-127 (continued)	WS-129				WS-133		WS-137	WS-140
			Sample ID	WS-127 (060421)	WS-129 (102621)	WS-129 (011122)	WS-129 (031522)	DUP-415 (051821)	WS-133 (051821)	WS-137 (051821)	DUP-441 (111921)	
			Sample Date	6/4/2021	10/26/2021	1/11/2022	3/15/2022	5/18/2021	5/18/2021	5/18/2021	11/19/2021	
			Sample Event	Spring 2021	Fall 2021	Winter 2022	Winter 2022	Spring 2021	Spring 2021	Spring 2021	Fall 2021	
			Sample Type	N	N	N	N	FD	N	N	FD	
			General Well Depth	Deep	Shallow	Shallow	Shallow	N/A	N/A	Deep	Shallow	
			Detailed Well Depth	112	20	20	20	N/A	N/A	130	29	
			Source	+	-	-	-	N/A	N/A	-	-	
Chemical Name	June 2019 WDHS (Not Adopted by WDNR Board) <sup>(1)</sup>	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) <sup>(2)</sup>	Unit									
PFBA	--	10,000	ng/L	<2.1 U	<2.2 U	<2.3 U	<2.3 U	6.7	6.4	<2.2 U	<2.2 U	
PFPeA	--		ng/L	<0.42 U	1.3 J	1.7 J	2.2	3.8	3.7	<0.46 U	0.62 J	
PFHxA	--	150,000	ng/L	<0.50 U	1.1 J	1.5 J	1.9	2.3	2.4	<0.54 U	<0.53 U	
PFHpA	--		ng/L	<0.22 U	0.51 J	0.66 J	0.82 J	0.98 J	1.1 J	<0.23 U	<0.23 U	
PFOA	20		ng/L	<0.74 U	2.4	2.9	3.5	8.6	8.4	<0.79 U	<0.78 U	
PFNA	--	30	ng/L	<0.23 U	<0.25 U	<0.26 U	<0.26 U	<0.24 U	<0.26 U	<0.25 U	<0.25 U	
PFDA	--	300	ng/L	<0.27 U	<0.28 U	<0.29 U	<0.30 U	<0.27 U	<0.29 U	<0.29 U	<0.28 U	
PFUnA	--	3,000	ng/L	<0.95 U	<1.0 U	<1.0 U	<1.1 U	<0.96 U	<1.0 U	<1.0 U	<1.0 U	
PFDaA	--	500	ng/L	<0.48 U	<0.50 U	<0.52 U	<0.53 U	<0.48 U	<0.52 U	<0.51 U	<0.50 U	
PFTriA	--		ng/L	<1.1 U	<1.2 U	<1.2 U	<1.3 U	<1.1 U	<1.2 U	<1.2 U	<1.2 U	
PFTeA	--	10,000	ng/L	<0.63 U	<0.67 U	<0.69 U	<0.71 U	<0.64 U	<0.69 U	<0.68 U	<0.67 U	
PFHxDA	--		ng/L	<0.77 U	<0.81 U	<0.84 U	<0.86 U	<0.78 U	<0.85 U	<0.83 U	<0.82 U	
PFODA	--	400,000	ng/L	<0.82 U	<0.86 U	<0.89 U	<0.91 U	<0.82 U	<0.89 U	<0.88 U	<0.86 U	
PFBS	--	450,000	ng/L	<0.17 U	<0.18 U	<0.19 U	<0.19 U	1.4 J	1.1 J	<0.19 U	5.9	
PFPeS	--		ng/L	<0.26 U	<0.27 U	<0.28 U	<0.29 U	<0.26 U	<0.29 U	<0.28 U	<0.27 U	
PFHxS	--	40	ng/L	<0.49 U	<0.52 U	<0.54 U	<0.55 U	0.57 JN	0.61 J	<0.53 U	<0.52 U	
PFHpS	--		ng/L	<0.16 U	<0.17 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.17 U	
PFOS	20		ng/L	<0.47 U	<0.49 U	<0.51 U	0.82 J	<0.47 U	<0.51 U	<0.50 U	<0.49 U	
PFNS	--		ng/L	<0.32 U	<0.34 U	<0.35 U	<0.36 U	<0.32 U	<0.35 U	<0.34 U	<0.34 U	
PFDS	--		ng/L	<0.28 U	<0.29 U	<0.30 U	<0.31 U	<0.28 U	<0.30 U	<0.30 U	<0.29 U	
PFDoS	--		ng/L	<0.84 U	<0.89 U	<0.92 U	<0.94 U	<0.85 U	<0.92 U	<0.90 U	<0.89 U	
4:2 FTS	--		ng/L	<0.21 U	<0.22 U	<0.23 U	<0.23 U	<0.21 U	<0.23 U	<0.22 U	<0.22 U	
6:2 FTS	--		ng/L	<2.2 U	<2.3 U	<2.4 U	<2.4 U	<2.2 U	<2.4 U	<2.3 U	<2.3 U	
8:2 FTS	--		ng/L	<0.40 U	<0.42 U	<0.44 U	<0.45 U	<0.40 U	<0.44 U	<0.43 U	<0.42 U	
10:2 FTS	--		ng/L	<0.58 U	<0.61 U	<0.63 U	<0.65 U	<0.59 U	<0.64 U	<0.62 U	<0.61 U	
FOSA	--	20	ng/L	4.6	<0.90 U	<0.93 U	<0.95 U	<0.86 U	<0.93 U	3.8	<0.90 U	
NMeFOSA	--		ng/L	<0.37 U	<0.39 U	<0.41 U	<0.42 U	<0.38 U	<0.41 U	<0.40 U	<0.39 U	
NEtFOSA	--	20	ng/L	<0.75 U	<0.80 U	<0.82 U	<0.84 U	<0.76 U	<0.83 U	<0.81 U	<0.80 U	
NMeFOSAA	--		ng/L	<1.0 U	<1.1 U	<1.1 U	<1.2 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	
NEtFOSAA	--	20	ng/L	<1.1 U	<1.2 U	<1.2 U	<1.3 U	<1.1 U	<1.2 U	<1.2 U	<1.2 U	
NMeFOSE	--		ng/L	<1.2 U	<1.3 U	<1.3 U	<1.4 U	<1.2 U	<1.3 U	<1.3 U	<1.3 U	
NEtFOSE	--	20	ng/L	<0.74 U	<0.78 U	<0.80 U	<0.82 U	<0.75 U	<0.81 U	<0.79 U	<0.78 U	
HFPO-DA (GenX)	--	300	ng/L	<1.3 U	<1.4 U	<1.4 U	<1.5 U	<1.3 U	<1.4 U	<1.4 U	<1.4 U	
DONA	--	3,000	ng/L	<0.35 U	<0.37 U	<0.38 U	<0.39 U	<0.35 U	<0.38 U	<0.37 U	<0.37 U	
9CI-PF3ONS	--		ng/L	<0.21 U	<0.22 U	<0.23 U	<0.23 U	<0.21 U	<0.23 U	<0.22 U	<0.22 U	
11CI-PF3OUdS	--		ng/L	<0.28 U	<0.29 U	<0.30 U	<0.31 U	<0.28 U	<0.30 U	<0.30 U	<0.29 U	

Notes on Page 18.

**Table 2**  
**Potable Well Results**  
**Potable Well Sampling Program Annual Summary Report - FTC Sampling Area**  
**Marinette, Wisconsin**

			Location	WS-140 (continued)	WS-143		WS-144		WS-145		WS-146AR	
			Sample ID	WS-140 (111921)	DUP-411 (042021)	WS-143 (042021)	DUP-413 (042921)	WS-144 (042921)	DUP-416 (052521)	WS-145 (052521)	WS-146AR (091521)	
			Sample Date	11/19/2021	4/20/2021	4/20/2021	4/29/2021	4/29/2021	5/25/2021	5/25/2021	9/15/2021	
			Sample Event	Fall 2021	Spring 2021	Spring 2021	Spring 2021	Spring 2021	Spring 2021	Spring 2021	Spring 2021	Summer 2021
			Sample Type	N	FD	N	FD	N	FD	N	N	
			General Well Depth	Shallow	Deep	Deep	N/A	N/A	Deep	Deep	Shallow	
			Detailed Well Depth	29	90	90	N/A	N/A	124	124	N/A	
			Source	-	+	+	N/A	N/A	+,-	+,-	N/A	
Chemical Name	June 2019 WDHS (Not Adopted by WDNR Board) <sup>(1)</sup>	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) <sup>(2)</sup>	Unit									
PFBA	--	10,000	ng/L	<2.2 U	<2.2 U	<2.2 U	<2.2 U	<2.2 U	<2.1 U	<2.1 U	95	
PFPeA	--		ng/L	0.54 J	<0.45 U	<0.44 U	<0.45 U	<0.46 U	<0.43 U	<0.43 U	280	
PFHxA	--	150,000	ng/L	<0.53 U	<0.54 U	<0.52 U	0.57 J	0.60 J	<0.51 U	<0.50 U	160	
PFHpA	--		ng/L	<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.23 U	<0.22 U	<0.22 U	130 J-	
PFOA	20		ng/L	<0.78 U	<0.78 U	<0.77 U	3.6	3.8	<0.75 U	<0.74 U	100	
PFNA	--	30	ng/L	<0.25 U	<0.25 U	<0.24 U	<0.25 U	<0.25 U	<0.24 U	<0.23 U	30	
PFDA	--	300	ng/L	<0.28 U	<0.29 U	<0.28 U	<0.29 U	<0.29 U	<0.27 U	<0.27 U	<0.29 U	
PFUnA	--	3,000	ng/L	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<0.97 U	<0.96 U	<1.0 U	
PFDaA	--	500	ng/L	<0.50 U	<0.51 U	<0.50 U	<0.51 U	<0.51 U	<0.49 U	<0.48 U	<0.51 U	
PFTriA	--		ng/L	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.1 U	<1.1 U	<1.2 U	
PFTeA	--	10,000	ng/L	<0.67 U	<0.67 U	<0.66 U	<0.68 U	<0.68 U	<0.64 U	<0.63 U	<0.68 U	
PFHxDA	--		ng/L	<0.81 U	<0.82 U	<0.81 U	<0.83 U	<0.83 U	<0.79 U	<0.77 U	<0.83 U	
PFODA	--	400,000	ng/L	<0.86 U	<0.87 U	<0.85 U	<0.87 U	<0.88 UJ-	<0.83 U	<0.82 U	<0.87 U	
PFBS	--	450,000	ng/L	6.0	<0.18 U	<0.18 U	<0.19 U	<0.19 U	<0.18 U	<0.17 U	1.6 J	
PFPeS	--		ng/L	<0.27 U	<0.28 U	<0.27 U	<0.28 U	<0.28 U	<0.26 U	<0.26 U	0.89 JN	
PFHxS	--	40	ng/L	<0.52 U	<0.53 U	<0.52 U	<0.53 U	<0.53 U	<0.50 U	<0.50 U	8.1	
PFHpS	--		ng/L	<0.17 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	0.39 J	
PFOS	20		ng/L	<0.49 U	<0.50 U	<0.49 U	<0.50 U	<0.50 U	<0.48 U	<0.47 U	22 JN	
PFNS	--		ng/L	<0.34 U	<0.34 U	<0.33 U	<0.34 U	<0.35 U	<0.33 U	<0.32 U	<0.34 U	
PFDS	--		ng/L	<0.29 U	<0.30 U	<0.29 U	<0.30 U	<0.30 U	<0.28 U	<0.28 U	<0.30 U	
PFDoS	--		ng/L	<0.89 U	<0.90 U	<0.88 U	<0.90 U	<0.91 U	<0.86 U	<0.84 U	<0.90 U	
4:2 FTS	--		ng/L	<0.22 U	<0.22 U	<0.22 U	<0.22 U	<0.22 U	<0.21 U	<0.21 U	<0.22 U	
6:2 FTS	--		ng/L	<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.2 U	<2.2 U	9.3	
8:2 FTS	--		ng/L	<0.42 U	<0.42 U	<0.42 U	<0.43 U	<0.43 U	<0.41 U	<0.40 U	<0.43 U	
10:2 FTS	--		ng/L	<0.61 U	<0.62 U	<0.61 U	<0.62 U	<0.63 U	<0.59 U	<0.58 U	<0.62 U	
FOSA	--	20	ng/L	<0.89 U	1.9	1.5 J	<0.91 U	<0.91 U	5.4	5.7 J+	1.9	
NMeFOSA	--		ng/L	<0.39 U	<0.40 U	<0.39 U	<0.40 U	<0.40 U	<0.38 U	<0.37 U	<0.40 U	
NEtFOSA	--	20	ng/L	<0.79 U	<0.80 U	<0.79 U	<0.81 U	<0.81 U	<0.77 U	<0.76 U	<0.81 U	
NMeFOSAA	--		ng/L	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U	<1.0 U	<1.1 U	
NEtFOSAA	--	20	ng/L	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.1 U	<1.1 U	<1.2 U	
NMeFOSE	--		ng/L	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.2 U	<1.2 U	<1.3 U	
NEtFOSE	--	20	ng/L	<0.78 U	<0.78 U	<0.77 U	<0.79 U	<0.79 U	<0.75 U	<0.74 U	<0.79 U	
HFPO-DA (GenX)	--	300	ng/L	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.3 U	<1.3 U	<1.4 U	
DONA	--	3,000	ng/L	<0.37 U	<0.37 U	<0.36 U	<0.37 U	<0.37 U	<0.35 U	<0.35 U	<0.37 U	
9CI-PF3ONS	--		ng/L	<0.22 U	<0.22 U	<0.22 U	<0.22 U	<0.22 U	<0.21 U	<0.21 U	<0.22 U	
11CI-PF3OUdS	--		ng/L	<0.29 U	<0.30 U	<0.29 U	<0.30 U	<0.30 U	<0.28 U	<0.28 U	<0.30 U	

Notes on Page 18.

**Table 2**  
**Potable Well Results**  
**Potable Well Sampling Program Annual Summary Report - FTC Sampling Area**  
**Marinette, Wisconsin**

			Location	WS-146AR (continued)			WS-149	WS-151	WS-152		
			Sample ID	WS-146AR (111121)	WS-146AR (121521)	WS-146AR (031522)	WS-149 (041521)	WS-151 (042021)	WS-152 (062321)	WS-152 (072721)	WS-152 (110321)
			Sample Date	11/11/2021	12/15/2021	3/15/2022	4/15/2021	4/20/2021	6/23/2021	7/27/2021	11/3/2021
			Sample Event	Fall 2021	Fall 2021	Winter 2022	Spring 2021	Spring 2021	Spring 2021	Summer 2021	Fall 2021
			Sample Type	N	N	N	N	N	N	N	N
			General Well Depth	Shallow	Shallow	Shallow	N/A	Deep	Shallow	Shallow	Shallow
			Detailed Well Depth	N/A	N/A	N/A	N/A	162	28	28	28
			Source	N/A	N/A	N/A	N/A	+,-	+,-	+,-	+,-
Chemical Name	June 2019 WDHS (Not Adopted by WDNR Board) <sup>(1)</sup>	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) <sup>(2)</sup>	Unit								
PFBA	--	10,000	ng/L	82	84	94	<2.2 U	<2.2 U	4.2 J	<2.3 U	<2.3 U
PFPeA	--		ng/L	280	230	320	<0.45 U	<0.44 U	2.1	<0.46 U	<0.47 U
PFHxA	--	150,000	ng/L	170	140	170	<0.53 U	<0.52 U	1.9	<0.55 U	<0.56 U
PFHpA	--		ng/L	110	100	140	<0.23 U	<0.23 U	1.0 J	<0.24 U	0.24 J
PFOA	20		ng/L	85	85	120	<0.78 U	<0.77 U	<0.74 U	<0.81 U	<0.82 U
PFNA	--	30	ng/L	26	24	33	<0.25 U	<0.24 U	<0.24 U	<0.26 U	<0.26 U
PFDA	--	300	ng/L	<0.30 U	<0.30 U	<0.30 U	<0.28 U	<0.28 U	<0.27 U	<0.29 U	<0.30 U
PFUnA	--	3,000	ng/L	<1.1 U	<1.1 U	<1.1 U	<1.0 U	<0.99 U	<0.96 U	<1.0 U	<1.1 U
PFDaA	--	500	ng/L	<0.53 U	<0.53 U	<0.53 U	<0.50 U	<0.50 U	<0.48 U	<0.52 U	<0.53 U
PFTriA	--		ng/L	<1.2 U	<1.2 U	<1.3 U	<1.2 U	<1.2 U	<1.1 U	<1.2 U	<1.3 U
PFTeA	--	10,000	ng/L	<0.70 U	<0.70 U	<0.70 U	<0.67 U	<0.66 U	<0.64 U	<0.69 U	<0.70 U
PFHxDA	--		ng/L	<0.85 U	<0.85 U	<0.86 U	<0.81 U	<0.80 U	<0.78 U	<0.84 U	<0.86 U
PFODA	--	400,000	ng/L	<0.90 U	<0.90 U	<0.91 U	<0.86 U	<0.85 U	<0.82 U	<0.89 U	<0.91 U
PFBS	--	450,000	ng/L	1.7 J	1.2 J	1.5 J	<0.18 U	<0.18 U	0.32 J	<0.19 U	<0.19 U
PFPeS	--		ng/L	<0.29 U	0.97 J	0.96 J	<0.27 U	<0.27 U	<0.26 U	<0.28 U	<0.29 U
PFHxS	--	40	ng/L	9.3	10	12	<0.52 U	<0.51 U	<0.50 U	<0.54 U	<0.55 U
PFHpS	--		ng/L	<0.18 U	0.41 J	0.45 J	<0.17 U	<0.17 U	<0.17 U	<0.18 U	<0.18 U
PFOS	20		ng/L	24	21	30	<0.49 U	<0.49 U	2.0	<0.51 U	<0.52 U
PFNS	--		ng/L	<0.35 U	<0.35 U	<0.36 U	<0.34 U	<0.33 U	<0.32 U	<0.35 U	<0.36 U
PFDS	--		ng/L	<0.31 U	<0.31 U	<0.31 U	<0.29 U	<0.29 U	<0.28 U	<0.30 U	<0.31 U
PFDoS	--		ng/L	<0.93 U	<0.93 U	<0.93 U	<0.89 U	<0.87 U	<0.85 U	<0.92 U	<0.93 U
4:2 FTS	--		ng/L	<0.23 U	<0.23 U	<0.23 U	<0.22 U	<0.22 U	<0.21 U	<0.23 U	<0.23 U
6:2 FTS	--		ng/L	14	15	29	<2.3 U	<2.3 U	<2.2 U	<2.4 U	<2.4 U
8:2 FTS	--		ng/L	<0.44 U	0.51 J	0.68 J	<0.42 U	<0.41 U	<0.40 U	<0.44 U	<0.44 U
10:2 FTS	--		ng/L	<0.64 U	<0.64 U	<0.65 U	<0.61 U	<0.60 U	<0.59 U	<0.64 U	<0.65 U
FOSA	--	20	ng/L	<0.94 U	<0.94 U	1.9	6.8	4.8	<0.86 U	<0.93 U	<0.94 U
NMeFOSA	--		ng/L	<0.41 U	<0.41 U	<0.41 U	<0.39 U	<0.39 U	<0.38 U	<0.41 U	<0.41 U
NEtFOSA	--	20	ng/L	<0.83 U	<0.83 U	<0.84 U	<0.79 U	<0.78 U	<0.76 U	<0.83 U	<0.84 U
NMeFOSAA	--		ng/L	<1.2 U	<1.1 U	<1.2 U	<1.1 U	<1.1 U	<1.0 U	<1.1 U	<1.2 U
NEtFOSAA	--	20	ng/L	<1.2 U	<1.2 U	<1.3 U	<1.2 U	<1.2 U	<1.1 U	<1.2 U	<1.3 U
NMeFOSE	--		ng/L	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.2 U	<1.3 U	<1.3 U
NEtFOSE	--	20	ng/L	<0.82 U	<0.81 U	<0.82 U	<0.78 U	<0.77 U	<0.74 U	<0.81 U	<0.82 U
HFPO-DA (GenX)	--	300	ng/L	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.3 U	<1.4 U	<1.4 U
DONA	--	3,000	ng/L	<0.38 U	<0.38 U	<0.39 U	<0.37 U	<0.36 U	<0.35 U	<0.38 U	<0.39 U
9CI-PF3ONS	--		ng/L	<0.23 U	<0.23 U	<0.23 U	<0.22 U	<0.22 U	<0.21 U	<0.23 U	<0.23 U
11CI-PF3OUdS	--		ng/L	<0.31 U	<0.31 U	<0.31 U	<0.29 U	<0.29 U	<0.28 U	<0.30 U	<0.31 U

Notes on Page 18.

**Table 2**  
**Potable Well Results**  
**Potable Well Sampling Program Annual Summary Report - FTC Sampling Area**  
**Marinette, Wisconsin**

			Location	WS-152 (continued)	WS-154		WS-159		WS-163			WS-164
			Sample ID	WS-152 (012622)	DUP-407 (040821)	WS-154 (040821)	DUP-450 (011822)	WS-159 (011822)	WS-163 (062221)	WS-163 (091521)	WS-163 (111921)	WS-164 (060421)
			Sample Date	1/26/2022	4/8/2021	4/8/2021	1/18/2022	1/18/2022	6/22/2021	9/15/2021	11/19/2021	6/4/2021
			Sample Event	Winter 2022	Spring 2021	Spring 2021	Winter 2022	Winter 2022	Spring 2021	Summer 2021	Fall 2021	Spring 2021
			Sample Type	N	FD	N	FD	N	N	N	N	N
			General Well Depth	Shallow	Deep	Deep	Shallow	Shallow	N/A	N/A	N/A	Deep
			Detailed Well Depth	28	82	82	N/A	N/A	N/A	N/A	N/A	120
			Source	+,-	+,-	+,-	N/A	N/A	N/A	N/A	N/A	+
Chemical Name	June 2019 WDHS (Not Adopted by WDNR Board) <sup>(1)</sup>	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) <sup>(2)</sup>	Unit									
PFBA	--	10,000	ng/L	<2.2 U	<2.2 U	<2.2 U	29	25	15	19	21	<2.1 U
PFPeA	--		ng/L	0.46 J	<0.46 U	<0.45 U	18	16	86	86	94	<0.43 U
PFHxA	--	150,000	ng/L	<0.54 U	<0.54 U	<0.54 U	12	9.9	51	59	69	<0.51 U
PFHpA	--		ng/L	<0.23 U	<0.23 U	<0.23 U	8.4	8.1	31	34	38	<0.22 U
PFOA	20		ng/L	<0.78 U	<0.79 U	<0.79 U	6.8	6.6	150	170	160	<0.75 U
PFNA	--	30	ng/L	<0.25 U	<0.25 U	<0.25 U	<0.24 U	<0.22 U	2.0	2.6	1.9	<0.24 U
PFDA	--	300	ng/L	<0.29 U	<0.29 U	<0.29 U	<0.27 U	<0.26 U	<0.30 U	<0.29 U	<0.29 U	<0.27 U
PFUnA	--	3,000	ng/L	<1.0 U	<1.0 U	<1.0 U	<0.96 U	<0.91 U	<1.1 U	<1.0 U	<1.0 U	<0.97 U
PFDaA	--	500	ng/L	<0.51 U	<0.51 U	<0.51 U	<0.48 U	<0.45 U	<0.53 U	<0.52 U	<0.52 U	<0.48 U
PFTriA	--		ng/L	<1.2 U	<1.2 U	<1.2 U	<1.1 U	<1.1 U	<1.3 U	<1.2 U	<1.2 U	<1.1 U
PFTeA	--	10,000	ng/L	<0.67 U	<0.68 U	<0.68 U	<0.64 U	<0.60 U	<0.71 U	<0.69 U	<0.69 UB	<0.64 U
PFHxDA	--		ng/L	<0.82 U	<0.83 U	<0.82 U	<0.78 U	<0.74 U	<0.86 U	<0.84 U	<0.84 U	<0.78 U
PFODA	--	400,000	ng/L	<0.87 U	<0.88 U	<0.87 U	<0.82 U	<0.78 U	<0.91 U	<0.89 U	<0.89 U	<0.83 U
PFBS	--	450,000	ng/L	<0.18 U	<0.19 U	<0.19 U	1.3 J	1.2 J	1.7 J	2.0	1.4 J	<0.18 U
PFPeS	--		ng/L	<0.28 U	<0.28 U	<0.28 U	<0.26 U	0.32 J	1.6 J	2.2	1.6 J	<0.26 U
PFHxS	--	40	ng/L	<0.53 U	<0.53 U	<0.53 U	0.77 J	0.86 J	12	14	14	<0.50 U
PFHpS	--		ng/L	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.16 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U
PFOS	20		ng/L	<0.50 U	<0.50 U	<0.50 U	<0.47 U	0.95 J	<0.52 U	<0.51 U	0.78 J	<0.48 U
PFNS	--		ng/L	<0.34 U	<0.35 U	<0.34 U	<0.32 U	<0.31 U	<0.36 U	<0.35 U	<0.35 U	<0.33 U
PFDS	--		ng/L	<0.30 U	<0.30 U	<0.30 U	<0.28 U	<0.26 U	<0.31 U	<0.30 U	<0.30 U	<0.28 U
PFDoS	--		ng/L	<0.90 U	<0.90 U	<0.90 U	<0.85 U	<0.80 U	<0.94 U	<0.92 U	<0.92 U	<0.85 U
4:2 FTS	--		ng/L	<0.22 U	<0.22 U	<0.22 U	<0.21 U	<0.20 U	6.5 J+	6.6	6.2	<0.21 U
6:2 FTS	--		ng/L	<2.3 U	<2.3 U	<2.3 U	<2.2 U	<2.1 U	210	230	240	<2.2 U
8:2 FTS	--		ng/L	<0.42 U	<0.43 U	<0.43 U	<0.40 U	<0.38 U	<0.44 U	<0.43 U	<0.44 U	<0.40 U
10:2 FTS	--		ng/L	<0.62 U	<0.62 U	<0.62 U	<0.58 U	<0.55 U	<0.65 U	<0.63 U	<0.63 U	<0.59 U
FOSA	--	20	ng/L	<0.90 U	<0.91 U	<0.91 U	<0.85 U	<0.81 U	<0.95 U	1.3 J	<0.93 U	1.1 J
NMeFOSA	--		ng/L	<0.40 U	<0.40 U	<0.40 U	<0.37 U	<0.36 U	<0.42 U	<0.41 U	<0.41 U	<0.38 U
NEtFOSA	--	20	ng/L	<0.80 U	<0.81 U	<0.81 U	<0.76 U	<0.72 U	<0.84 U	<0.82 U	<0.82 U	<0.77 U
NMeFOSAA	--		ng/L	<1.1 U	<1.1 U	<1.1 U	<1.0 U	<0.99 U	<1.2 U	<1.1 U	<1.1 U	<1.1 U
NEtFOSAA	--	20	ng/L	<1.2 U	<1.2 U	<1.2 U	<1.1 U	<1.1 U	<1.3 U	<1.2 U	<1.2 U	<1.1 U
NMeFOSE	--		ng/L	<1.3 U	<1.3 U	<1.3 U	<1.2 U	<1.2 U	<1.4 U	<1.3 U	<1.3 U	<1.2 U
NEtFOSE	--	20	ng/L	<0.78 U	<0.79 U	<0.79 U	<0.74 U	<0.70 U	<0.82 U	<0.80 U	<0.80 U	<0.75 U
HFPO-DA (GenX)	--	300	ng/L	<1.4 U	<1.4 U	<1.4 U	<1.3 U	<1.2 U	<1.5 U	<1.4 U	<1.4 U	<1.3 U
DONA	--	3,000	ng/L	<0.37 U	<0.37 U	<0.37 U	<0.35 U	<0.33 U	<0.39 U	<0.38 U	<0.38 U	<0.35 U
9Cl-PF3ONS	--		ng/L	<0.22 U	<0.22 U	<0.22 U	<0.21 U	<0.20 U	0.37 J	<0.23 U	<0.23 U	<0.21 U
11Cl-PF3OUdS	--		ng/L	<0.30 U	<0.30 U	<0.30 U	<0.28 U	<0.26 U	<0.31 U	<0.30 U	<0.30 U	<0.28 U

Notes on Page 18.

**Table 2**  
**Potable Well Results**  
**Potable Well Sampling Program Annual Summary Report - FTC Sampling Area**  
**Marinette, Wisconsin**

**Notes:**

< = Compound not detected at method detection limit.

<sup>(1)</sup> = In June 2019 the Wisconsin Department of Health Services (DHS) recommended individual groundwater standards of 20 ng/L for PFOA and PFOS. The WDNR proposed those standards through the state rulemaking process. In February 2022, the Wisconsin Natural Resources Board did not approve the proposed rulemaking for groundwater. In August 2022, WDNR promulgated a drinking water standard of 70 ng/L for PFOA and PFOS, individually and combined, for public water systems. This standard does not apply to private drinking water wells.

<sup>(2)</sup> = In November 2020 the Wisconsin DHS recommended a combined groundwater standard of 20 ng/L for: FOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFOS and PFOA. DHS also recommended individual standards for FOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFBS, PFHxS, PFNA, PFDA, PFDoA, PFHxA, PFTeA, PFUnA, PFBA, PFODA, DONA, and GenX. In March 2021, The Wisconsin Natural Resources Board approved a Statement of Scope to initiate a rulemaking for this recommendation. The WDNR has not yet proposed rules to initiate the rulemaking process to implement this recommendation; the agency's authority to do so under the Statement of Scope will expire in September 2023.

-- = No standard

FD = Field Duplicate

N = Normal sample

ng/L = nanograms per liter

- = Information gathered from sampling log according to homeowners

+ = Information gathered from well construction form

+, - = Information gathered from well construction form, but information also available from sampling log

Detailed well depth in feet

POET (Point of Entry Treatment) = Sample collected as part of the POET system monitoring program

POET Effluent = Effluent sample collected prior to granular activated carbon change

Spring 2021 = Sample collected as part of the the specified potable well sampling event

**Data Qualifier:**

U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample

D = Dilution required for sample analysis

UJ = The compound was not detected above the reported sample method detection limit. However, the reported limit is approximate and may or may not represent the actual method detection limit.

UB = Compound considered non-detect at the listed value due to associated blank contamination.

J- = The result is an estimated quantity. The associated numerical value is expected to have a negative or low bias.

J+ = The result is an estimated quantity. The associated numerical value is expected to have a positive or high bias.

JN = The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only

UJ- = The compound was not detected above the reported sample method detection limit. However, the reported limit is expected to be biased low and may or may not represent the actual method detection limit.

**Chemical Abbreviations:**

PFOA = Perfluorooctanoic acid (C8)

PFOS = Perfluorooctanesulfonic acid (C8)

PFBS = Perfluorobutanesulfonic acid (C4)

PFHpA = Perfluoroheptanoic acid (C7)

PFHxS = Perfluorohexanesulfonic acid (C6)

PFNA = Perfluorononanoic acid (C9)

PFDA = Perfluorodecanoic acid (C10)

PFDoA = Perfluorododecanoic acid (C12)

PFHxA = Perfluorohexanoic acid (C6)

PFTeA = Perfluorotetradecanoic acid (C14)

PFTriA = Perfluorotridecanoic acid (C13)

PFUnA = Perfluoroundecanoic acid (C11)

NEtFOSAA = N-ethylperfluorooctanesulfonamidoacetic acid (C12)

NMeFOSAA = N-methylperfluorooctanesulfonamidoacetic acid (C11)

PFBA = Perfluorobutanoic acid (C4)

PFPeA = Perfluoropentanoic acid (C5)

PFHxDA = Perfluoro-n-hexadecanoic acid (C16)

PFODA = Perfluoro-n-octadecanoic acid (C18)

PFPeS = Perfluoropentanesulfonic acid (C5)

PFHpS = Perfluoroheptanesulfonic acid (C7)

PFNS = Perfluorononanesulfonic acid (C9)

PFDS = Perfluorodecanesulfonic acid (C10)

PFDoS = Perfluorododecanesulfonic acid (C12)

FOSA = Perfluorooctanesulfonamide (C8)

NEtFOSA = N-ethylperfluorooctanesulfonamide (C10)

NMeFOSA = N-methylperfluorooctanesulfonamide (C9)

NMeFOSE = N-methylperfluorooctanesulfonamidoethanol (C11)

NEtFOSE = N-ethylperfluorooctanesulfonamidoethanol (C12)

4:2 FTS = 4:2 fluorotelomer sulfonate (C6)

6:2 FTS = 6:2 fluorotelomer sulfonate (C8)

8:2 FTS = 8:2 fluorotelomer sulfonate (C10)

10:2 FTS = 10:2 fluorotelomer sulfonate (C12)

DONA = 4,8-Dioxa-3H-perfluorononanoic acid (C7)

HFPO-DA (GenX) = Hexafluoropropylene oxide dimer acid (C6)

9Cl-PF3ONS = 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (C8)

11Cl-PF3OUdS = 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (C10)



**Table 3**  
**List of Compounds**  
**Potable Well Sampling Program Annual Summary Report - FTC Sampling Area**  
**Marinette, Wisconsin**

Analyte	June 2019 WDHS (Not Adopted by WDNR Board) <sup>(1)</sup>	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) <sup>(2)</sup>	Units
PFBA	--	10,000	ng/L
PFPeA	--	--	ng/L
PFHxA	--	150,000	ng/L
PFHpA	--	--	ng/L
PFOA	20	--	ng/L
PFNA	--	30	ng/L
PFDA	--	300	ng/L
PFUnA	--	3,000	ng/L
PFDaA	--	500	ng/L
PFTriA	--	--	ng/L
PFTeA	--	10,000	ng/L
PFHxDA	--	--	ng/L
PFODA	--	400,000	ng/L
PFBS	--	450,000	ng/L
PFPeS	--	--	ng/L
PFHxS	--	40	ng/L
PFHpS	--	--	ng/L
PFOS	20	--	ng/L
PFNS	--	--	ng/L
PFDS	--	--	ng/L
PFDOS	--	--	ng/L
4:2 FTS	--	--	ng/L
6:2 FTS	--	--	ng/L
8:2 FTS	--	--	ng/L
10:2 FTS	--	--	ng/L
FOSA	--	20	ng/L
NMeFOSA	--	--	ng/L
NEtFOSA	--	20	ng/L
NMeFOSAA	--	--	ng/L
NEtFOSAA	--	20	ng/L
NMeFOSE	--	--	ng/L
NEtFOSE	--	20	ng/L
GenX	--	300	ng/L
DONA	--	3,000	ng/L
F-53 Major	--	--	ng/L
F-53B Minor	--	--	ng/L

**Notes:**

<sup>(1)</sup> = In June 2019 the Wisconsin Department of Health Services (DHS) recommended individual groundwater standards of 20 ng/L for PFOA and PFOS. The WDNR proposed those standards through the state rulemaking process. In February 2022, the Wisconsin Natural Resources Board did not approve the proposed rulemaking for groundwater. In August 2022, WDNR promulgated a drinking water standard of 70 ng/L for PFOA and PFOS, individually and combined, for public water systems. This standard does not apply to private drinking water wells.

<sup>(2)</sup> = In November 2020 the Wisconsin DHS recommended a combined groundwater standard of 20 ng/L for: FOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFOS and PFOA. DHS also recommended individual standards for FOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFBS, PFHxS, PFNA, PFDA, PFDaA, PFHxA, PFTeA, PFUnA, PFBA, PFODA, DONA, and GenX. In March 2021, The Wisconsin Natural Resources Board approved a Statement of Scope to initiate a rulemaking for this recommendation. The WDNR has not yet proposed rules to initiate the rulemaking process to implement this recommendation; the agency's authority to do so under the Statement of Scope will expire in September 2023.

ng/L = nanograms per liter

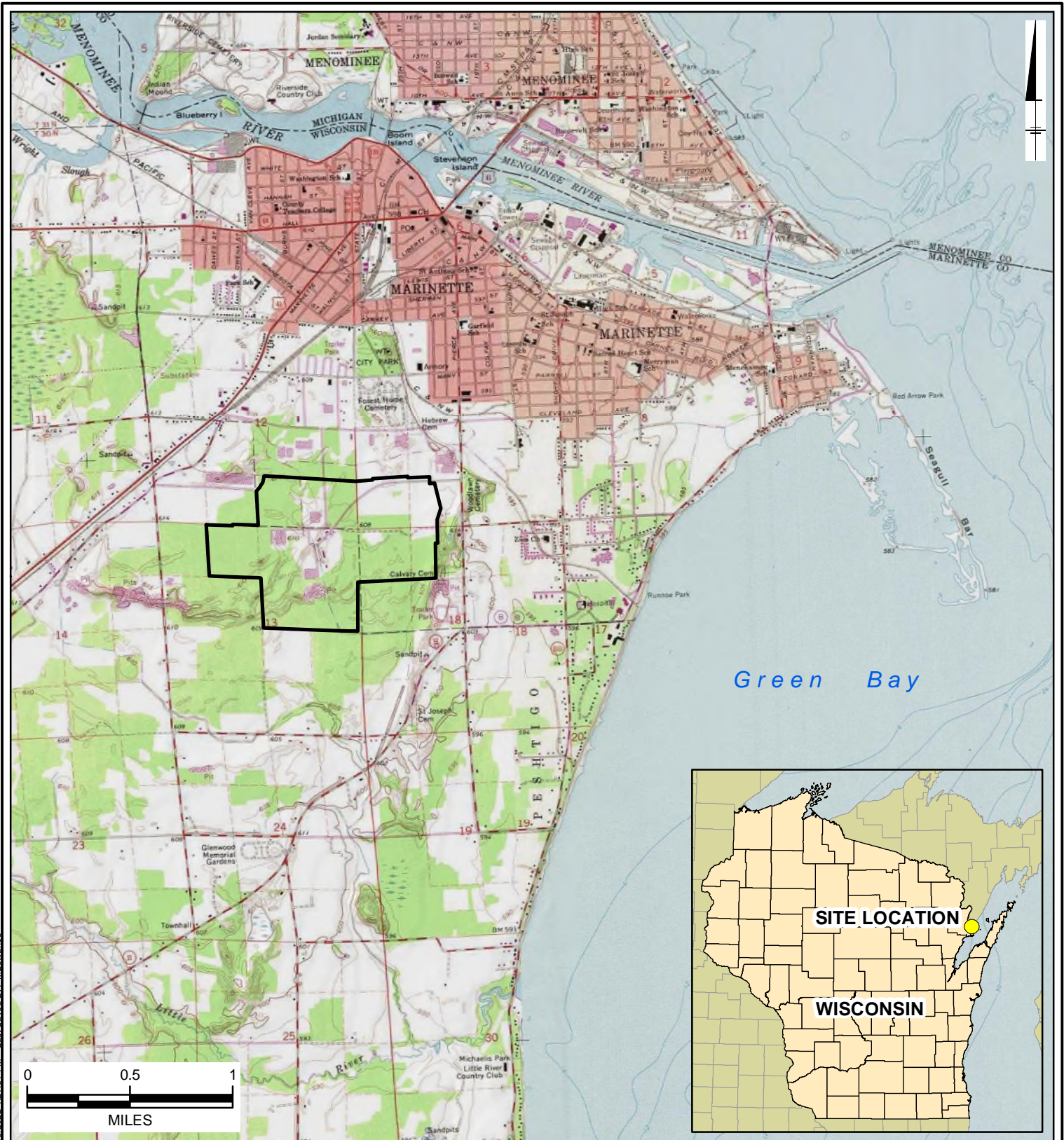


**Table 3**  
**List of Compounds**  
**Potable Well Sampling Program Annual Summary Report - FTC Sampling Area**  
**Marinette, Wisconsin**

**Chemical Abbreviations:**

Perfluorobutanoic acid (PFBA)  
Perfluoropentanoic acid (PFPeA)  
Perfluorohexanoic acid (PFHxA)  
Perfluoroheptanoic acid (PFHpA)  
Perfluorooctanoic acid (PFOA)  
Perfluorononanoic acid (PFNA)  
Perfluorodecanoic acid (PFDA)  
Perfluoroundecanoic acid (PFUnA)  
Perfluorododecanoic acid (PFDoA)  
Perfluorotridecanoic acid (PFTriA)  
Perfluorotetradecanoic acid (PFTeA)  
Perfluorohexadecanoic acid (PFHxDA)  
Perfluorooctadecanoic acid (PFODA)  
Perfluorobutane sulfonic acid (PFBS)  
Perfluoropentane sulfonic acid (PFPeS)  
Perfluorohexane sulfonic acid (PFHxS)  
Perfluoroheptane sulfonic acid (PFHpS)  
Perfluorooctane sulfonic acid (PFOS)  
Perfluorononane sulfonic acid (PFNS)  
Perfluorodecane sulfonic acid (PFDS)  
Perfluorododecane sulfonic acid (PFDOS)  
4:2 Fluorotelomer sulfonate (4:2 FTS)  
6:2 Fluorotelomer sulfonate (6:2 FTS)  
8:2 Fluorotelomer sulfonate (8:2 FTS)  
10:2 Fluorotelomer sulfonate (10:2 FT)  
Perfluorooctane sulfonamide (FOSA)  
N-methylperfluorooctanesulfonamide (NMeFOSA)  
N-ethylperfluorooctanesulfonamide (NEtFOSA)  
N-methylperfluorooctanesulfonamidoacetic acid (MeFOSAA)  
N-methylperfluorooctanesulfonamidoethanol (NEtFOSAA)  
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)  
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)  
Hexafluoropropylene oxide dimer acid (GenX)  
4,8-Dioxa-3H-perfluorononanoic acid (DONA)  
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (F-53 Major)  
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)

# Figures



**LEGEND:**

 APPROXIMATE SITE PROPERTY BOUNDARY

TYCO FIRE PRODUCTS LP  
MARINETTE, WISCONSIN

**SITE LOCATION**

**NOTES:**

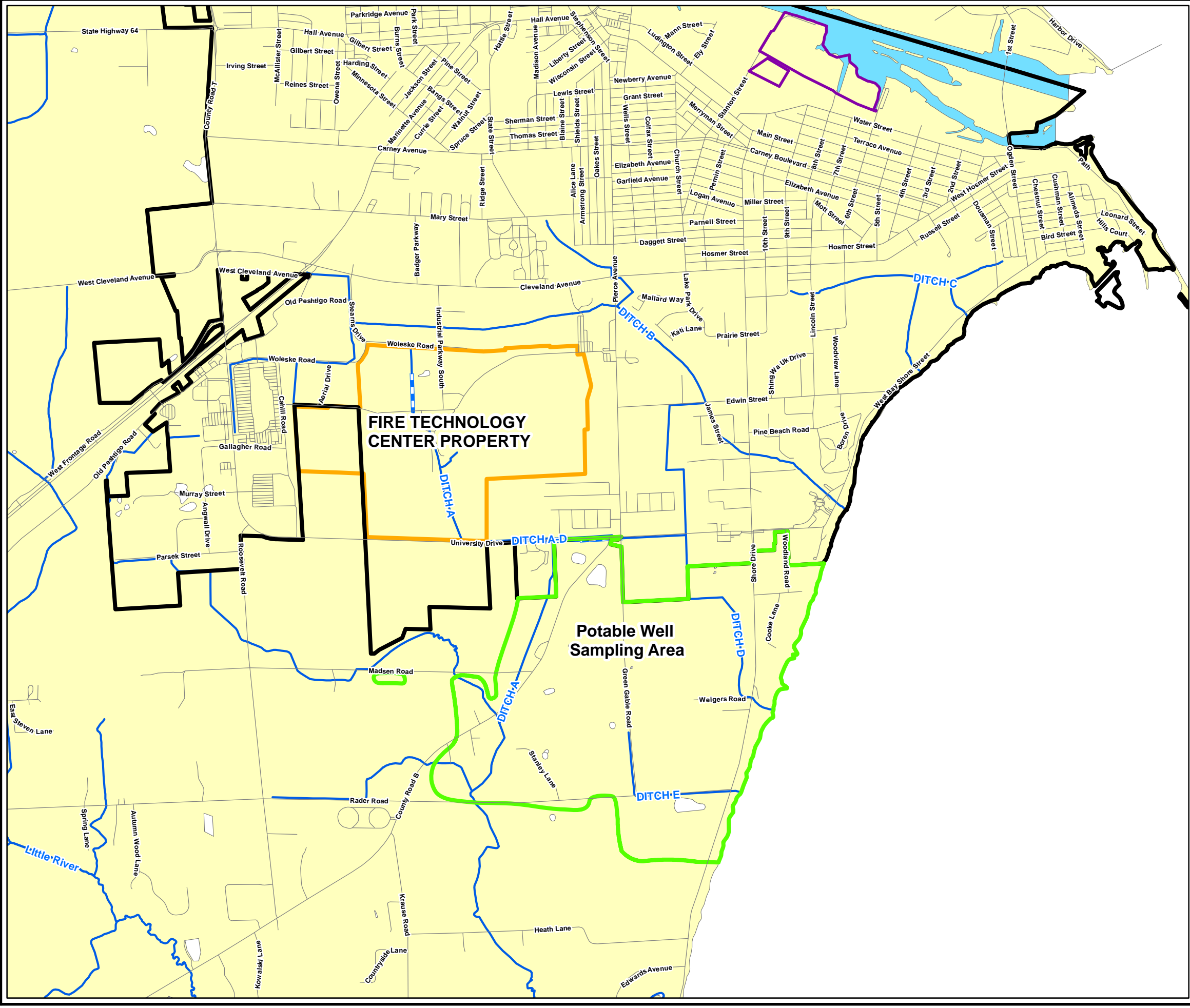
1. TOPOGRAPHIC MAP SOURCE: COPYRIGHT:© 2013 NATIONAL GEOGRAPHIC SOCIETY, I-CUBED, ACCESSED JANUARY 2022.



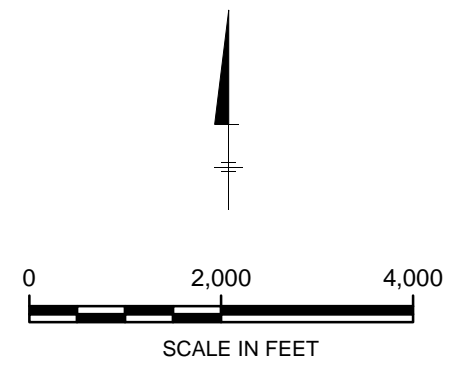
**FIGURE  
1**



T:\\_ENV\TYCO\MXD\FTC\Potable\_Well\_SamplingArea.mxd 8/8/2022 3:40:04 PM

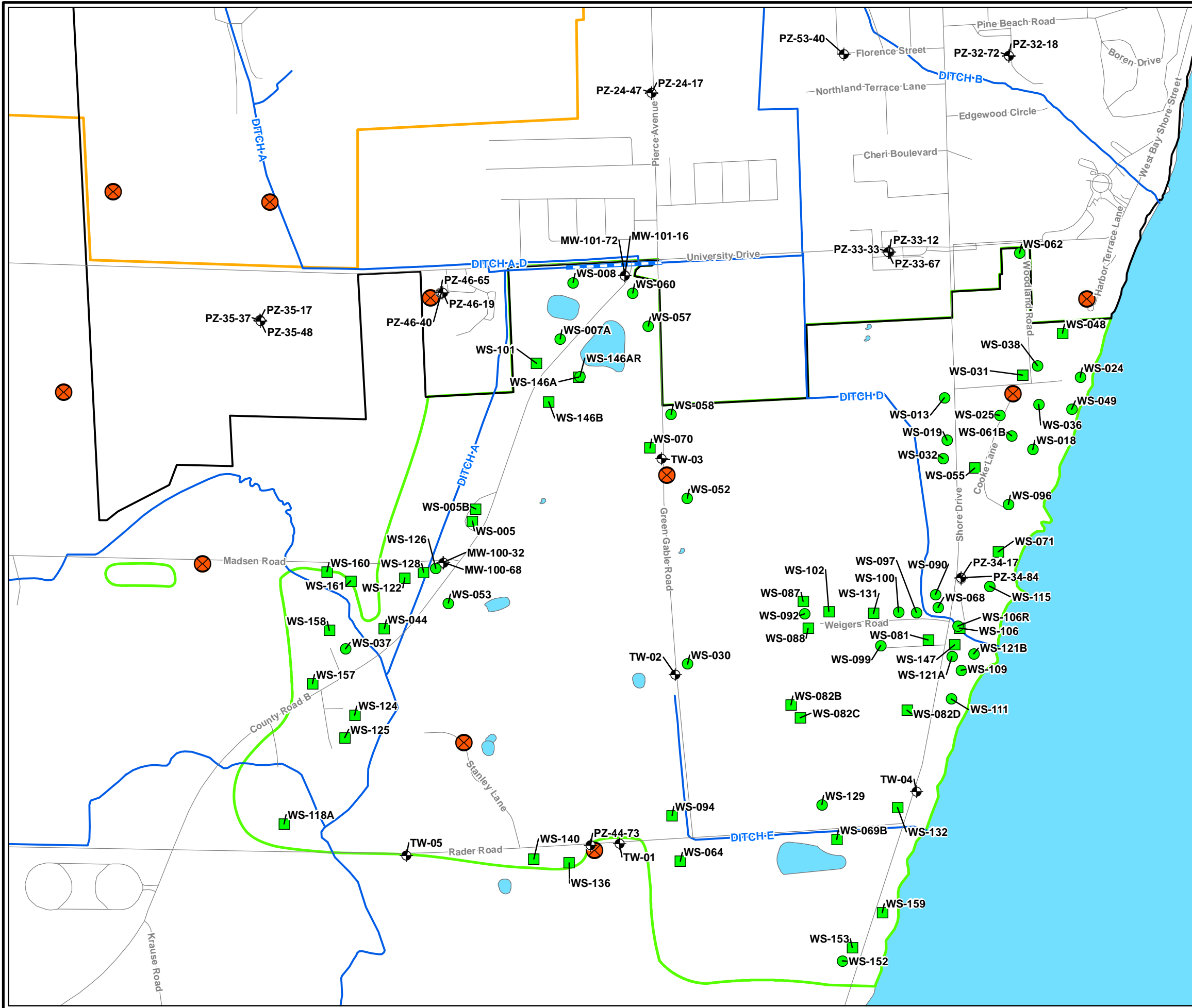


- LEGEND:**
- POTABLE WELL SAMPLING AREA
  - STANTON STREET FACILITY BOUNDARY
  - APPROXIMATE SITE PROPERTY BOUNDARY
  - APPROXIMATE MARINETTE CITY BOUNDARY
  - WATERBODY
  - DITCH OR STREAM
  - ROAD



TYCO FIRE PRODUCTS LP MARINETTE, WISCONSIN	
<b>POTABLE WELL SAMPLING AREA</b>	
	<b>FIGURE</b> <span style="font-size: 24px; font-weight: bold;">2</span>

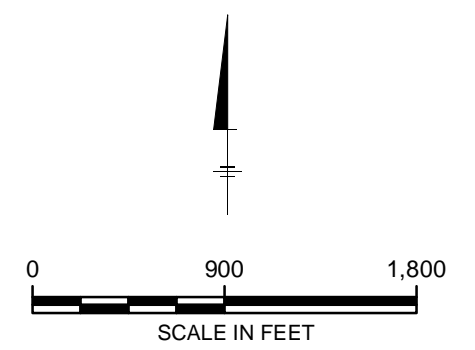
T:\ENVTYCOM\MD\FTC\Potable\_Well\Figure3\_PotableWell\_Shallow.mxd 8/8/2022 9:37:37 AM



**LEGEND:**

- POTABLE WELL SAMPLING AREA
- APPROXIMATE SITE PROPERTY BOUNDARY
- APPROXIMATE MARINETTE CITY BOUNDARY
- ROAD
- DITCH OR STREAM
- POTABLE WELL LOCATION WITH POET SYSTEM INSTALLED
- POTABLE WELL LOCATION
- ⊕ NR141 COMPLIANT MONITORING WELL
- ⊗ PLANNED NR141 COMPLIANT MONITORING WELL

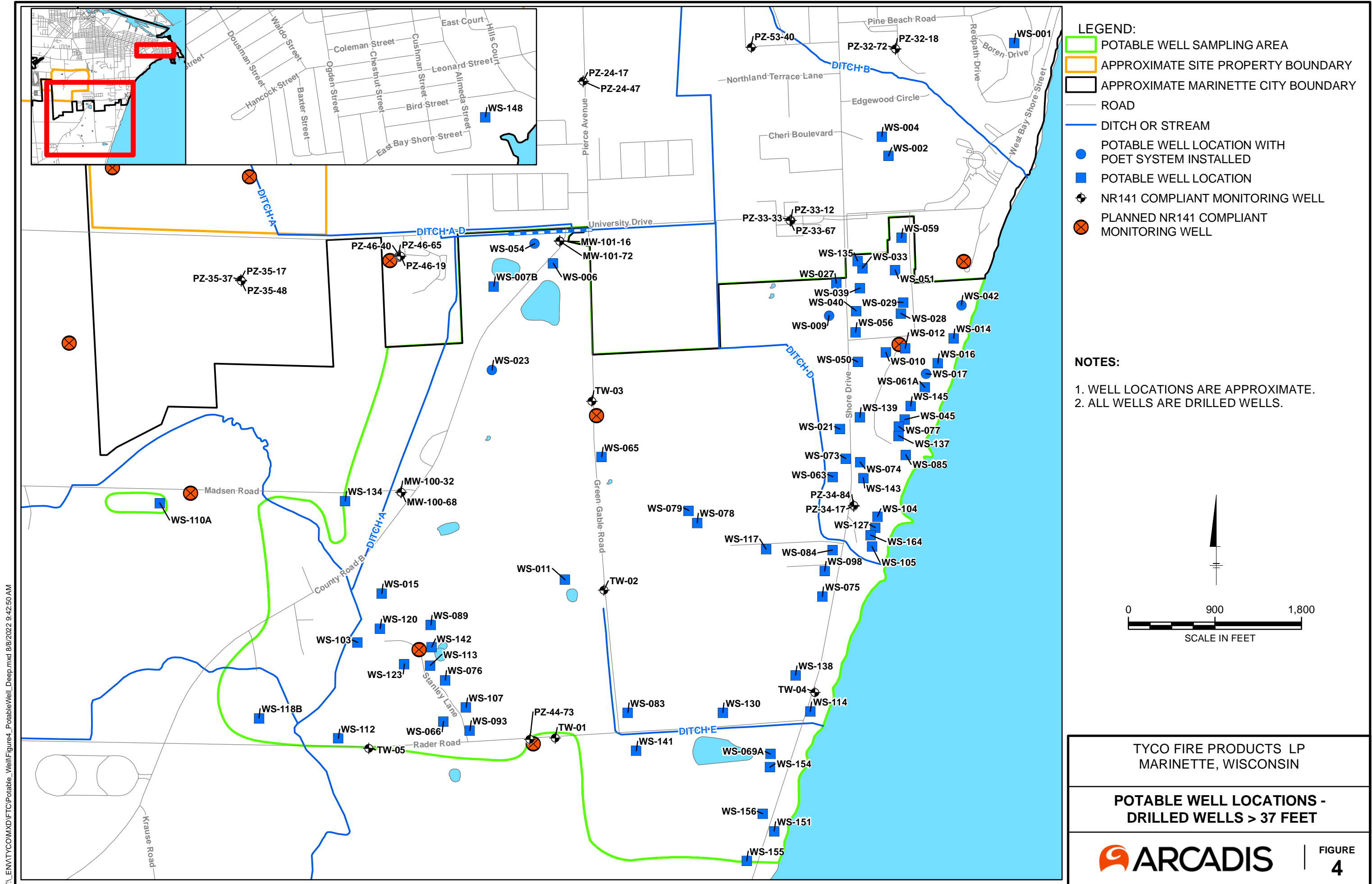
- NOTES:**
1. WELL LOCATIONS ARE APPROXIMATE.
  2. ALL WELLS ARE SAND POINTS.
  3. WS-106R IS A DRILLED WELL TO 37 FEET AND WS-146B IS A HAND DRILLED WELL TO 65 FEET.
  4. WS-106R IS A REPLACEMENT WELL FOR A SAND POINT WELL THAT WAS DRILLED TO 37 FEET.



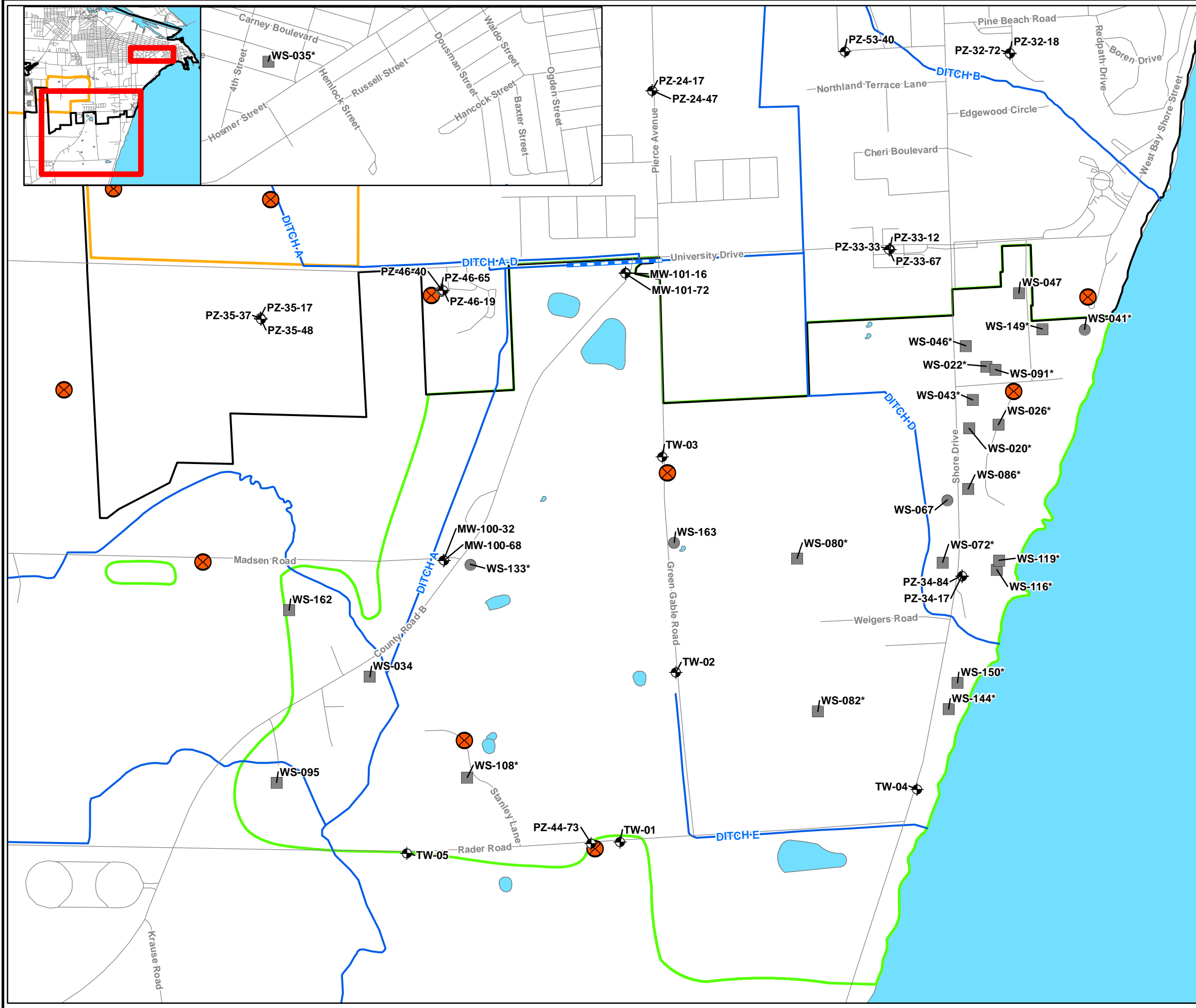
TYCO FIRE PRODUCTS LP  
MARINETTE, WISCONSIN

**POTABLE WELL LOCATIONS -  
SAND POINT WELLS < 37 FEET**

**ARCADIS** | **FIGURE 3**

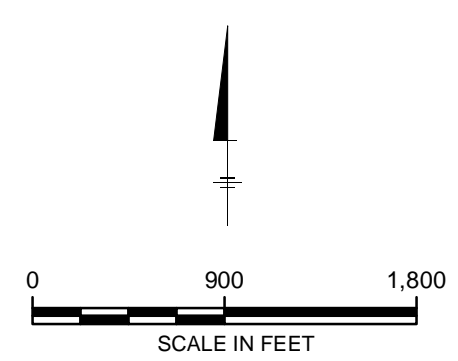






**LEGEND:**  
[Green Outline] POTABLE WELL SAMPLING AREA  
[Orange Outline] APPROXIMATE SITE PROPERTY BOUNDARY  
[Black Outline] APPROXIMATE MARINETTE CITY BOUNDARY  
[Grey Line] ROAD  
[Blue Line] DITCH OR STREAM  
[Grey Circle] POTABLE WELL LOCATION WITH POET SYSTEM INSTALLED  
[Grey Square] POTABLE WELL LOCATION  
[Circle with Cross] NR141 COMPLIANT MONITORING WELL  
[Circle with Cross and Asterisk] PLANNED NR141 COMPLIANT MONITORING WELL

**NOTES:**  
1. WELL LOCATIONS ARE APPROXIMATE.  
2. \* - INDICATES THE WELL IS DRILLED BUT THE DEPTH IS UNKNOWN.



TYCO FIRE PRODUCTS LP  
MARINETTE, WISCONSIN

**POTABLE WELL LOCATIONS - UNKNOWN WELL DEPTHS**

**ARCADIS** | **FIGURE 5**



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