Tyco Fire Products LP

REVISED LONG-TERM POTABLE WELL SAMPLING PLAN

Tyco Fire Technology Center
2700 Industrial Parkway South
Marinette, Wisconsin 54143
BRRTS# 02-38-580694

December 5, 2025

Revised Long-Term Potable Well Sampling Plan

Tyco Fire Technology Center, 2700 Industrial Parkway South, Marinette, Wisconsin 54143
BRRTS# 02-38-580694

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Version Control

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0	3/8/2018	All	Initial Release
1	4/20/2018	All	Revisions based on WDNR comment letter dated March 30, 2018
2	4/1/2020	All	Regular update as requested by WDNR
3	3/16/2021	All	Revisions based on WDNR letter dated November 16, 2020
4	10/1/2021	All	Revisions based on WDNR comment letter dated June 18, 2021
5	5/17/2022	All	Revisions based on WDNR comment letters dated December 16, 2021
6	10/3/2022	All	Revisions reflecting potential drinking water source changes within PWSA
7	4/3/2023	All	Revisions based on WDNR comment letter dated 11/18/2022
8	10/2/2023	All	Regular update as requested by WDNR
9	4/1/2024	All	Regular update as requested by WDNR
10	10/1/2024	All	Updated per the WDNR letter dated August 26, 2024 requesting a report combining this sampling plan with analytical results and updates on well status previously provided in a separate Annual Potable Well Sampling Report.
11	12/5/2025	All	Regular update as requested by the WDNR according to letter dated 10/24/2024

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Acronyms and Abbreviations

Arcadis	Arcadis U.S., Inc.
BRRTS	Bureau of Remediation and Redevelopment Tracking System
COC	chain-of-custody
FTC	Fire Technology Center
GAC	Granular Activated Carbon
HDPE	high-density polyethylene
ID	identification
JCI	Johnson Controls, Inc.
NR	Natural Resources
PFAS	per- and polyfluoroalkyl substances
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
TOC	total organic carbon
Tyco	Tyco Fire Products LP
USEPA	United States Environmental Protection Agency
WDHS	Wisconsin Department of Health Services
WDNR	Wisconsin Department of Natural Resources

Executive Summary

Arcadis U.S., Inc on behalf of Tyco Fire Products LP (Tyco) prepared this Revised Long-Term Potable Well Sampling Plan (sampling plan) for the Tyco Fire Technology Center site located at 2700 Industrial Parkway South in Marinette, Wisconsin (Site; **Figure 1**).[1] In light of the success of the private replacement deep bedrock drinking water well program (Replacement Wells; Arcadis 2025), this sampling plan updates the monitoring program for per- and polyfluoroalkyl substances (PFAS) in remaining private wells within the potable well sampling area (PWSA) (as defined herein). Specifically, Tyco is proposing additional monitoring at 10 monitoring wells using six existing monitoring wells and four new monitoring wells, confirming those wells are representative of the water quality at existing private wells in their vicinity, and discontinuing the sampling of the individual potable wells. Tyco will continue to conduct sampling of these new and existing groundwater monitoring wells in the PWSA pursuant to an approved Groundwater Monitoring Plan. If one of the new or existing monitoring wells located near a remaining existing potable well that has not been replaced with a new Replacement Well detects PFAS above certain levels (addressed in more detail herein), Tyco will work in cooperation with the property owner and the Wisconsin Department of Natural Resources (WDNR) to determine appropriate next steps for ensuring safe drinking water.

In addition to updating the approach to sampling drinking water, this sampling plan outlines the interim activities Tyco is performing to eliminate the primary potential exposure pathway (drinking water) for PFAS in the PWSA. The long-term actions performed by Tyco to eliminate the primary potential exposure pathway for PFAS are described in the 2025 Final Interim Action Report Potable Well Sampling Area Drinking Water Update (Arcadis 2025). This report also includes analytical results and updates on well status. This sampling plan includes data for samples collected between July 1, 2024 and June 30, 2025.

During this reporting period, Arcadis sent postcards to 44 well owners offering to sample their wells and received back 3 responses that allowed entry for sampling. Arcadis sampled potable wells in the PWSA following the timelines and procedures as set forth in the *Revised Long-Term Potable Well Sampling Plan* (Arcadis 2024f):

- July – September 2024 (0 wells)
- October – December 2024 (0 wells)
- January – March 2025 (1 well)
- April – June 2025 (2 wells)

The results from the sampling are consistent with previous monitoring activities. The continued reduction in the number of homeowners allowing entry for samples collection under the residential sampling program is representative of the mature nature of the program and the number of wells that have either been replaced or are in the process of being replaced by the Replacement Wells program. Tyco will continue to update Wisconsin Department of Natural Resources (WDNR) on Replacement Wells progress as previously approved.

Tyco is addressing potentially impacted drinking water in the PWSA in three ways. First, Tyco has offered free bottled water to every parcel with a potable well within the PWSA. The bottled water was offered, regardless of the results of any sampling results from the potable well.

[1] Wisconsin Department of Natural Resources (WDNR) has incorrectly identified Johnson Controls, Inc. (JCI) as a “responsible party” for this property under the Wisconsin Spills Law. The WDNR is in error. JCI does not own or operate the property at issue. In addition, JCI is not the corporate parent of Tyco.

Second, Tyco offered a Point-of-Entry Treatment (POET) system for every residential drinking water well within the PWSA that had confirmed detections of PFAS. This report details the POET Monitoring Program that Tyco will continue to provide for each installed POET, until the Replacement Well is installed for that parcel. After the Replacement Well is installed for a parcel and test results confirm that the drinking water meets drinking water limits that apply to municipal drinking water in Marinette, the property owners will be allowed to keep the POET and maintain it at their own cost and expense, or Tyco will pay to remove the POET. Some households receive both bottled water and a POET.

Third, Replacement wells are being installed across the PWSA for those with potable wells. Given the success of the Replacement Wells program, only 24 existing private wells remain associated with this sampling plan. In this revision of the sampling plan, Tyco proposes to transition from monitoring potable wells to monitoring water quality at new or existing monitoring wells. This transition would occur after confirming paired monitoring wells are representative of private drinking water wells. At that time, no additional private drinking water well sampling will occur unless detections in the monitoring well suggest a potential change in conditions at the drinking water well.[2] Details of the Replacement Wells program are included in the 2025 Final Interim Action Report Potable Well Sampling Area Drinking Water Update (Arcadis 2025).

For properties in the PWSA that do not have potable wells, Tyco has also agreed to construct a Replacement Well when the property owner determines to develop the property.

[2] Tyco believes that continuing sampling at the frequency previously used will result in less disruption and confusion to the well owners and citizens of Marinette County. However, by continuing this activity, Tyco is not acknowledging the authority of the WDNR to require an investigation or remediation of PFAS, or to require the provision of alternate water supplies. Tyco is also not acknowledging or confirming the validity, enforceability, accuracy, or scientific basis, for the use of any proposed or final enforcement standards for PFAS enforced by Wisconsin Department of Health Services, WDNR, or other state or federal agency.

1 Introduction

On behalf of Tyco, Arcadis U.S., Inc. (Arcadis) prepared this *Revised Long-Term Potable Well Sampling Plan* (sampling plan) for the FTC (Site; **Figure 1**). Tyco and Arcadis are conducting site investigation and monitoring activities under the oversight of the WDNR. As requested by WDNR, this document provides an update to the Revised Long-Term Potable Well Sampling Plan (Arcadis 2024f). This sampling plan and future versions, to be submitted every 12 months, will be applicable as described herein while existing potable wells (**Table 1**) in the PWSA are in operation. This sampling plan does not apply to any Replacement Wells because they are subject to the provisions of the Groundwater Monitoring Program. The current status of the Replacement Well program is described in the 2025 Final Interim Action Report Potable Well Sampling Area Drinking Water Update (Arcadis, 2025). This sampling plan includes data for samples collected between July 1, 2024 and June 30, 2025. Tyco will continue to operate under the previously approved sampling plan (Arcadis 2024f) until this plan is approved by WDNR.

In the PWSA, Tyco (a) provides bottled water, (b) offered a Point-of-Entry Treatment (POET) system for every residential drinking water well within the PWSA that had confirmed detections of per- and polyfluoroalkyl substances (PFAS) that includes a POET Monitoring Program (**Table 2**), (c) conducts a potable well sampling program that was initiated in December 2017 and continues quarterly, and (d) is installing Replacement Wells.

Tyco has offered free bottled water to every parcel with a potable well within the PWSA regardless of any sampling results from the potable well. Where homeowners have elected to have a Replacement Well installed, bottled water is discontinued following installation of the associated treatment system and analytical results demonstrating the water is safe to drink.

Tyco previously offered a POET system for every residential drinking water well within the PWSA that had confirmed detections of PFAS. The interim POET system solution is offered to properties within the PWSA with confirmed PFAS detections above Wisconsin Department of Health Services (WDHS) current recommended groundwater standards where a Replacement Well is not feasible. This report details the POET Monitoring Program that Tyco will provide for each remaining installed POET, until the Replacement Well is installed for that parcel. After the Replacement Well is installed for a parcel and test results confirm that the drinking water meets drinking water limits that apply to municipal drinking water in Marinette, the property owners have the option to either keep the POET and maintain it at their own cost and expense, or Tyco pays to remove the POET. To date, 38 POETS have been removed and no property owner has elected to maintain the POET once a Replacement Well has been installed.

As of September 30, 2025, there were only 27 properties remaining that still have their existing well in place and have not yet accepted a Replacement Well (Arcadis 2025). As of December 1, 2025, there are only 23 properties remaining that still have their existing well in place and have not yet accepted a Replacement Well. Nine of those properties have a POET system currently operating. All of those properties have access to bottled water service. In light of the success of the Replacement Well program (Arcadis 2025) and the multiple years of implementing this Potable Well Sampling program, this revision of the sampling plan proposes to transition the monitoring of per- and polyfluoroalkyl substances (PFAS) for the remaining existing private wells in the PWSA to a dedicated groundwater monitoring well network. The location and depths of the remaining 24 wells were assessed with respect to the existing monitoring network (discussed herein). As a result, Tyco is proposing additional monitoring at 10 monitoring wells using six existing monitoring wells and four new monitoring wells. The existing and proposed wells are or will be screened within the aquifer at intervals that are representative of nearby potable

wells. The intent of the sampling is to confirm the monitoring wells are representative of the water quality at adjacent remaining existing private wells, allowing for sampling of the monitoring wells in place of direct sampling from individual potable wells. Following demonstration of representativeness, Tyco will then continue to conduct long-term monitoring of these new and existing groundwater monitoring wells in the PWSA in accordance with a future amendment to the approved Interim Long-term Groundwater Monitoring Plan.

2 Potable Well Sampling Plan Summary

Tyco initiated the potable well sampling program in December 2017 (WDNR Bureau of Remediation and Redevelopment Tracking System [BRRTS] #02-38-580694). The objective of the sampling program is to determine whether existing potable wells in the PWSA are at risk of containing levels of PFAS above applicable groundwater criteria (if any), and if there are no applicable groundwater criteria, then the standards that apply to the public drinking water supply in Marinette, WI. As discussed above, the potable well sampling program will monitor for PFAS in newly installed and existing monitoring wells that are representative of the remaining existing private wells within the PWSA (**Section 2.1** and **Figure 6**) that have not been replaced with a Replacement Well.

After this work plan is approved, Tyco proposes to:

- Continue to offer a Replacement Well for any homeowner within the PWSA
- Install four new monitoring wells throughout the PWSA specifically designed to be representative of nearby remaining existing private wells that have not yet accepted a Replacement Well.
- Monitor the new wells and identified existing wells (**Section 2.1**) quarterly for one year to confirm the PFAS analytical results are similar to the results for nearby wells.
- Offer to collect one additional sample from each remaining existing private well during the same one year monitoring period to enable comparison of those analytical results to the nearest newly installed monitoring well.
- Offer the option for those remaining existing private wells that maintain a POET and also have bottled water to continue bottled water at their own cost and expense. If this is declined, bottled water service will be removed as long as the POET remains in place.
- At this time, continue to maintain interim actions (bottled water service or POET) even if the remaining existing private well(s) and associated monitoring point have concentrations below all applicable criteria.
- Have the current water treatment provider conduct POET maintenance using the current maintenance schedule which was developed from over at least 4 years of monitoring. The water treatment provider will work directly with the homeowner to schedule ongoing maintenance events. Tyco will continue to pay for the ongoing maintenance of the POETs.
- Sample the identified monitoring well network (**Section 2.1**) rather than the remaining existing private wells moving forward. As a result, no additional remaining existing private well sampling will occur unless detections in the monitoring well suggest a potential change in conditions at the remaining existing private wells. At that time, Tyco will work with the homeowner and WDNR to sample water from their remaining existing private well to confirm it remains protective.
- Evaluate the monitoring well network dedicated to remaining existing private water wells on at least an annual basis to remove monitoring wells from the program, as appropriate, if homeowners elect to have a Replacement Well installed.

2.1 Monitoring Well Associations

An evaluation of the existing monitoring well network was conducted with the following objectives (1) determine where existing monitoring wells are in place that are representative of the depth interval of the aquifer where there are remaining existing private wells, (2) evaluate if the concentrations of the monitoring wells are representative of

the data collected from the remaining existing private wells, (3) determine where monitoring wells should be placed where gaps were identified.

The location and chemistry of each remaining existing private well without a Replacement Well agreement were compared to the most proximate monitoring wells. Initial analyses included depth of screened intervals of available monitoring wells and total depth of remaining existing private wells. This effort resulted in the sub-division of the PWSA into seven geographical groups of private wells and representative monitoring wells. This established a primary phase of comparison based on well depth, construction, and proximity. The six monitoring wells selected are proposed to be supplemented with four new monitoring wells (10 wells total) in order to achieve similar depth, construction, and proximity characteristics (**Table 5**).

To establish whether these 10 wells will serve as long-term monitoring points for the remaining private drinking water wells within the PWSA (**Table 5**), the analytical results of the six existing monitoring wells were compared with the proposed paired private wells. Results indicate a general correlation in PFAS composition. Additional sampling and comparison are proposed to confirm the correlation between the respective locations and will be included in the October 1, 2026 Revised Long-Term Potable Well Sampling Plan after additional sampling is completed at the monitoring wells and remaining existing private wells.

Currently, seven remaining existing private wells have analytical results above WDHS-recommended criteria (**Table 5**). Of those seven, six have POET systems. One remaining existing private well with analytical results above WDHS-recommended criteria repeatedly rejected a POET system (Section 2.4) but does receive bottled water service.

As described above, remaining existing private wells will be offered to be sampled one additional time, and quarterly monitoring of the ten monitoring wells will be conducted following approval of this plan. The identified monitoring well network will be sampled rather than the remaining existing private wells moving forward. Similar to the Deep Bedrock Monitoring program, if data from monitoring points for the remaining private drinking water wells show a significant increase, Tyco will reiterate its offer to install a deep well to those locations (the offer remains open) and also offer to sample the potable wells within that area to ensure the current interim actions remain protective.

2.2 Bottled Water

Bottled water was previously offered to private well users within the PWSA regardless of sampling participation or results. Bottled water is managed per the updated Comprehensive Alternative Water Management Plan submitted to WDNR in April 2024. Bottled water is discontinued at the request of the property owner/user, after property owners/users have a Replacement Well installed and receive the results from the treated sample demonstrating their water is safe to drink, or when a property becomes vacant. 139 Replacement Wells have been installed out of approximately 169 anticipated Replacement Wells. A total of 83 customers have been removed from bottled water service following installation of a Replacement Well, 73 customers remain active as of September 30, 2025 and 13 customers declined or were unresponsive to the previous bottled water offer. Of the 73 active accounts, 38 are expected to be removed during this next reporting period following installation and confirmation of water quality in a Replacement Well. All properties with PFAS detections above WDHS-recommended levels within the PWSA have access to bottled water service.

The remaining bottled water service accounts will be discontinued following completion of a Replacement Well connection, water testing, and notification that their drinking water meets regulatory criteria and is safe to drink, or if they have a POET installed on their existing private well.

2.3 Potable Well Sampling Program

A list of wells within the Potable Well Sampling Program is presented in **Table 1**.

The spring 2025 quarterly potable well sampling event extended through June 30, 2025. During the previous events, Arcadis cumulatively sampled a total of 173 wells described by property owners as drinking water wells located generally to the southeast of the Site where residents rely on private wells for drinking water. From July 1, 2024 through June 30, 2025, the owners of as many as 44 different remaining existing private wells were sent postcards on a quarterly basis to alert them that their well was eligible for sampling. Of the 44 wells, only three owners requested sampling over the course of the year (**Section 5**). Moving to a sampling program that does not rely on homeowner access and availability will provide more consistent and meaningful data relative to drinking water quality in the area.

There are currently 24 remaining existing private wells: 15 in the potable well sampling program (**Table 1**) and nine are part of the POET Monitoring Program (**Table 2**; **Section 2.4**).

2.4 POET Monitoring Program

POET systems were previously offered to every parcel owner in the PWSA where the existing private well results confirmed PFAS detections. Forty-seven POET systems were previously installed to treat existing private wells under this program. Of these, there are nine POET systems remaining in operation. A list of remaining potable wells with POET systems and associated status is included in **Table 2**. As discussed above, Arcadis will cease collecting samples from POET systems and will instead rely on the current POET maintenance program established through years of data collection for each system.

It is not anticipated that any new POET systems will be installed that were not previously offered. In the event of a confirmed detection of PFAS above WDHS recommended groundwater standards at parcels located within the PWSA but outside the City of Marinette, a Replacement Well will be re-offered. If the installation of a Replacement Well is not feasible or if the schedule for installing a Replacement Well is greater than one year, a POET may be temporarily installed. If the homeowner refuses a Replacement Well, Tyco will continue to provide interim bottled water service or a POET system.

Under City of Marinette ordinances, private potable wells are not allowed and owners are required to connect to municipal water. One existing private well (WS-001) within the City of Marinette was connected to municipal water during the reporting period. There is one potable well (WS-035) where a connection to municipal water is underway with the City of Marinette and is scheduled to be completed during the 2026 construction season. The homeowner was previously offered a POET system, but did not accept due to the space constraints at the residence that would make it impractical to install a system. This location receives bottled water service.

There is one property within the PWSA that had confirmed analytical results above WDHS-recommended criteria but declined Tyco’s POET system offer and currently does not have a recorded agreement for a Replacement Well.

The property owner of WS-048 was initially offered a POET system in 2018. Tyco contacted the owner by phone in August of 2018 to follow up on the POET system offer. At that time, the owner declined the POET system citing a lack of space in the property and the fact that the property was already on bottled water service. A POET system was offered in writing concurrent with the delivery of analytical results nine times from 2018 to 2023. Tyco reviewed sampling results with the homeowner January 2024 and again offered a Replacement Well or POET system and the homeowner again declined. In March 2025, Tyco offered to have their lawyers engage in a discussion with the homeowner's lawyers specifically related to a Replacement Well and the homeowner again declined the Replacement Well. In September 2025, Tyco again called the homeowner and offered to send the POET system supplier into the home to find a way to make it fit in whatever space was available. The homeowner again stated there was no space for a POET system and declined, however at this time the homeowner did request the deep Replacement Well offer be sent to their lawyer and they would potentially consider a deep well for this specific property. The property remains on bottled water service.

As Replacement Wells are installed, the POETs are no longer necessary. At the time that laboratory data are supplied to the homeowner demonstrating that the new well water is safe to drink, Tyco offers the parcel owners to continue to own and maintain the POETs at their expense, or elect to have Tyco remove the POET at Tyco's expense.

Routine maintenance is conducted on each POET system. Sediment filters are typically replaced every 3 months; UV lights and the quartz sleeves are replaced once every year; and granular activated carbon (GAC) tanks for existing systems will be replaced based on the current POET maintenance program established through years of data collection for each system (**Section 3.2.1**). If new POETS are installed, GAC will be replaced when initial breakthrough is observed or as appropriate based on a conservative analysis of previous results for the specific POET system over the course of at least 12 months (**Section 3.2.2**).

3 Long-Term Sampling Plan for Remaining Existing Wells

3.1 Remaining Existing Wells

With homeowner approval, each remaining existing private well will be sampled one additional time to confirm water quality similar to the paired monitoring well. After water quality from the monitoring wells is confirmed to be representative of the paired remaining existing private wells, no additional sampling will be conducted from remaining existing private wells until the paired monitoring well demonstrates three consecutive samples below WDHS-recommended criteria at which point a confirmation sample may be collected to confirm remaining existing private wells are also below WDHS-recommended criteria. Results from potable wells are used to inform residents of their specific groundwater conditions relative to PFAS but are not a source of remedial decision-making data. Instead, the borings, piezometers, and wells installed for monitoring purposes will be used to monitor groundwater quality over time.

Tyco will submit an updated version of the Revised Long-Term Potable Well Sampling Plan to the WDNR by October 1, 2026, including a summary of the results from this sampling plan and any proposed changes based on those data.

3.2 POET Systems

3.2.1 Proposed POET Maintenance Schedule for Existing POET Systems

POET systems installed for less than one year will be sampled on a quarterly basis to determine POET system efficiency. After a minimum of one year of monitoring, POET systems are transitioned to the maintenance program described below. The POET system maintenance program uses sampling data from each POET over the course of at least one year to determine a conservative GAC vessel change out schedule. Bottled water service will be terminated for POET users.

The conservative sampling schedule that was established for the POET program when systems were first installed starting in early 2018 resulted in a large amount of data available to help predict when POET systems would show breakthrough. In addition to analyzing inlet, mid-carbon and outlet samples for PFAS, TOC was collected from the well prior to POET system installation and flow meter readings were collected during each sampling event to determine weekly or monthly water usage. This information as well as the inlet concentrations and regular sampling to identify when initial breakthrough occurred resulted in the ability to reduce the sampling frequency for well-established POET systems and move them to a maintenance-only program.

The GAC change schedule was established by looking at all data relevant to each system. The GAC will be changed in every system at least once per year, even if breakthrough was observed two years or more after installation. Systems where breakthrough was observed earlier than 12 months will be changed out more frequently. Section 3.2.1 describes the various scenarios that are relevant to determining the GAC changeout schedule. The observed breakthrough and GAC change frequency for each POET is included in **Table 2**. The

GAC changeout schedule is based on when initial breakthrough was observed, not when detections of PFAS exceeded the concentrations set forth on **Table 3**. This conservative approach to establishing the GAC changeout schedule eliminates the potential drinking water exposure pathway. Once a conservative maintenance program is established, POETs will be operated on a maintenance-only (no sampling) basis.

GAC Change Frequency	Rationale	Remaining POET Systems (as of October 1, 2025, listed by POET ID #)
Annual	POET systems had non-detect concentrations at the mid-carbon and post-carbon sampling locations for more than a year.	20, 26, 27, 29, 40, 42, 45, 46
9 months	POET systems that have shown PFAS breakthrough between 9 months and 1 year.	28

GAC Change Frequency	Rationale	POET Systems Removed (as of December 5, 2025, listed by POET ID #)
Discontinued Service (Removed Systems)	POET systems that have been removed from service due to a Replacement Well installation. POET system removed by request of the owner (indicated by an asterisk). POET system removed by homeowner due to house remodeling prior to Replacement Well installation (as indicated by a plus).	1, 2, 3, 4, 5, 6, 7, 8, 9*, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 25, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 41+, 43, 44, 47

*POET removed at request of owner
+POET removed by homeowner due to house remodeling prior to Replacement Well installation

POET systems that have not operated for at least a year will be monitored quarterly for at least 12 months to determine the future GAC maintenance schedule, at which point sampling will be discontinued. This does not apply to any current systems as all systems in place have operated for a minimum of 12 months.

Sediment filters will continue to be replaced approximately every 3 months and ultraviolet lamps and quartz sleeves will continue to be replaced once every year.

3.2.2 Proposed POET Maintenance Schedule for New POET Systems

As Tyco is installing Replacement Wells in the PWSA, it is not anticipated that new POET systems will be installed. However, if they are, they will be considered a temporary solution.

For New POET systems, performance monitoring samples will be collected at the inlet, mid-carbon and outlet locations according to the following schedule:

- Initial Sampling – Upon system installation and start-up
- Month 3 (Week 12) – After 3 months or 12 weeks of system operation
- Month 6 – After 6 months of system operation
- Month 9 – After 9 months of system operation
- Month 12 – After 12 months of system operation.

New POET systems will be moved to a maintenance schedule following 12 months of monitoring and data evaluation, per **Section 3.2.1**.

4 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.

4.1 Prior to Sample Collection

Arcadis staff will coordinate a sample date and time with each well's contact person. Upon arrival, Arcadis will provide introductions and let the resident/property owner know the purpose is to collect a potable well sample for PFAS analysis in accordance with previous correspondence provided to them regarding the sampling. Arcadis will request information from the property owner regarding the water system at each property. Information that will be recorded includes presence of water softeners, sediment traps, filters, etc., and the location of these items.

Additional activities to be performed and procedures to be followed by the sampling team prior to potable well sample collection include:

- Put on a new set of nitrile gloves immediately prior to sampling.
- Do not use gloved hands to subsequently handle papers, pens, clothes, etc., before collecting samples.
- Use the high-density polyethylene (HDPE) bottles that are supplied by the laboratory for each sample location.
- Sample bottle caps must remain on the bottle until immediately prior to sample collection, and the bottle must be sealed immediately after sample collection.

Additional COVID-related precautions may be implemented as appropriate based on Federal, State, or County guidance to protect homeowners and the sampling team. Those precautions may include but are not limited to:

- Sampling team personnel will practice established social distancing protocols when interacting with homeowners.
- Sampling team personnel will wear individual protective masks.
- Sampling team personnel will request verbal sampling permission from each of the homeowners and sign the homeowner acceptance, on behalf of the homeowner, of such verbal agreement on the electronic tablet.
- Sampling locations will be prioritized to outdoor spigots, instead of indoor locations, when possible, weather permitting.

4.2 During Sample Collection

Potable water outfalls and taps are likely to vary. If possible, the team will avoid sampling from any taps fitted with Teflon tape or other potential PFAS-containing materials. Stainless steel and polyvinyl chloride materials are acceptable. The sampling team will collect unfiltered samples from a tap or port, as follows:

- Initiate flow from the water source and allow the system to flush for at least three minutes.
- Collect the sample into the HDPE bottle until the sample bottle is full (leaving slight headspace in the bottle is acceptable).

- Tightly screw on the polypropylene or HDPE cap.

4.3 After Sample Collection

Upon collection, the sample bottles will be placed in a sealed Ziploc® or similar bag. Sample collection information will be recorded including the sample identification (ID) and time of sampling on the sample bottle label, in the field notes, and on the chain-of-custody (COC) form. The COC form will be marked for analysis with a standard turnaround time (approximately two weeks). Samples will be placed in coolers, with enough ice to keep the sample temperature between 0 and 4ºC until delivered to the laboratory. Only “wet” ice will be used, with no use of “blue ice” or similar cold storage packets. PFAS sample coolers will be shipped via Federal Express Priority Overnight delivery to:

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

Samples were analyzed for the 36 PFAS compounds reportable using Method 537 Modified through December 31, 2024. Beginning January 1, 2025, samples were analyzed for the standard 40 compounds list using EPA Method 1633 and as of February 1, 2025 using EPA Method 1633A per WDNR regulations.

All disposable sampling materials will be treated as single use and disposed appropriately after sampling at each location. Samples from each residence will be kept in their own dedicated cooler with the appropriate quality assurance samples.

4.4 Quality Assurance/Quality Control

Avoiding cross-contamination from PFAS-containing materials during this sampling will be of utmost importance given the very low detection limits for the analyses that will be conducted for these compounds. As such, materials with the potential to contain PFAS will not be used during the sampling (including polytetrafluoroethylene [PTFE] pipe tape, pipe thread pastes that contain PTFE, PTFE sample tubing, food wrappers, water resistant/proof clothing, waterproof field books, etc.)

Sample information, including sample ID and date/time collected, will be recorded on the provided bottle labels and attached to the sample bottles immediately after sealing the bottles. This information also will be recorded on the 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 will be provided to the laboratory whenever a sample cooler is delivered to the laboratory. A copy of each COC form will be kept with the field notes and sample logs.

After receipt from the laboratory, Arcadis will conduct a preliminary data quality review (Level 2 data validation). The sample results will be communicated to well owners/users after completion of the preliminary data quality review, as outlined in the “Project Communication” section below. After completion of the preliminary data quality review, Arcadis will conduct a more comprehensive validation of the data (Level 4 data validation). The timeframe for the Level 4 validation may vary based on the amount of time required for the laboratory to send additional Quality Assurance/Quality Control information to Arcadis, and the number of samples under review. The anticipated timeframe for completion of Level 4 validation is approximately four weeks after receipt of the complete Level 4 data package from the laboratory. If any changes to the reported sampling results become

necessary after completion of the Level 4 validation, the well owners/users and WDNR will be notified of those changes.

Data will be reviewed in accordance with United States Environmental Protection Agency (USEPA) National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (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).

5 Potable Well Results

This section summarizes the remaining existing private well and POET system influent and effluent results. The results from the most recent sampling events, July 1, 2024 through June 30, 2025, are included in **Table 4**. Residents and property owners were sent postcards on a quarterly basis to alert them that their well was eligible for sampling. A total of three owners of the remaining existing private wells without a POET system requested sampling over the course of the year (Exhibit 1). POET systems were monitored and maintained throughout the reporting period (Exhibit 2) consistent with the approved POET Monitoring Program (Arcadis 2024f). Moving to a sampling program that does not rely on homeowner access and availability will provide more consistent and meaningful data relative to drinking water quality in the area. The decrease in the number of wells eligible for sampling on a quarterly basis is predominantly a result of Replacement Well installations.

Exhibit 1. Number of Potable Wells Sampled Between July 2024 and June 2025

	Summer 2024 (July-September)	Fall 2024 (October-December)	Winter 2025 (January-March)	Spring 2025 (April-June)
Number of Potable Wells Sampled	0	0	1	2
Number of Potable Wells Eligible for Sampling	**44**	**40**	**38**	**27**

Exhibit 2. Potable Wells Sampled During Reporting Period

Potable Well Program	POET Programs	
	Monitoring	**Maintenance**
WS-036, WS-084, WS-115	WS-096R, POET-6	WS-017, POET-40; WS-018, POET-29; WS-025, POET-28; WS-057, POET-34; WS-060, POET-47; WS-061B, POET-27

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 43 PFAS compounds due to updates to laboratory analytical methods.

5.1 Evaluation of Potable Well Data

A total of 173 different wells identified by the property owner as providing drinking water within the PWSA were sampled during quarterly sampling events from December 2017 to June 30, 2025. Five of these wells were determined to not be potable wells and sampling was discontinued (WS-005B, WS-082B,C,D, WS-146B). One well was reported by the property owner to be abandoned (WS-148) and two additional wells are associated with the former Bay Area Medical Center and have been abandoned (WS-002, WS-004); therefore, sampling was discontinued, resulting in a total of 165 remaining existing private wells that had been eligible for sampling under this plan. As previously stated, every inhabitable structure within the PWSA has access to free, safe drinking water via a Replacement Well, 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 historical data since December 2017 indicates the majority of wells with PFAS 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. Many of these wells were abandoned after installation of Replacement Wells. Low concentrations of perfluorooctane sulfonamide (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 **Figures 4A, 4B and 4C,** and wells of unknown depth are depicted on **Figure 5**.

All the residences with potable wells have access to safe drinking water via POET systems, a replacement well, and/or bottled water.

6 Project Communication

Results letters will be provided to the applicable well owners/users and WDNR within 10 business days of Arcadis receiving results from the laboratory. If the PFAS concentrations from a well are above the concentrations set forth on **Table 3** for the first time, a phone call will be placed to the well owner/user within two days of completing the preliminary data quality review for the laboratory results to inform the owner or tenant of their results and confirm their bottled water status or offer bottled water as appropriate. If the PFAS concentrations from the effluent of a POET system are above the concentrations set forth on **Table 3** following the routine maintenance schedule, a phone call will be placed to the well owner/user within two days of completing the preliminary data quality review for the laboratory results to inform the owner or tenant of their results and schedule a GAC change as appropriate and/or update their GAC changeout frequency.

Tyco will provide WDNR copies of the letters provided to well owners/users within 10 business days of Arcadis receiving results from the laboratory. Validated results will be included in regular database submissions.

Tyco will submit an updated version of the Revised Long-Term Potable Well Sampling Plan to the WDNR by October 1, 2026, including a summary of the results from the potable well and POET programs for the previous year.

7 Conclusions and Recommendations

Tyco's private replacement deep bedrock drinking water well program has significantly reduced the number of private wells covered under this plan, from the original 173 wells sampled to 24, with nine of these served by a POET system. Tyco will continue offering Replacement Wells to the remaining properties, and in the interim, will continue to provide short-term drinking water solutions such as bottled water service and POET systems in accordance with the *Revised Comprehensive Alternative Water Management Plan* (Arcadis 2024b).

Given the success of the Replacement well program and the maturity of the potable well sampling program, Tyco recommends discontinuing sampling for individual remaining potable wells and POET systems that do not have a Replacement Well installed. Instead, groundwater will be monitored through a network of existing and newly installed monitoring wells that are representative of the water quality at the remaining private wells. These monitoring wells will be sampled on a quarterly basis for one year, then will continue to be regularly sampled as part of the Long-Term Monitoring program.

An updated version of the Revised Long-Term Potable Well Sampling Plan will be submitted to the WDNR by October 1, 2026. Tyco has effectively eliminated the primary potential exposure pathway for PFAS from historic operations and remains committed to ongoing sampling, community engagement, and working with the WDNR and remaining affected property owners to install a long-term permanent drinking water solution.

8 References

Arcadis 2018a. Response to Comments on the March 2018 Long-Term Potable Well Sampling Plan. Tyco Fire Technology Center, Marinette, WI. BRRTS Activity #: 02-38-580694. April 20, 2018.

Arcadis 2018b. Revised Long-Term Potable Well Sampling Plan. Tyco Fire Technology Center, 2700 Industrial Parkway, Marinette, Wisconsin 54143. BRRTS# 02-38-580694. Revision 1. April 20, 2018.

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Arcadis 2020b. Revised Long-Term Potable Well Sampling Plan. Tyco Fire Technology Center, 2700 Industrial Parkway, Marinette, Wisconsin 54143. BRRTS# 02-38-580694. Revision 2. April 1, 2020

Arcadis 2020c. Potable Well Sampling Program Summary Report. Tyco Fire Technology Center, 2700 Industrial Parkway South, Marinette, Wisconsin 54143. BRRTS# 02-38-580694. June 1, 2020.

Arcadis 2021a. Response to Wisconsin Department of Natural Resources Revised Long-Term Potable Well Sampling Plan. JCI/TYCO FTC (PFAS), 2700 Industrial Parkway, Marinette, Wisconsin 54143. BRRTS# 02-38-580694. January 12, 2021.

Arcadis 2021b. Revised Long-Term Potable Well Sampling Plan. Tyco Fire Technology Center, 2700 Industrial Parkway South, Marinette, Wisconsin 54143. BRRTS# 02-38-580694. Revision 3. March 16, 2021

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Arcadis 2021f. Updates to Point of Entry Treatment System Sampling. Tyco FTC PFAS, 2700 Industrial Parkway South, Marinette, WI. BRRTS# 02-38-580694. November 22, 2021.

Arcadis 2022a. Revised Long-Term Potable Well Sampling Plan. Tyco Fire Technology Center, 2700 Industrial Parkway South, Marinette, Wisconsin 54143. BRRTS# 02-38-580694. Revision 5. May 19, 2022.

Arcadis 2022b. Potable Well Sampling Program Annual Summary Report – FTC Sampling Area. Tyco Fire Technology Center, 2700 Industrial Parkway, Marinette, WI 54143. BRRTS# 02-38-580694. August 8, 2022.

Arcadis 2022c. Deep Aquifer Bedrock Well Design and Long Term Monitoring Work Plan. Tyco Fire Technology Center, 2700 Industrial Parkway South, Marinette, WI 54143. BRRTS# 02-38-580694. September 27, 2022.

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Arcadis 2022f. Response to Potable Well Sampling Program Annual Summary Report and Revised Long-Term Potable Well Sampling Plan. Tyco FTC PFAS, 2700 Industrial Parkway South, Marinette, WI. BRRTS# 02-38-580694. October 18, 2022.

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Tables

Table 1
Potable Well Program Status
Revised Long-Term Potable Well Sampling Plan
Marinette, Wisconsin

Well ID	# of Quarterly Samples Collected[3]	Category	Sampling Frequency	Comments
WS-001	10	N/A	N/A	Connected to City of Marinette municipal water
WS-002	2	N/A	N/A	Well abandoned
WS-004	1	N/A	N/A	Well abandoned
WS-005	12	N/A	N/A	Well abandoned
WS-005B	2	N/A - See comment	N/A	Not a drinking water well
WS-006	4	N/A	N/A	Well abandoned
WS-007B[1]	2	N/A	N/A	Well abandoned
WS-010	7	RL<T3	Biennially	Deep well installation pending
WS-011	8	N/A	N/A	Well abandoned
WS-012	8	N/A	N/A	Well abandoned
WS-014	13	MDL<RL	Biennially	
WS-015	5	>T3	Biennially	
WS-016	8	N/A	N/A	Well abandoned
WS-020	9	N/A	N/A	Well abandoned
WS-021	3	N/A	N/A	Well abandoned
WS-022	8	N/A	N/A	Well abandoned
WS-026	10	MDL<RL	Biennially	
WS-027	6	N/A	N/A	Well abandoned
WS-028	5	N/A	N/A	Well abandoned
WS-029	9	N/A	N/A	Well abandoned
WS-031	11	N/A	N/A	Well abandoned
WS-033	11	RL<T3	Biennially	
WS-034	10	N/A	N/A	Well abandoned
WS-035[4]	7	>T3	Biennially	Deep well not applicable
WS-039	9	N/A	N/A	Well abandoned
WS-040	8	RL<T3	Biennially	
WS-043	7	N/A	N/A	Well abandoned
WS-044	11	N/A	N/A	Well abandoned
WS-045	11	N/A	N/A	Well abandoned
WS-046	6	N/A	N/A	Well abandoned
WS-047	2	N/A	N/A	Well abandoned
WS-048[1]	11	>T3	Annually	
WS-050	11	N/A	N/A	Well abandoned
WS-051	11	N/A	N/A	Well abandoned
WS-055	8	RL<T3	Biennially	Deep well installed
WS-056	5	N/A	N/A	Well abandoned
WS-059	6	RL<T3	Biennially	Deep well installed
WS-061A[5]	4	ND	Biennially	
WS-063	11	N/A	N/A	Well abandoned
WS-064	9	N/A	N/A	Well abandoned
WS-065	10	N/A	N/A	Well abandoned
WS-066	10	N/A	N/A	Well abandoned
WS-069A	9	N/A	N/A	Well abandoned
WS-069B[1]	9	N/A	N/A	Well abandoned
WS-070[1]	1	>T3	Annually	Deep well installation pending
WS-071	8	N/A	N/A	Well abandoned

Notes on Page 3.

Table 1
Potable Well Program Status
Revised Long-Term Potable Well Sampling Plan
Marinette, Wisconsin

Well ID	# of Quarterly Samples Collected[3]	Category	Sampling Frequency	Comments
WS-072	10	N/A	N/A	Well abandoned
WS-073	11	N/A	N/A	Well abandoned
WS-074	2	N/A	N/A	Well abandoned
WS-075	11	ND	Biennially	
WS-076	3	N/A	N/A	Well abandoned
WS-077	7	N/A	N/A	Well abandoned
WS-078	12	N/A	N/A	Well abandoned
WS-079	12	N/A	N/A	Well abandoned
WS-080	4	N/A	N/A	Well abandoned
WS-081	3	N/A	N/A	Well abandoned
WS-082	3	N/A	N/A	Well abandoned
WS-082B	2	N/A	N/A	Well abandoned
WS-082C	2	N/A	N/A	Well abandoned
WS-082D[1]	3	N/A	N/A	Well abandoned
WS-083	7	N/A	N/A	Well abandoned
WS-084	14	ND	Biennially	
WS-085	9	MDL<RL	Biennially	
WS-086	7	N/A	N/A	Well abandoned
WS-087	13	N/A	N/A	Well abandoned
WS-088	9	MDL<RL	Biennially	Deep well installation pending
WS-089	6	N/A	N/A	Well abandoned
WS-091	4	N/A	N/A	Well abandoned
WS-093	7	N/A	N/A	Well abandoned
WS-094[1]	7	N/A	N/A	Well abandoned
WS-095	3	N/A	N/A	Well abandoned
WS-098	6	N/A	N/A	Deep well liner installed
WS-101[2]	3	N/A	N/A	Well abandoned
WS-102	10	N/A	N/A	Well abandoned
WS-103	6	N/A	N/A	Well abandoned
WS-104	10	N/A	N/A	Well abandoned
WS-105	2	N/A	N/A	Well abandoned
WS-107	8	RL<T3	Biennially	
WS-108	10	N/A	N/A	Well abandoned
WS-110A	11	MDL<RL	Biennially	
WS-112	10	N/A	N/A	Well abandoned
WS-113	11	N/A	N/A	Well abandoned
WS-114	6	MDL<RL	Biennially	Deep well installation pending
WS-116	8	N/A	N/A	Well abandoned
WS-117	9	N/A	N/A	Well abandoned
WS-118A[6]	7	>T3	Biennially	Deep well installation pending
WS-118B[6]	6	ND	Biennially	Deep well installation pending
WS-119	11	N/A	N/A	Well abandoned
WS-120	7	N/A	N/A	Well abandoned
WS-122	11	N/A	N/A	Well abandoned
WS-123	6	N/A	N/A	Well abandoned
WS-124[1]	6	N/A	N/A	Well abandoned

Notes on Page 3.

Table 1
Potable Well Program Status
Revised Long-Term Potable Well Sampling Plan
Marinette, Wisconsin

Well ID	# of Quarterly Samples Collected[3]	Category	Sampling Frequency	Comments
WS-125	8	N/A	N/A	Well abandoned
WS-127	4	N/A	N/A	Well abandoned
WS-128	4	N/A	N/A	Well abandoned
WS-130	11	N/A	N/A	Converted to geothermal well
WS-131	7	N/A	N/A	Well abandoned
WS-132	9	N/A	N/A	Well abandoned
WS-134	6	N/A	N/A	Well abandoned
WS-135	4	N/A	N/A	Well abandoned
WS-136	7	N/A	N/A	Well abandoned
WS-137	8	N/A	N/A	Well abandoned
WS-138	9	N/A	N/A	Well abandoned
WS-139	8	N/A	N/A	Well abandoned
WS-140	7	N/A	N/A	Well abandoned
WS-141	8	N/A	N/A	Well abandoned
WS-142	4	N/A	N/A	Well abandoned
WS-143	7	N/A	N/A	Well abandoned
WS-144	6	RL<T3	Biennially	Deep well installed
WS-145	6	>T3	Biennially	
WS-146B	1	N/A - See comment	N/A	Not a drinking water well
WS-147[2]	3	N/A	N/A	Well abandoned
WS-148	2	N/A	N/A	Well abandoned per owner
WS-149	3	>T3	Biennially	
WS-150	3	N/A	N/A	Well abandoned
WS-151	6	N/A	N/A	Well abandoned
WS-153	8	N/A	N/A	Well abandoned
WS-154	6	N/A	N/A	Well abandoned
WS-155	3	MDL<RL	Biennially	
WS-156	8	N/A	N/A	Well abandoned
WS-157	6	N/A	N/A	Well abandoned
WS-158	3	N/A	N/A	Well abandoned
WS-159[1]	4	N/A	N/A	Well abandoned
WS-160	4	N/A	N/A	Well abandoned
WS-161	4	N/A	N/A	Well abandoned
WS-162	2	N/A	N/A	Well abandoned
WS-164	1	N/A	N/A	Well abandoned

Notes:
[1] = POET offer extended
[2] = POET offer declined
[3] = Number of quarterly samples collected through Spring 2025 sampling event
[4] = City of Marinette municipal water connection pending (scheduled for 2026)
[5] = The replacement well for WS-061A would also serve the structure currently being supplied by WS-061B
[6] = WS-118A and WS-118B would be replaced with one new deep well
ID = Identification
MDL = method detection limit
N/A = not applicable
ND = not detected above the laboratory MDL
RL = reporting limit
T3 = Table 3 Summary of Recommended Standards
Categorical determinations based on results above reporting limits where applicable
Deep wells with accepted agreements are listed as pending
Wells replaced by a new deep well are removed from the potable well sampling program

Table 2
POET System Program Status
Revised Long-Term Potable Well Sampling Plan
Marinette, Wisconsin

Well Sample ID	POET ID	Category	Sampling/Maintenance Status	Comments
WS-007A[(1)]	POET-43	N/A	Well abandoned	POET removed 5/1/2024
WS-008	POET-7	N/A	Well abandoned	POET removed 4/3/2024
WS-009	POET-26	>T3	Maintenance	
WS-013	POET-10	N/A	Well abandoned	POET removed 7/11/2024
WS-017	POET-40	>T3	Maintenance	
WS-018	POET-29	>T3	Maintenance	
WS-019	POET-5	N/A	Well abandoned	POET removed 10/11/2023
WS-023	POET-14	N/A	Well abandoned	POET removed 7/17/2024
WS-024	POET-11	N/A	Well abandoned	POET removed 4/28/2025
WS-025	POET-28	>T3	Maintenance	
WS-030	POET-31	N/A	Well abandoned	POET removed 11/22/2024
WS-032	POET-25	N/A	Well abandoned	POET removed 8/28/2024
WS-036	POET-3	N/A	Well abandoned	POET removed 11/28/2024
WS-037	POET-32	N/A	Well abandoned	POET removed 1/30/2023
WS-038	POET-19	N/A	Well abandoned	POET removed 12/18/2024
WS-041	POET-46	>T3	Maintenance	
WS-042	POET-45	>T3	Maintenance	
WS-049	POET-35	N/A	Well abandoned	POET removed 1/31/2025
WS-052	POET-2	N/A	Well abandoned	POET removed 12/11/2023
WS-053	POET-21	N/A	Well abandoned	POET removed 6/1/2023
WS-054	POET-30	N/A	Well abandoned	POET removed 5/10/2023
WS-057	POET-34	N/A	Well abandoned	POET removed 7/24/2024
WS-058	POET-1	N/A	Well abandoned	POET removed 8/8/2024
WS-060	POET-47	N/A	Well abandoned	POET removed 4/30/2025
WS-061B	POET-27	>T3	Maintenance	
WS-062	POET-44	N/A	Well abandoned	POET removed 10/10/2023
WS-067	POET-39	N/A	Well abandoned	POET removed 9/12/2024
WS-068	POET-12	N/A	Well abandoned	POET removed 10/17/2023
WS-090	POET-4	N/A	Well abandoned	POET removed 10/9/2023
WS-092	POET-22	N/A	Well abandoned	POET removed 9/26/2024
WS-096	POET-6	N/A	Well abandoned	POET removed 5/13/2025
WS-097	POET-13	N/A	Well abandoned	POET removed 1/25/2024
WS-099	POET-15	N/A	Well abandoned	POET removed 1/22/2024
WS-100	POET-24	N/A	Well abandoned	POET removed 1/22/2024
WS-106 / WS-106R	POET-37	N/A	Well abandoned	POET removed 7/16/2024
WS-109	POET-17	N/A	Well abandoned	POET removed 8/27/2024
WS-111	POET-18	N/A	Well abandoned	POET removed 9/5/2024
WS-115	POET-20	MDL < RL	Maintenance	
WS-121A	POET-16	N/A	Well abandoned	POET removed 9/16/2024
WS-121B	POET-36	N/A	Well abandoned	POET removed 9/16/2024
WS-126	POET-23	N/A	Well abandoned	POET removed 10/27/2023
WS-129	POET-38	N/A	Well abandoned	POET removed 10/17/2024
WS-133	POET-33	N/A	Well abandoned	POET removed 2/6/2023
WS-146A / WS-146AR	POET-8	N/A	Well abandoned	POET removed 5/2/2024
WS-146B	POET-9	N/A - See comment	POET uninstalled	Not a drinking water well
WS-152	POET-42	>T3	Maintenance	
WS-163	POET-41	N/A	Well abandoned	POET removed by former homeowner

Notes:

[(1)] = During deep well installation, it was discovered that the POET system was connected to WS-007B. All POET influent data identified as WS-007A is actually from WS-007B.

Sampling/Maintenance status subject to change based on available data

ID = Identification

MDL = Method detection limit

POET = Point of Entry Treatment

RL = Reporting limit

T3 = Table 3 Summary of Recommended Standards

Categorical determinations based on results above reporting limits where applicable

Deep wells that have been scheduled for drilling are listed as pending

Wells replaced by a new deep well are removed from the POET program

Table 3
List of Compounds
Revised Long-Term Potable Well Sampling Plan
Marinette, Wisconsin

Analyte	Wisconsin DHS Recommended Standards February 2025 (in Rulemaking/Not Yet Adopted) [1]	Health Advisory Recommendations [2]	Public/Municipal Drinking Water Standards (Not Applicable to Private Wells) [3]	Units
PFBA	--	10,000	--	ng/L
PFPeA	--	--	--	ng/L
PFHxA	--	150,000	--	ng/L
PFHpA	--	--	--	ng/L
PFOA	4	4	4	ng/L
PFNA	10	10	10	ng/L
PFDA	--	300	--	ng/L
PFUnA	--	3,000	--	ng/L
PFDoA	--	500	--	ng/L
PFTriA	--	--	--	ng/L
PFTeA	--	10,000	--	ng/L
PFHxDA	--	--	--	ng/L
PFODA	--	400,000	--	ng/L
PFBS	2,000	2,000	2,000	ng/L
PFPeS	--	--	--	ng/L
PFHxS	10	10	10	ng/L
PFHpS	--	--	--	ng/L
PFOS	4	4	4	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	--	4	--	ng/L
NMeFOSA	--	--	--	ng/L
NEtFOSA	--	4	--	ng/L
NMeFOSAA	--	--	--	ng/L
NEtFOSAA	--	4	--	ng/L
NMeFOSE	--	--	--	ng/L
NEtFOSE	--	4	--	ng/L
PFMPA	--	--	--	ng/L
PFMBA	--	--	--	ng/L
NFDHA	--	--	--	ng/L
HFPO-DA	10	10	10	ng/L
DONA	--	3,000	--	ng/L
PFEESA	--	--	--	ng/L
9Cl-PF3ONS	--	--	--	ng/L
11Cl-PF3OUdS	--	--	--	ng/L
3:3 FTCA	--	--	--	ng/L
5:3 FTCA	--	--	--	ng/L
7:3 FTCA	--	--	--	ng/L

Notes:

-- = No standard

ng/L = nanograms per liter

[1] = In February 2025, Wisconsin DHS recommended individual groundwater standards of 4 nanograms per liter (ng/L) for PFOA and PFOS, 10 ng/L for perfluorohexanesulfonic acid (PFHxS), perfluorononanoic acid (PFNA), and hexafluoropropylene oxide dimer acid (HFPO-DA), and 2,000 ng/L for perfluorobutanesulfonic acid (PFBS). Following the February 2025 WDHS recommendation, the WDNR Secretary and the Governor signed the WDNR scope statement and the WDNR has initiated the rulemaking process for these proposed groundwater standards.

[2] = Health Advisories issued by WDHS are recommendations; they are not properly promulgated and enforceable standards. In 2025, WDHS established individual drinking water health advisories for FOSA, NEtFOSA, NEtFOSAA, and NEtFOSE. Previously, WDHS established health advisories for PFDA, PFDoA, PFBS, DONA, PFUnA, PFBA, PFTeA, PFHxA, and PFODA.

[3] = In 2024, the US EPA established individual Maximum Contaminant Levels in drinking water for a number of substances, including PFOA, PFOS, PFHxS, PFNA, and HFPO-DA; and for mixtures containing two or more of PFHxS, PFNA, HFPO-DA and PFBS calculated as a Hazard Index. These standards do not apply to private drinking water wells. U.S. EPA has announced its intent to rescind the regulations and reconsider the regulatory determinations for PFHxS, PFNA, and HFPO-DA; and for mixtures containing two or more of PFHxS, PFNA, HFPO-DA and PFBS calculated as a Hazard Index.

Table 3
List of Compounds
Revised Long-Term Potable Well Sampling Plan
Marinette, Wisconsin

Chemical Abbreviations:

PFBA = Perfluorobutanoic acid
PFPeA = Perfluoropentanoic acid
PFHxA = Perfluorohexanoic acid
PFHpA = Perfluoroheptanoic acid
PFOA = Perfluorooctanoic acid
PFNA = Perfluorononanoic acid
PFDA = Perfluorodecanoic acid
PFUnA = Perfluoroundecanoic acid
PFDoA = Perfluorododecanoic acid
PFTriA = Perfluorotridecanoic acid
PFTeA = Perfluorotetradecanoic acid
PFHxDA = Perfluorohexadecanoic acid
PFODA = Perfluorooctadecanoic acid
PFBS = Perfluorobutanesulfonic acid
PFPeS = Perfluoropentanesulfonic acid
PFHxS = Perfluorohexanesulfonic acid
PFHpS = Perfluoroheptanesulfonic acid
PFOS = Perfluorooctanesulfonic acid
PFNS = Perfluorononanesulfonic acid
PFDS = Perfluorodecanesulfonic acid
PFDoS = Perfluorododecanesulfonic acid
4:2 FTS = 4:2 Fluorotelomer sulfonic acid
6:2 FTS = 6:2 Fluorotelomer sulfonic acid
8:2 FTS = 8:2 Fluorotelomer sulfonic acid
10:2 FTS = 10:2 Fluorotelomer sulfonic acid
FOSA = Perfluorooctane sulfonamide
NMeFOSA = N-Methyl perfluorooctane sulfonamide
NEtFOSA = N-Ethyl perfluorooctane sulfonamide
NMeFOSAA = N-Methyl perfluorooctane sulfonamidoacetic acid
NEtFOSAA = N-Ethyl perfluorooctane sulfonamidoacetic acid
NMeFOSE = N-Methyl perfluorooctane sulfonamidoethanol
NEtFOSE = N-Ethyl perfluorooctane sulfonamidoethanol
PFMPA = Perfluoro-3-methoxypropanoic acid
PFMBA = Perfluoro-4-methoxybutanoic acid
NFDHA = Nonafluoro-3,6-dioxaheptanoic acid
HFPO-DA = Hexafluoropropylene oxide dimer acid
DONA = 4,8-Dioxa-3H-perfluorononanoic acid
PFEESA = Perfluoro(2-ethoxyethane)sulfonic acid
9Cl-PF3ONS = 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
11Cl-PF3OUdS = 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
3:3 FTCA = 3-Perfluoropropyl propanoic acid
5:3 FTCA = 2H,2H,3H,3H-Perfluorooctanoic acid
7:3 FTCA = 3-Perfluoroheptyl propanoic acid

Table 4
Potable Well Results
Revised Long-Term Potable Well Sampling Plan
Marinette, Wisconsin

				Location	WS-017	WS-017	WS-018	WS-018	WS-018	WS-018	WS-025
				Sample ID	POET-40-POST (071824)	DUP-550 (071824)	POET-29-POST (012125)	POET-29-POST (100924)	DUP-552 (100924)	DUP-554 (012125)	POET-28-POST (021925)
				Parent Sample ID		POET-40-POST (071824)			POET-29-POST (100924)	POET-29-POST (012125)	
				Sample Event	POET Effluent	POET Effluent	POET Effluent	POET Effluent	POET Effluent	POET Effluent	POET Effluent
				Sample Date	7/18/2024	7/18/2024	1/21/2025	10/9/2024	10/9/2024	1/21/2025	2/19/2025
				Sample Type	N	FD	N	N	FD	FD	N
				General Well Depth	Deep	Deep	Shallow	Shallow	Shallow	Shallow	Shallow
				Detailed Well Depth	120	120	26-28	26-28	26-28	26-28	30-40
				Source	+, -	+, -	-	-	-	-	-
Chemical Name	Wisconsin DHS Recommended Standards February 2025 (in Rulemaking/Not Yet Adopted) [1]	Health Advisory Recommendations [2]	Public/Municipal Drinking Water Standards (Not Applicable to Private Wells) [3]	Unit							
PFBA	--	10000	--	ng/L	<2.2 U	<2.1 U	<0.79 U	<2.1 U	<2.1 U	<0.78 U	<3.1 UB
PFPeA	--	--	--	ng/L	<0.45 U	<0.42 U	<0.40 U	<0.43 U	<0.43 U	<0.39 U	<0.18 U
PFHxA	--	150000	--	ng/L	<0.53 U	<0.50 U	<0.40 U	<0.51 U	<0.51 U	<0.39 U	<0.21 U
PFHpA	--	--	--	ng/L	<0.23 U	<0.21 U	<0.40 U	<0.22 U	<0.22 U	<0.39 U	<0.27 U
PFOA	4	4	4	ng/L	<0.78 U	<0.73 U	<0.40 U	<0.75 U	<0.74 U	<0.39 U	<0.30 U
PFNA	10	10	10	ng/L	<0.25 U	<0.23 U	<0.40 U	<0.24 U	<0.24 U	<0.39 U	<0.35 U
PFDA	--	300	--	ng/L	<0.28 U	<0.27 U	<0.40 U	<0.27 U	<0.27 U	<0.39 U	<0.34 U
PFUnA	--	3000	--	ng/L	<1.0 U	<0.95 U	<0.40 U	<0.97 U	<0.96 U	<0.39 U	<0.18 U
PFDoA	--	500	--	ng/L	<0.50 U	<0.47 U	<0.44 U	<0.48 U	<0.48 U	<0.43 U	<0.43 U
PFTriA	--	--	--	ng/L	<1.2 U	<1.1 U	<0.46 U	<1.1 U	<1.1 U	<0.45 U	<0.45 U
PFTeA	--	10000	--	ng/L	<0.67 U	<0.63 U	<0.64 U	<0.64 U	<0.64 U	<0.63 U	<0.63 U
PFHxDA	--	--	--	ng/L	<0.82 U	<0.76 U	NA	<0.78 U	<0.78 U	NA	NA
PFODA	--	400000	--	ng/L	<0.86 U	<0.81 U	NA	<0.83 UJ-	<0.82 U	NA	NA
PFBS	2000	2000	2,000	ng/L	<0.18 U	<0.17 U	<0.40 U	<0.18 U	<0.18 U	<0.39 U	<0.22 U
PFPeS	--	--	--	ng/L	<0.28 U	<0.26 U	<0.40 U	<0.26 U	<0.26 U	<0.39 U	<0.17 U
PFHxS	10	10	10	ng/L	<0.52 U	<0.49 U	<0.40 U	<0.50 U	<0.50 U	<0.39 U	<0.19 U
PFHpS	--	--	--	ng/L	<0.17 U	<0.16 U	<0.40 U	<0.17 U	<0.17 U	<0.39 U	<0.14 U
PFOS	4	4	4	ng/L	<0.50 U	<0.46 U	<0.40 U	<0.48 U	<0.47 U	0.74 J	<0.21 U
PFNS	--	--	--	ng/L	<0.34 U	<0.32 U	<0.40 U	<0.33 U	<0.32 U	<0.39 U	<0.24 U
PFDS	--	--	--	ng/L	<0.29 U	<0.28 U	<0.40 U	<0.28 U	<0.28 U	<0.39 U	<0.24 U
PFDoS	--	--	--	ng/L	<0.89 U	<0.83 U	<0.42 U	<0.85 U	<0.85 U	<0.41 U	<0.41 U
4:2 FTS	--	--	--	ng/L	<0.22 U	<0.21 U	<0.79 U	<0.21 U	<0.21 U	<0.78 U	<0.34 U
6:2 FTS	--	--	--	ng/L	<2.3 U	<2.1 U	<0.79 U	<2.2 U	<2.2 U	<0.78 U	<0.31 U
8:2 FTS	--	--	--	ng/L	<0.42 U	<0.40 U	<0.79 U	<0.41 U	<0.40 U	<0.78 U	<0.69 U
10:2 FTS	--	--	--	ng/L	<0.62 U	<0.58 U	NA	<0.59 U	<0.59 U	NA	NA
FOSA	--	4	--	ng/L	<0.90 U	<0.84 U	<0.40 U	<0.86 U	<0.86 U	<0.39 U	<0.17 U
NMeFOSA	--	--	--	ng/L	<0.39 U	<0.37 U	<0.40 U	<0.38 U	<0.38 U	<0.39 U	<0.30 U
NEtFOSA	--	4	--	ng/L	<0.80 U	<0.75 U	<0.40 U	<0.77 U	<0.76 U	<0.39 U	<0.35 U
NMeFOSAA	--	--	--	ng/L	<1.1 U	<1.0 U	<0.40 U	<1.1 U	<1.1 U	<0.39 U	<0.27 U
NEtFOSAA	--	4	--	ng/L	<1.2 U	<1.1 U	<0.40 U	<1.1 U	<1.1 U	<0.39 U	<0.34 U
NMeFOSE	--	--	--	ng/L	<1.3 U	<1.2 U	<2.0 U	<1.2 U	<1.2 U	<1.9 U	<1.8 U
NEtFOSE	--	4	--	ng/L	<0.78 U	<0.73 U	<2.0 U	<0.75 U	<0.74 U	<1.9 U	<1.9 U
PFMPA	--	--	--	ng/L	NA	NA	<0.40 U	NA	NA	<0.39 U	<0.15 UJ
PFMBA	--	--	--	ng/L	NA	NA	<0.40 U	NA	NA	<0.39 U	<0.20 U
NFDHA	--	--	--	ng/L	NA	NA	<0.57 U	NA	NA	<0.56 U	<0.56 U
HFPO-DA	10	10	10	ng/L	<1.4 U	<1.3 U	<0.31 U	<1.3 U	<1.3 U	<0.30 U	<0.30 U
DONA	--	3000	--	ng/L	<0.37 U	<0.34 U	<0.40 U	<0.35 U	<0.35 U	<0.39 U	<0.31 U
PFEESA	--	--	--	ng/L	NA	NA	<0.40 U	NA	NA	<0.39 U	<0.19 U
9Cl-PF3ONS	--	--	--	ng/L	<0.22 U	<0.21 U	<0.46 U	<0.21 U	<0.21 U	<0.45 U	<0.45 U
11Cl-PF3OUdS	--	--	--	ng/L	<0.29 U	<0.28 U	<0.40 U	<0.28 U	<0.28 U	<0.39 U	<0.23 U
3:3 FTCA	--	--	--	ng/L	NA	NA	<0.79 U	NA	NA	<0.78 U	<0.56 U
5:3 FTCA	--	--	--	ng/L	NA	NA	<2.0 U	NA	NA	<1.9 U	<1.3 U
7:3 FTCA	--	--	--	ng/L	NA	NA	<2.0 U	NA	NA	<1.9 U	<0.96 U

Table 4
Potable Well Results
Revised Long-Term Potable Well Sampling Plan
Marinette, Wisconsin

				Location	WS-025	WS-036	WS-036	WS-057	WS-057	WS-060	WS-061B
				Sample ID	DUP-556 (021925)	WS-036 (061125)	DUP-560 (061125)	POET-34-POST (071024)	DUP-549 (071024)	POET-47-POST (012225)	POET-27-POST (043025)
				Parent Sample ID	POET-28-POST (021925)		WS-036 (061125)		POET-34-POST (071024)		
				Sample Event	POET Effluent	Spring 2025	Spring 2025	POET Effluent	POET Effluent	POET Effluent	POET Effluent
				Sample Date	2/19/2025	6/11/2025	6/11/2025	7/10/2024	7/10/2024	1/22/2025	4/30/2025
				Sample Type	FD	N	FD	N	FD	N	N
				General Well Depth	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
				Detailed Well Depth	30-40	<30	<30	-	-	25-30	-
				Source	-	-	-	-	-	-	-
Chemical Name	Wisconsin DHS Recommended Standards February 2025 (in Rulemaking/Not Yet Adopted) [1]	Health Advisory Recommendations [2]	Public/Municipal Drinking Water Standards (Not Applicable to Private Wells) [3]	Unit							
PFBA	--	10000	--	ng/L	<3.1 UB	18	18	<2.3 U	<2.3 U	<0.83 U	<0.31 U
PFPeA	--	--	--	ng/L	<0.18 U	16	17	<0.46 U	<0.47 U	<0.41 U	<0.19 U
PFHxA	--	150000	--	ng/L	<0.21 U	13	13	<0.55 UB	<0.56 UB	<0.41 U	<0.22 U
PFHpA	--	--	--	ng/L	<0.27 U	8.4	8.3	<0.24 U	<0.24 U	<0.41 U	<0.28 U
PFOA	4	4	4	ng/L	<0.30 U	17	17	<0.80 U	<0.82 U	<0.41 U	<0.32 U
PFNA	10	10	10	ng/L	<0.35 U	1.2 J	1.1 J	<0.25 U	<0.26 U	<0.41 U	<0.37 U
PFDA	--	300	--	ng/L	<0.34 U	<0.36 U	<0.36 U	<0.29 U	<0.30 U	<0.41 U	<0.36 U
PFUnA	--	3000	--	ng/L	<0.17 U	<0.18 U	<0.19 U	<1.0 U	<1.1 U	<0.41 U	<0.19 U
PFDoA	--	500	--	ng/L	<0.42 U	<0.45 U	<0.46 U	<0.52 U	<0.53 U	<0.45 U	<0.45 U
PFTriA	--	--	--	ng/L	<0.44 U	<0.47 U	<0.48 U	<1.2 U	<1.3 U	<0.48 U	<0.47 U
PFTeA	--	10000	--	ng/L	<0.62 U	<0.66 U	<0.67 U	<0.69 U	<0.71 U	<0.67 U	<0.66 U
PFHxDA	--	--	--	ng/L	NA	NA	NA	<0.84 U	<0.86 U	NA	NA
PFODA	--	400000	--	ng/L	NA	NA	NA	<0.89 U	<0.91 U	NA	NA
PFBS	2000	2000	2,000	ng/L	<0.21 U	2.4	2.7	<0.19 U	<0.19 U	<0.41 U	<0.23 U
PFPeS	--	--	--	ng/L	<0.16 U	0.35 J	0.34 J	<0.28 U	<0.29 U	<0.41 U	<0.17 U
PFHxS	10	10	10	ng/L	<0.19 U	2.2	2.4	<0.54 U	<0.55 U	<0.41 U	<0.20 U
PFHpS	--	--	--	ng/L	<0.13 U	<0.14 U	<0.14 U	<0.18 U	<0.18 U	<0.41 U	<0.14 U
PFOS	4	4	4	ng/L	<0.21 U	5.3 J	4.7 J	<0.51 U	<0.52 U	<0.41 U	<0.23 U
PFNS	--	--	--	ng/L	<0.24 U	<0.25 U	<0.26 U	<0.35 U	<0.36 U	<0.41 U	<0.26 U
PFDS	--	--	--	ng/L	<0.24 U	<0.25 U	<0.26 U	<0.30 U	<0.31 U	<0.41 U	<0.25 U
PFDoS	--	--	--	ng/L	<0.41 U	<0.43 U	<0.44 U	<0.92 U	<0.94 U	<0.44 U	<0.43 U
4:2 FTS	--	--	--	ng/L	<0.33 U	<0.35 U	<0.36 U	<0.23 U	<0.23 U	<0.83 U	<0.36 U
6:2 FTS	--	--	--	ng/L	<0.31 U	1.2 J	1.2 J	<2.4 U	<2.4 U	<0.83 U	<0.33 U
8:2 FTS	--	--	--	ng/L	<0.69 U	1.8 J	1.4 J	<0.43 U	<0.44 U	<0.83 U	<0.74 U
10:2 FTS	--	--	--	ng/L	NA	NA	NA	<0.63 U	<0.65 U	NA	NA
FOSA	--	4	--	ng/L	<0.17 U	<0.18 U	<0.19 U	<0.93 U	<0.95 U	<0.41 U	<0.18 U
NMeFOSA	--	--	--	ng/L	<0.29 U	<0.31 U	<0.32 U	<0.41 U	<0.42 U	<0.41 U	<0.32 U
NEtFOSA	--	4	--	ng/L	<0.34 U	<0.36 U	<0.37 U	<0.82 U	<0.84 U	<0.41 U	<0.37 U
NMeFOSAA	--	--	--	ng/L	<0.27 U	<0.28 U	<0.29 U	<1.1 U	<1.2 U	<0.41 U	<0.29 U
NEtFOSAA	--	4	--	ng/L	<0.34 U	<0.36 U	<0.36 U	<1.2 U	<1.3 U	<0.41 U	<0.36 U
NMeFOSE	--	--	--	ng/L	<1.7 U	<1.9 U	<1.9 U	<1.3 U	<1.4 U	<2.1 U	<1.9 U
NEtFOSE	--	4	--	ng/L	<1.9 U	<2.0 U	<2.0 U	<0.80 U	<0.82 U	<2.1 U	<2.0 U
PFMPA	--	--	--	ng/L	<0.15 U	<0.15 U	<0.16 U	NA	NA	<0.41 U	<0.16 U
PFMBA	--	--	--	ng/L	<0.20 U	<0.21 U	<0.21 U	NA	NA	<0.41 U	<0.21 U
NFDHA	--	--	--	ng/L	<0.55 U	<0.58 U	<0.59 U	NA	NA	<0.60 U	<0.59 U
HFPO-DA	10	10	10	ng/L	<0.30 U	<0.32 U	<0.32 U	<1.4 U	<1.4 U	<0.32 U	<0.32 U
DONA	--	3000	--	ng/L	<0.31 U	<0.32 U	<0.33 U	<0.38 U	<0.39 U	<0.41 U	<0.33 U
PFEESA	--	--	--	ng/L	<0.19 U	<0.20 U	<0.21 U	NA	NA	<0.41 U	<0.20 U
9Cl-PF3ONS	--	--	--	ng/L	<0.44 U	<0.47 U	<0.48 U	<0.23 U	<0.23 U	<0.48 U	<0.48 U
11Cl-PF3OUdS	--	--	--	ng/L	<0.23 U	<0.24 U	<0.25 U	<0.30 U	<0.31 U	<0.41 U	<0.24 U
3:3 FTCA	--	--	--	ng/L	<0.55 U	<0.58 U	<0.59 U	NA	NA	<0.83 U	<0.59 U
5:3 FTCA	--	--	--	ng/L	<1.3 U	<1.4 U	<1.4 U	NA	NA	<2.1 U	<1.4 U
7:3 FTCA	--	--	--	ng/L	<0.95 U	<1.0 U	<1.0 U	NA	NA	<2.1 U	<1.0 U

Table 4
Potable Well Results
Revised Long-Term Potable Well Sampling Plan
Marinette, Wisconsin

				Location	WS-061B	WS-084	WS-084	WS-096	WS-096	WS-096	WS-096
				Sample ID	DUP-558 (043025)	WS-084 (020325)	DUP-555 (020325)	WS-096 (081924)	POET-6-MID (081924)	POET-6-POST (081924)	DUP-551 (081924)
				Parent Sample ID	POET-27-POST (043025)		WS-084 (020325)				POET-6-MID (081924)
				Sample Event	POET Effluent	Winter 2025	Winter 2025	POET	POET	POET	POET
				Sample Date	4/30/2025	2/3/2025	2/3/2025	8/19/2024	8/19/2024	8/19/2024	8/19/2024
				Sample Type	FD	N	FD	N	N	N	FD
				General Well Depth	Shallow	Deep	Deep	Shallow	Shallow	Shallow	Shallow
				Detailed Well Depth	-	122	122	27	27	27	27
				Source	-	+, -	+, -	-	-	-	-
Chemical Name	Wisconsin DHS Recommended Standards February 2025 (in Rulemaking/Not Yet Adopted) [1]	Health Advisory Recommendations [2]	Public/Municipal Drinking Water Standards (Not Applicable to Private Wells) [3]	Unit							
PFBA	--	10000	--	ng/L	<0.29 U	<0.32 U	<0.30 U	20	< 2.2 U	< 2.1 U	< 2.2 U
PFPeA	--	--	--	ng/L	<0.18 U	<0.20 U	<0.18 U	54	< 0.45 U	< 0.42 U	< 0.44 U
PFHxA	--	150000	--	ng/L	<0.21 U	<0.23 U	<0.21 U	48	< 0.53 U	< 0.52 U	< 0.52 U
PFHpA	--	--	--	ng/L	<0.27 U	<0.29 U	<0.27 U	35	< 0.23 U	< 0.22 U	< 0.22 U
PFOA	4	4	4	ng/L	<0.31 U	<0.33 U	<0.31 U	230	< 0.78 U	< 0.73 U	< 0.76 U
PFNA	10	10	10	ng/L	<0.36 U	<0.38 U	<0.36 U	10	< 0.25 U	< 0.23 U	< 0.24 U
PFDA	--	300	--	ng/L	<0.35 U	<0.37 U	<0.35 U	0.30 J	< 0.28 U	< 0.27 U	< 0.28 U
PFUnA	--	3000	--	ng/L	<0.18 U	<0.19 U	<0.18 U	<0.98 U	< 1.0 U	< 0.95 U	< 0.99 U
PFDoA	--	500	--	ng/L	<0.44 U	<0.47 U	<0.44 U	<0.49 U	< 0.50 U	< 0.47 U	< 0.49 U
PFTriA	--	--	--	ng/L	<0.45 U	<0.49 U	<0.46 U	<1.2 U	< 1.2 U	< 1.1 U	< 1.2 U
PFTeA	--	10000	--	ng/L	<0.64 U	<0.68 U	<0.64 U	<0.65 U	< 0.67 U	< 0.63 U	< 0.66 U
PFHxDA	--	--	--	ng/L	NA	NA	NA	<0.80 U	< 0.81 U	< 0.77 U	< 0.80 U
PFODA	--	400000	--	ng/L	NA	NA	NA	<0.84 U	< 0.86 U	< 0.81 U	< 0.84 U
PFBS	2000	2000	2,000	ng/L	<0.22 U	<0.24 U	<0.22 U	1.2 J	< 0.18 U	< 0.17 U	< 0.18 U
PFPeS	--	--	--	ng/L	<0.17 U	<0.18 U	<0.17 U	0.69 J	< 0.27 U	< 0.26 U	< 0.27 U
PFHxS	10	10	10	ng/L	<0.19 U	<0.21 U	<0.19 U	19	< 0.52 U	< 0.49 U	< 0.51 U
PFHpS	--	--	--	ng/L	<0.14 U	<0.15 U	<0.14 U	<0.17 U	< 0.17 U	< 0.16 U	< 0.17 U
PFOS	4	4	4	ng/L	<0.22 U	<0.23 U	<0.22 U	5.4	< 0.49 U	< 0.47 U	< 0.49 U
PFNS	--	--	--	ng/L	<0.24 U	<0.26 U	<0.25 U	<0.33 U	< 0.34 U	< 0.32 U	< 0.33 U
PFDS	--	--	--	ng/L	<0.24 U	<0.26 U	<0.25 U	<0.29 U	< 0.29 U	< 0.28 U	< 0.29 U
PFDoS	--	--	--	ng/L	<0.42 U	<0.45 U	<0.42 U	<0.87 U	< 0.89 U	< 0.84 U	< 0.87 U
4:2 FTS	--	--	--	ng/L	<0.34 U	<0.37 U	<0.35 U	<0.21 U	< 0.22 U	< 0.21 U	< 0.22 U
6:2 FTS	--	--	--	ng/L	<0.32 U	<0.34 U	<0.32 U	5.6	< 2.3 U	< 2.2 U	< 2.2 U
8:2 FTS	--	--	--	ng/L	<0.70 U	<0.76 U	<0.71 U	<0.41 U	< 0.42 U	< 0.40 U	< 0.41 U
10:2 FTS	--	--	--	ng/L	NA	NA	NA	<0.60 U	< 0.61 U	< 0.58 U	< 0.60 U
FOSA	--	4	--	ng/L	<0.18 U	<0.19 U	<0.18 U	<0.88 U	< 0.89 U	3.4	< 0.88 U
NMeFOSA	--	--	--	ng/L	<0.30 U	<0.33 U	<0.30 U	<0.38 U	< 0.39 U	< 0.37 U	< 0.39 U
NEtFOSA	--	4	--	ng/L	<0.35 U	<0.38 U	<0.35 U	<0.78 U	< 0.79 U	< 0.75 U	< 0.78 U
NMeFOSAA	--	--	--	ng/L	<0.28 U	<0.30 U	<0.28 U	<1.1 U	< 1.1 U	< 1.0 U	< 1.1 U
NEtFOSAA	--	4	--	ng/L	<0.35 U	<0.37 U	<0.35 U	<1.2 U	< 1.2 U	< 1.1 U	< 1.2 U
NMeFOSE	--	--	--	ng/L	<1.8 U	<1.9 U	<1.8 U	<1.3 U	< 1.3 U	< 1.2 U	< 1.3 U
NEtFOSE	--	4	--	ng/L	<1.9 U	<2.1 U	<1.9 U	<0.76 U	< 0.78 U	< 0.73 U	< 0.76 U
PFMPA	--	--	--	ng/L	<0.15 U	<0.16 U	<0.15 U	NA	NA	NA	NA
PFMBA	--	--	--	ng/L	<0.20 U	<0.22 U	<0.20 U	NA	NA	NA	NA
NFDHA	--	--	--	ng/L	<0.57 U	<0.61 U	<0.57 U	NA	NA	NA	NA
HFPO-DA	10	10	10	ng/L	<0.31 U	<0.33 U	<0.31 U	<1.3 U	< 1.4 U	< 1.3 U	< 1.3 U
DONA	--	3000	--	ng/L	<0.31 U	<0.34 U	<0.32 U	<0.36 U	< 0.37 U	< 0.35 U	< 0.36 U
PFEESA	--	--	--	ng/L	<0.20 U	<0.21 U	<0.20 U	NA	NA	NA	NA
9Cl-PF3ONS	--	--	--	ng/L	<0.46 U	<0.49 U	<0.46 U	<0.21 U	< 0.22 U	< 0.21 U	< 0.22 U
11Cl-PF3OUdS	--	--	--	ng/L	<0.23 U	<0.25 U	<0.23 U	<0.29 U	< 0.29 U	< 0.28 U	< 0.29 U
3:3 FTCA	--	--	--	ng/L	<0.57 U	<0.61 U	<0.57 U	NA	NA	NA	NA
5:3 FTCA	--	--	--	ng/L	<1.4 U	<1.5 U	<1.4 U	NA	NA	NA	NA
7:3 FTCA	--	--	--	ng/L	<0.97 U	<1.1 U	<0.98 U	NA	NA	NA	NA

Table 4
Potable Well Results
Revised Long-Term Potable Well Sampling Plan
Marinette, Wisconsin

				Location	WS-096	WS-096	WS-096	WS-096	WS-096	WS-096	WS-096
				Sample ID	WS-096 (121124)	POET-6-MID (121124)	POET-6-POST (121124)	DUP-553 (121124)	WS-096 (032025)	POET-6-MID (032025)	POET-6-POST (032025)
				Parent Sample ID				POET-6-POST (121124)			
				Sample Event	POET	POET	POET	POET	POET	POET	POET
				Sample Date	12/11/2024	12/11/2024	12/11/2024	12/11/2024	3/20/2025	3/20/2025	3/20/2025
				Sample Type	N	N	N	FD	N	N	N
				General Well Depth	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
				Detailed Well Depth	27	27	27	27	27	27	27
				Source	-	-	-	-	-	-	-
Chemical Name	Wisconsin DHS Recommended Standards February 2025 (in Rulemaking/Not Yet Adopted) [1]	Health Advisory Recommendations [2]	Public/Municipal Drinking Water Standards (Not Applicable to Private Wells) [3]	Unit							
PFBA	--	10000	--	ng/L	19	< 1.3 U	< 1.1 U	< 1.1 U	16	3.2	< 0.30 U
PFPeA	--	--	--	ng/L	56	< 0.50 U	< 0.46 U	< 0.43 U	44	0.43 J	< 0.19 U
PFHxA	--	150000	--	ng/L	48	< 0.58 U	< 0.53 U	< 0.50 U	41	0.23 J	< 0.22 U
PFHpA	--	--	--	ng/L	34	< 0.50 U	< 0.46 U	< 0.43 U	29	< 0.26 U	< 0.28 U
PFOA	4	4	4	ng/L	290	< 0.50 U	< 0.46 U	< 0.43 U	210	0.88 J	< 0.32 U
PFNA	10	10	10	ng/L	11	< 0.50 U	< 0.46 U	< 0.43 U	14	< 0.35 U	< 0.37 U
PFDA	--	300	--	ng/L	<0.50 U	< 0.50 U	< 0.46 U	< 0.43 U	0.37 J	< 0.34 U	< 0.36 U
PFUnA	--	3000	--	ng/L	<0.50 U	< 0.50 U	< 0.46 U	< 0.43 U	<0.18 U	< 0.17 U	< 0.18 U
PFDoA	--	500	--	ng/L	<0.55 U	< 0.55 U	< 0.50 U	< 0.47 U	<0.45 U	< 0.42 U	< 0.45 U
PFTriA	--	--	--	ng/L	<0.50 U	< 0.50 U	< 0.46 U	< 0.43 U	<0.46 U	< 0.44 U	< 0.46 U
PFTeA	--	10000	--	ng/L	<0.73 U	< 0.74 U	< 0.67 U	< 0.63 U	<0.65 U	< 0.62 U	< 0.65 U
PFHxDA	--	--	--	ng/L	<0.50 U	< 0.50 U	< 0.46 U	< 0.43 U	NA	NA	NA
PFODA	--	400000	--	ng/L	<0.94 U	< 0.95 U	< 0.86 U	< 0.80 U	NA	NA	NA
PFBS	2000	2000	2,000	ng/L	1.0 J	< 0.50 U	< 0.46 U	< 0.43 U	1.2 J	< 0.21 U	< 0.23 U
PFPeS	--	--	--	ng/L	0.52 J	< 0.50 U	< 0.46 U	< 0.43 U	0.61 J	< 0.16 U	< 0.17 U
PFHxS	10	10	10	ng/L	20	< 0.57 U	< 0.52 U	< 0.49 U	13	< 0.19 U	< 0.20 U
PFHpS	--	--	--	ng/L	<0.50 U	< 0.50 U	< 0.46 U	< 0.43 U	<0.14 U	< 0.13 U	< 0.14 U
PFOS	4	4	4	ng/L	5.5	< 0.50 U	< 0.46 U	< 0.43 U	6.3	0.21 J	< 0.22 U
PFNS	--	--	--	ng/L	<0.50 U	< 0.50 U	< 0.46 U	< 0.43 U	<0.25 U	< 0.24 U	< 0.25 U
PFDS	--	--	--	ng/L	<0.50 U	< 0.50 U	< 0.46 U	< 0.43 U	<0.25 U	< 0.24 U	< 0.25 U
PFDoS	--	--	--	ng/L	<0.97 UJ-	< 0.98 U	< 0.89 U	< 0.83 U	<0.43 U	< 0.40 U	< 0.43 U
4:2 FTS	--	--	--	ng/L	<0.50 U	< 0.50 U	< 0.46 U	< 0.43 U	<0.35 U	< 0.33 U	< 0.35 U
6:2 FTS	--	--	--	ng/L	5.5	< 1.3 U	< 1.1 U	< 1.1 U	15	< 0.31 U	< 0.33 U
8:2 FTS	--	--	--	ng/L	<0.50 U	< 0.50 U	< 0.46 U	< 0.43 U	<0.72 U	< 0.68 U	< 0.72 U
10:2 FTS	--	--	--	ng/L	<0.67 U	< 0.67 U	< 0.61 U	< 0.57 U	NA	NA	NA
FOSA	--	4	--	ng/L	<0.98 U	< 0.99 U	0.92 J	< 0.84 U	<0.18 U	< 0.17 U	1.0 J
NMeFOSA	--	--	--	ng/L	<0.50 U	< 0.50 U	< 0.46 U	< 0.43 U	<0.31 U	< 0.29 U	< 0.31 U
NEtFOSA	--	4	--	ng/L	<0.87 U	< 0.88 U	< 0.80 U	< 0.74 U	<0.36 U	< 0.34 U	< 0.36 U
NMeFOSAA	--	--	--	ng/L	<1.2 U	< 1.3 U	< 1.1 U	< 1.1 U	<0.28 U	< 0.27 U	< 0.28 U
NEtFOSAA	--	4	--	ng/L	<1.2 U	< 1.3 U	< 1.1 U	< 1.1 U	<0.36 U	< 0.34 U	< 0.35 U
NMeFOSE	--	--	--	ng/L	<1.4 U	< 1.4 U	< 1.3 U	< 1.2 U	<1.8 U	< 1.7 U	< 1.8 U
NEtFOSE	--	4	--	ng/L	<0.85 U	< 0.86 U	< 0.78 U	< 0.73 U	<2.0 U	< 1.9 U	< 2.0 U
PFMPA	--	--	--	ng/L	NA	NA	NA	NA	<0.15 U	< 0.15 U	< 0.15 U
PFMBA	--	--	--	ng/L	NA	NA	NA	NA	<0.21 U	< 0.20 U	< 0.21 U
NFDHA	--	--	--	ng/L	NA	NA	NA	NA	<0.58 U	< 0.55 U	< 0.58 U
HFPO-DA	10	10	10	ng/L	<1.0 U	< 1.0 U	< 0.92 U	< 0.86 U	<0.31 U	< 0.30 U	< 0.31 U
DONA	--	3000	--	ng/L	<0.50 U	< 0.50 U	< 0.46 U	< 0.43 U	<0.32 U	< 0.31 U	< 0.32 U
PFEESA	--	--	--	ng/L	NA	NA	NA	NA	<0.20 U	< 0.19 U	< 0.20 U
9Cl-PF3ONS	--	--	--	ng/L	<0.50 U	< 0.50 U	< 0.46 U	< 0.43 U	<0.47 U	< 0.44 U	< 0.47 U
11Cl-PF3OUdS	--	--	--	ng/L	<0.69 U	< 0.70 U	< 0.63 U	< 0.59 U	<0.24 U	< 0.23 U	< 0.24 U
3:3 FTCA	--	--	--	ng/L	NA	NA	NA	NA	<0.58 U	< 0.55 U	< 0.58 U
5:3 FTCA	--	--	--	ng/L	NA	NA	NA	NA	<1.4 U	< 1.3 U	< 1.4 U
7:3 FTCA	--	--	--	ng/L	NA	NA	NA	NA	<1.0 U	< 0.95 U	< 1.0 U

Table 4
Potable Well Results
Revised Long-Term Potable Well Sampling Plan
Marinette, Wisconsin

				Location	WS-096	WS-115	WS-115
				Sample ID	DUP-557 (032025)	WS-115 (060525)	DUP-559 (060525)
				Parent Sample ID	POET-6-POST (032025)		WS-115 (060525)
				Sample Event	POET	Spring 2025	Spring 2025
				Sample Date	3/20/2025	6/5/2025	6/5/2025
				Sample Type	FD	N	FD
				General Well Depth	Shallow	Shallow	Shallow
				Detailed Well Depth	27	-	-
				Source	-	-	-
Chemical Name	Wisconsin DHS Recommended Standards February 2025 (in Rulemaking/Not Yet Adopted) [1]	Health Advisory Recommendations [2]	Public/Municipal Drinking Water Standards (Not Applicable to Private Wells) [3]	Unit			
PFBA	--	10000	--	ng/L	< 0.28 U	<0.29 U	<0.31 U
PFPeA	--	--	--	ng/L	< 0.17 U	<0.18 U	<0.20 U
PFHxA	--	150000	--	ng/L	< 0.20 U	<0.21 U	<0.23 U
PFHpA	--	--	--	ng/L	< 0.26 U	<0.27 U	<0.29 U
PFOA	4	4	4	ng/L	< 0.29 U	<0.30 U	<0.33 U
PFNA	10	10	10	ng/L	< 0.34 U	<0.35 U	<0.38 U
PFDA	--	300	--	ng/L	< 0.33 U	<0.34 U	<0.37 U
PFUnA	--	3000	--	ng/L	< 0.17 U	<0.18 U	<0.19 U
PFDoA	--	500	--	ng/L	< 0.41 U	<0.43 U	<0.47 U
PFTriA	--	--	--	ng/L	< 0.43 U	<0.45 U	<0.49 U
PFTeA	--	10000	--	ng/L	< 0.60 U	<0.63 U	<0.68 U
PFHxDA	--	--	--	ng/L	NA	NA	NA
PFODA	--	400000	--	ng/L	NA	NA	NA
PFBS	2000	2000	2,000	ng/L	< 0.21 U	<0.22 U	<0.24 U
PFPeS	--	--	--	ng/L	< 0.16 U	<0.17 U	<0.18 U
PFHxS	10	10	10	ng/L	< 0.18 U	<0.19 U	<0.21 U
PFHpS	--	--	--	ng/L	< 0.13 U	<0.14 U	<0.15 U
PFOS	4	4	4	ng/L	< 0.21 U	<0.22 U	<0.23 U
PFNS	--	--	--	ng/L	< 0.23 U	<0.24 U	<0.26 U
PFDS	--	--	--	ng/L	< 0.23 U	<0.24 U	<0.26 U
PFDoS	--	--	--	ng/L	< 0.39 U	<0.41 U	<0.45 U
4:2 FTS	--	--	--	ng/L	< 0.33 U	<0.34 U	<0.37 U
6:2 FTS	--	--	--	ng/L	< 0.30 U	<0.32 U	<0.34 U
8:2 FTS	--	--	--	ng/L	< 0.67 U	<0.70 U	<0.75 U
10:2 FTS	--	--	--	ng/L	NA	NA	NA
FOSA	--	4	--	ng/L	< 0.17 U	<0.18 U	<0.19 U
NMeFOSA	--	--	--	ng/L	< 0.29 U	<0.30 U	<0.32 U
NEtFOSA	--	4	--	ng/L	< 0.33 U	<0.35 U	<0.37 U
NMeFOSAA	--	--	--	ng/L	< 0.26 U	0.29 J	<0.29 U
NEtFOSAA	--	4	--	ng/L	< 0.33 U	<0.34 U	<0.37 U
NMeFOSE	--	--	--	ng/L	< 1.7 U	<1.8 U	<1.9 U
NEtFOSE	--	4	--	ng/L	< 1.8 U	<1.9 U	<2.0 U
PFMPA	--	--	--	ng/L	< 0.14 U	<0.15 U	<0.16 U
PFMBA	--	--	--	ng/L	< 0.19 U	<0.20 U	<0.22 U
NFDHA	--	--	--	ng/L	< 0.54 U	<0.56 U	<0.61 U
HFPO-DA	10	10	10	ng/L	< 0.29 U	<0.30 U	<0.33 UJ
DONA	--	3000	--	ng/L	< 0.30 U	<0.31 U	<0.34 U
PFEESA	--	--	--	ng/L	< 0.19 U	<0.19 U	<0.21 U
9Cl-PF3ONS	--	--	--	ng/L	< 0.43 U	<0.45 U	<0.49 U
11Cl-PF3OUdS	--	--	--	ng/L	< 0.22 U	<0.23 U	<0.25 U
3:3 FTCA	--	--	--	ng/L	< 0.54 U	<0.56 U	<0.61 U
5:3 FTCA	--	--	--	ng/L	< 1.3 U	<1.3 U	<1.4 U
7:3 FTCA	--	--	--	ng/L	< 0.93 U	<0.97 U	<1.0 U

Table 4
Potable Well Results
Revised Long-Term Potable Well Sampling Plan
Marinette, Wisconsin

Notes:

< = Compound not detected at method detection limit.

[1] = In February 2025, Wisconsin DHS recommended individual groundwater standards of 4 nanograms per liter (ng/L) for PFOA and PFOS, 10 ng/L for perfluorohexanesulfonic acid (PFHxS), perfluorononanoic acid (PFNA), and hexafluoropropylene oxide dimer acid (HFPO-DA), and 2,000 ng/L for perfluorobutanesulfonic acid (PFBS). Following the February 2025 WDHS recommendation, the WDNR Secretary and the Governor signed the WDNR scope statement and the WDNR has initiated the rulemaking process for these proposed groundwater standards.

[2] = Health Advisories issued by WDHS are recommendations; they are not properly promulgated and enforceable standards. In 2025, WDHS established individual drinking water health advisories for FOSA, NEtFOSA, NEtFOSAA, and NEtFOSE. Previously, WDHS established health advisories for PFDA, PFDoA, PFBS, DONA, PFUnA, PFBA, PFTeA, PFHxA, and PFODA.

[3] = In 2024, the US EPA established individual Maximum Contaminant Levels in drinking water for a number of substances, including PFOA, PFOS, PFHxS, PFNA, and HFPO-DA; and for mixtures containing two or more of PFHxS, PFNA, HFPO-DA and PFBS calculated as a Hazard Index. These standards do not apply to private drinking water wells. U.S. EPA has announced its intent to rescind the regulations and reconsider the regulatory determinations for PFHxS, PFNA, and HFPO-DA; and for mixtures containing two or more of PFHxS, PFNA, HFPO-DA and PFBS calculated as a Hazard Index.

-- = 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 = 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.
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:

PFBA = Perfluorobutanoic acid
PFPeA = Perfluoropentanoic acid
PFHxA = Perfluorohexanoic acid
PFHpA = Perfluoroheptanoic acid
PFOA = Perfluorooctanoic acid
PFNA = Perfluorononanoic acid
PFDA = Perfluorodecanoic acid
PFUnA = Perfluoroundecanoic acid
PFDoA = Perfluorododecanoic acid
PFTriA = Perfluorotridecanoic acid
PFTeA = Perfluorotetradecanoic acid
PFHxDA = Perfluorohexadecanoic acid
PFODA = Perfluorooctadecanoic acid
PFBS = Perfluorobutanesulfonic acid
PFPeS = Perfluoropentanesulfonic acid
PFHxS = Perfluorohexanesulfonic acid
PFHpS = Perfluoroheptanesulfonic acid
PFOS = Perfluorooctanesulfonic acid
PFNS = Perfluorononanesulfonic acid
PFDS = Perfluorodecanesulfonic acid
PFDoS = Perfluorododecanesulfonic acid
4:2 FTS = 4:2 Fluorotelomer sulfonic acid
6:2 FTS = 6:2 Fluorotelomer sulfonic acid
8:2 FTS = 8:2 Fluorotelomer sulfonic acid
10:2 FTS = 10:2 Fluorotelomer sulfonic acid
FOSA = Perfluorooctane sulfonamide
NMeFOSA = N-Methyl perfluorooctane sulfonamide
NEtFOSA = N-Ethyl perfluorooctane sulfonamide
NMeFOSAA = N-Methyl perfluorooctane sulfonamidoacetic acid
NEtFOSAA = N-Ethyl perfluorooctane sulfonamidoacetic acid
NMeFOSE = N-Methyl perfluorooctane sulfonamidoethanol
NEtFOSE = N-Ethyl perfluorooctane sulfonamidoethanol
PFMPA = Perfluoro-3-methoxypropanoic acid
PFMBA = Perfluoro-4-methoxybutanoic acid
NFDHA = Nonafluoro-3,6-dioxaheptanoic acid
HFPO-DA = Hexafluoropropylene oxide dimer acid
DONA = 4,8-Dioxa-3H-perfluorononanoic acid
PFEESA = Perfluoro(2-ethoxyethane)sulfonic acid
9Cl-PF3ONS = 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
11Cl-PF3OUdS = 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
3:3 FTCA = 3-Perfluoropropyl propanoic acid
5:3 FTCA = 2H,2H,3H,3H-Perfluorooctanoic acid
7:3 FTCA = 3-Perfluoroheptyl propanoic acid

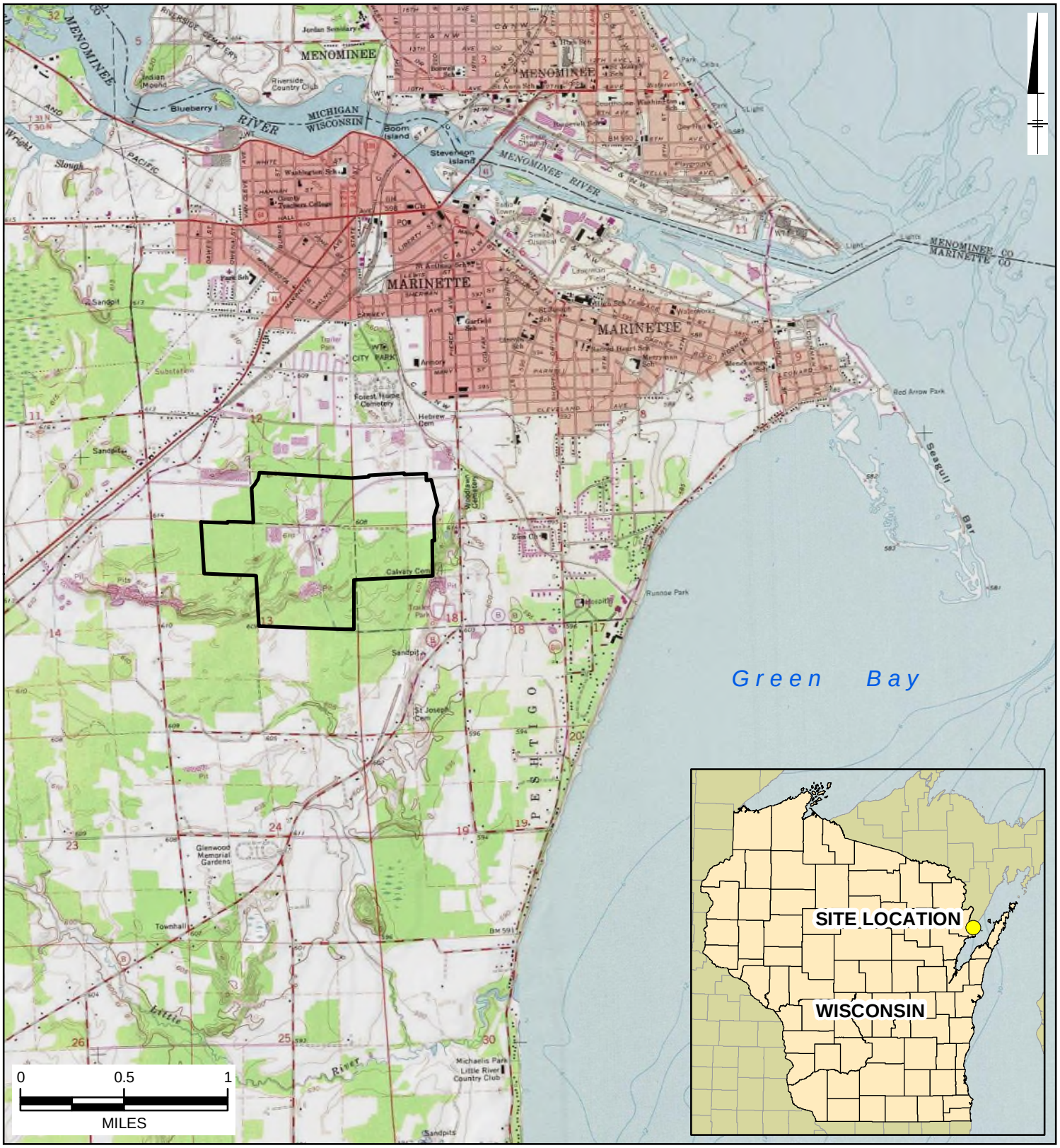
Table 5
Well Associations
Revised Long-Term Potable Well Sampling Plan
Marinette, Wisconsin

Well Identifier	Approx Well Depth (ft)	Current Interim Action	Well Category[3]
PZ-85-69 (Madsen Rd Area A)	**69**		**ND**
WS-110A	88	Bottled Water	MDL < RL
PZ-33-105 (Shore Dr Area B)	**105**		**RL < T3**
WS-033	125	Bottled Water	RL < T3
WS-040	124	Bottled Water	RL < T3
WS-149	Unknown[2]	Bottled Water	>T3
PZ-76-34 (Oakwood Beach Area C)	**34**		**>T3**
WS-048	20 [1]	Bottled Water	>T3
New Well (Oakwood Beach Area D)	**TBD**		**NA**
WS-014	264	Bottled Water	MDL < RL
WS-017	120	POET, Bottled Water	>T3
WS-042	110	POET, Bottled Water	>T3
WS-061A	124	Bottled Water	ND
WS-085	118	Bottled Water	MDL < RL
WS-145	124	Bottled Water	>T3
PZ-74-80 (Oakwood Beach Area D)	**80**		**>T3**
WS-009	62	POET, Bottled Water	>T3
WS-026	Unknown[2]	None[4]	MDL < RL
WS-041	Unknown[2]	POET, Bottled Water	>T3
PZ-74-32 (Oakwood Beach Area D)	**32**		**RL < T3**
WS-018	26-28[1]	POET, Bottled Water	>T3
WS-025	30-40[1]	POET, Bottled Water	>T3
WS-061B	Unknown[1]	POET, Bottled Water	>T3
New Well (Area E)	**TBD**		**NA**
WS-075	80-100[1]	Bottled Water	ND
WS-084	122	Bottled Water	ND
WS-115	Unknown[1]	POET	MDL < RL
New Well (Area F)	**TBD**		**NA**
WS-152	28 [1]	POET	>T3
New Well (Area F)	**TBD**		**NA**
WS-155	120	Bottled Water	MDL < RL
PZ-73-75 (Stanley Ln Area G)	**75**		**ND**
WS-015	82	Bottled Water	>T3
WS-107	109	None; Declined by Owner	RL < T3

Notes:
[1] = Well depth approximate and/or sand point.
[2] = Drilled well of unknown depth.
[3] = Based on WDNR recommended criteria.
[4] = Bottled water service terminated in 2018 after well tested non-detect for PFAS.

Acronyms and Abbreviations:
ft = feet
NA = not analyzed
ND = not detected
ID = identification
TBD = to be determined
RL = reporting limit
T3 = Table 3 Summary of Recommended Standards

Figures



LEGEND:

APPROXIMATE SITE PROPERTY BOUNDARY

NOTES:

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

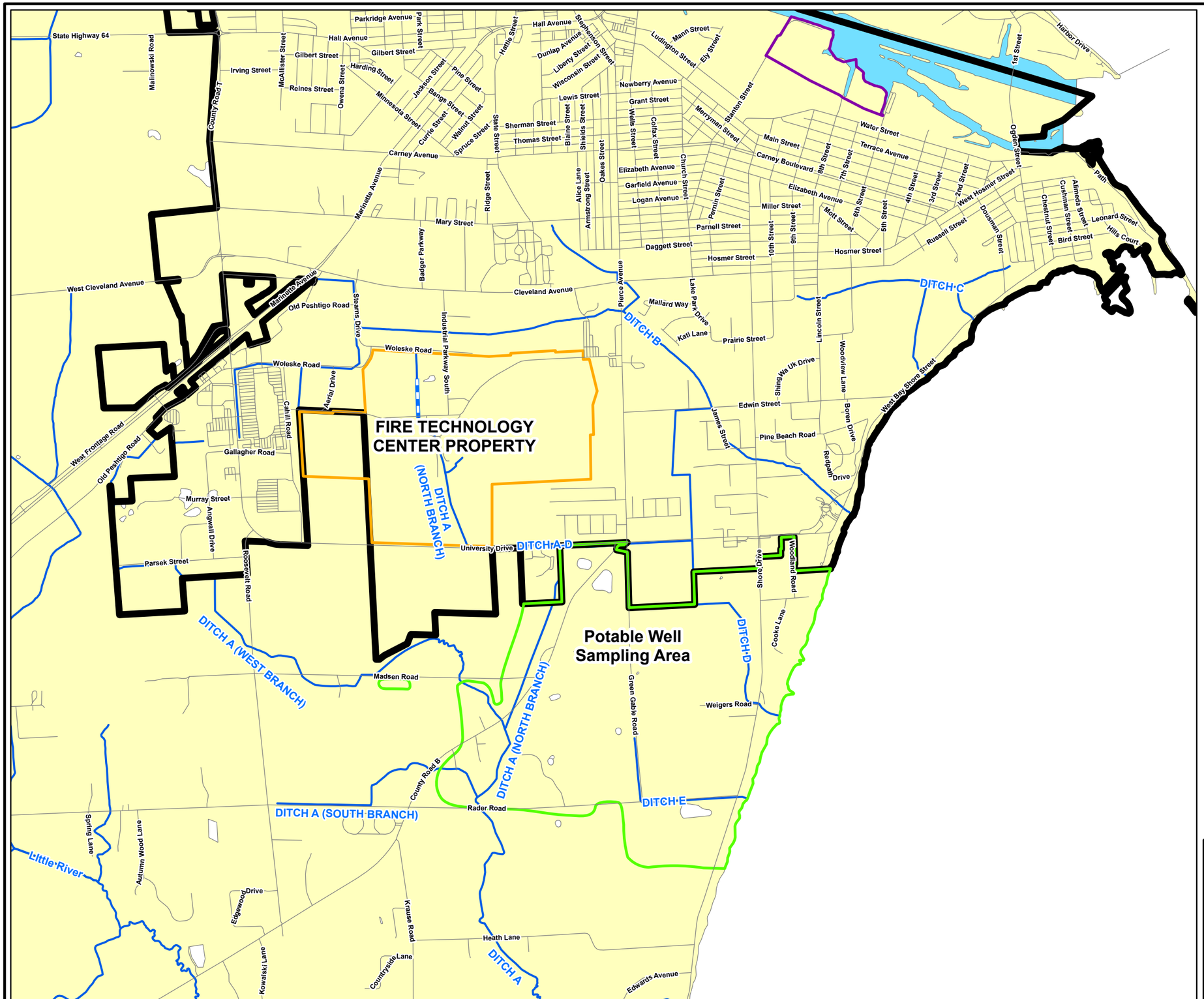
TYCO FIRE PRODUCTS LP
MARINETTE, WISCONSIN

SITE LOCATION

ARCADIS

FIGURE
1

T:_ENV\TYCO\MXD\ETC\SIW\PEio1_SiteLocation.mxd 1/13/2022 4:21:51 PM Last Saved By: MEstifanos



LEGEND:

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

0 2,000 4,000

SCALE IN FEET

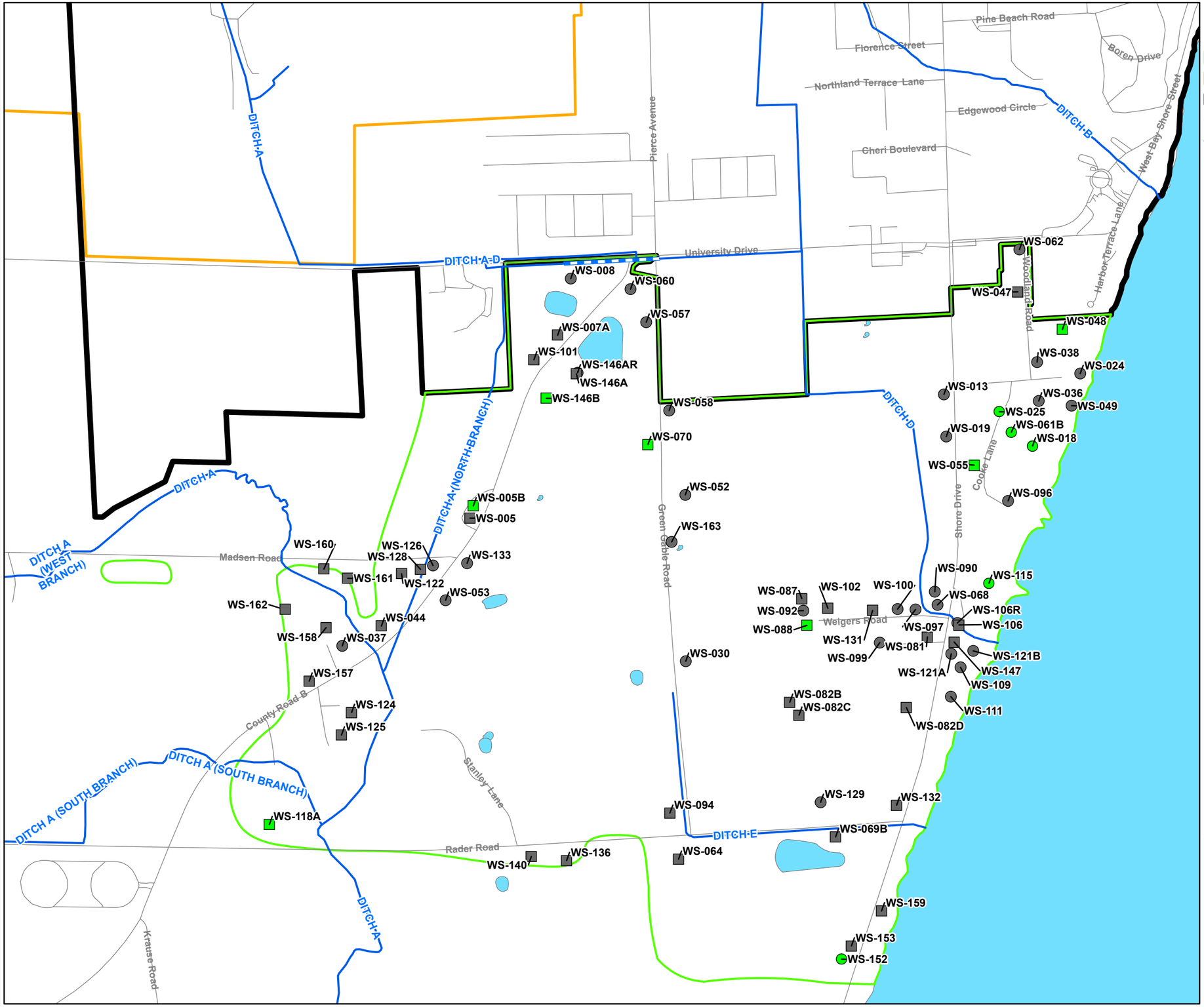
TYCO FIRE PRODUCTS LP
MARINETTE, WISCONSIN

POTABLE WELL SAMPLING AREA

ARCADIS

FIGURE
2

T:_ENVITYCO_PRO_REPORT_FIGURES\FTC\Comprehensive_Alternative_Water_Management_Plan_V2\Comprehensive_Alternative_Water_Management_Plan.aprx Figure4_PotableWell_SamplingArea 3/19/2024 11:30 AM



LEGEND:

- POTABLE WELL SAMPLING AREA
- APPROXIMATE SITE PROPERTY BOUNDARY
- APPROXIMATE MARINETTE CITY BOUNDARY
- ROAD
- DITCH OR STREAM
- CULVERT
- POTABLE WELL LOCATION WITH POET SYSTEM INSTALLED
- POTABLE WELL LOCATION
- ABANDONED POTABLE WELL LOCATION WITH POET SYSTEM REMOVED
- ABANDONED POTABLE WELL LOCATION

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.

0 900 1,800

SCALE IN FEET

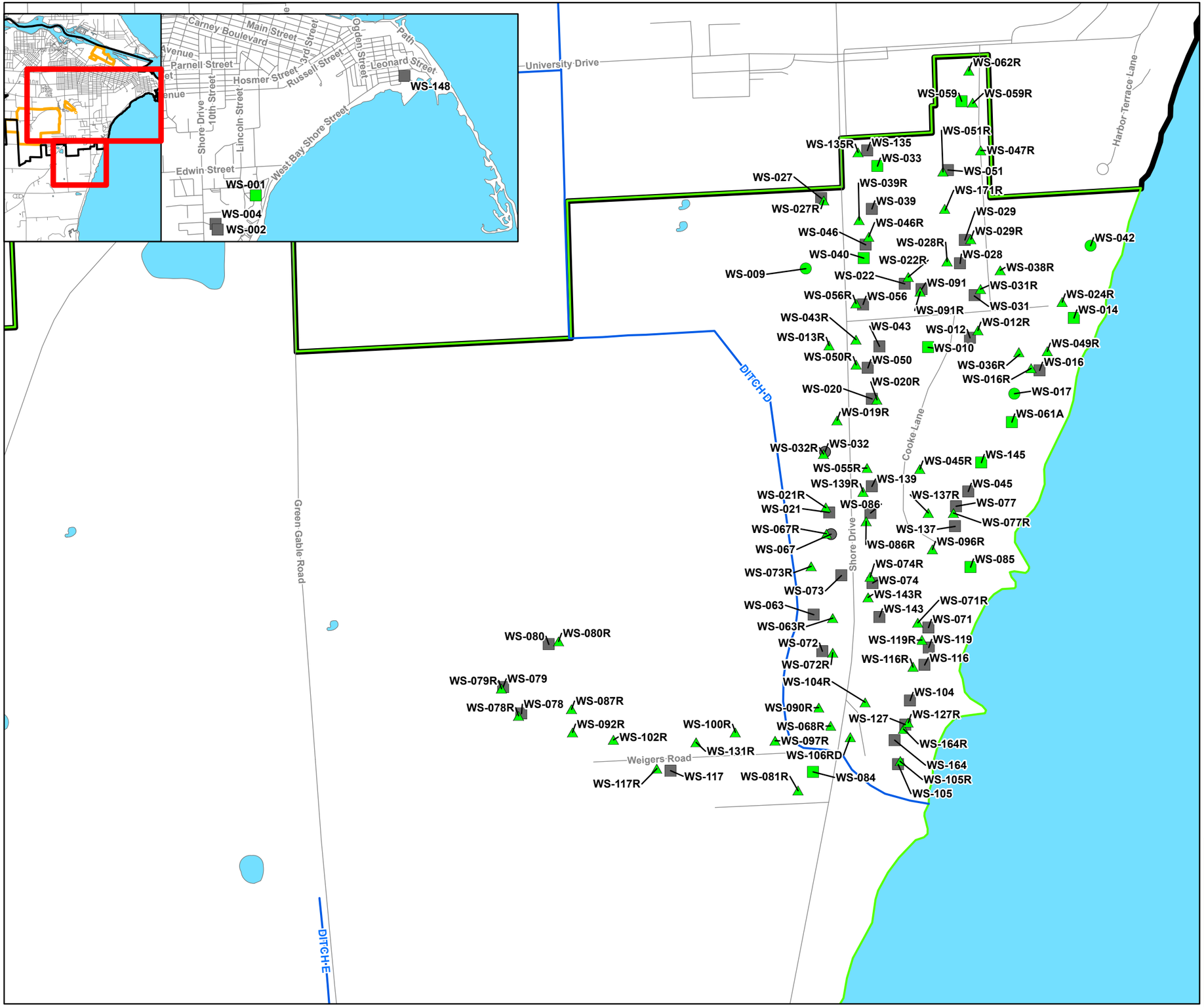
TYCO FIRE PRODUCTS LP
MARINETTE, WISCONSIN

POTABLE WELL LOCATIONS - SAND POINT WELLS < 37 FEET

ARCADIS

FIGURE 3

T:_ENV\TYCO_PRO_REPORT_FIGURES\FTC\RevisedLT_PWSP_V7\RevisedLT_PWSP_V7\RevisedLT_PWSP_V11.aprx Figure3_PotableWell_Shallow_V11 12/5/2025 11:31 AM



LEGEND:

- POTABLE WELL SAMPLING AREA
- APPROXIMATE SITE PROPERTY BOUNDARY
- APPROXIMATE MARINETTE CITY BOUNDARY
- ROAD
- DITCH OR STREAM
- CULVERT
- POTABLE WELL LOCATION WITH POET SYSTEM INSTALLED
- POTABLE WELL LOCATION
- DEEP REPLACEMENT POTABLE WELL LOCATION
- ABANDONED POTABLE WELL LOCATION WITH POET SYSTEM REMOVED
- ABANDONED POTABLE WELL LOCATION

NOTES:

1. WELL LOCATIONS ARE APPROXIMATE.
2. ALL WELLS ARE DRILLED WELLS.

0 480 960

SCALE IN FEET

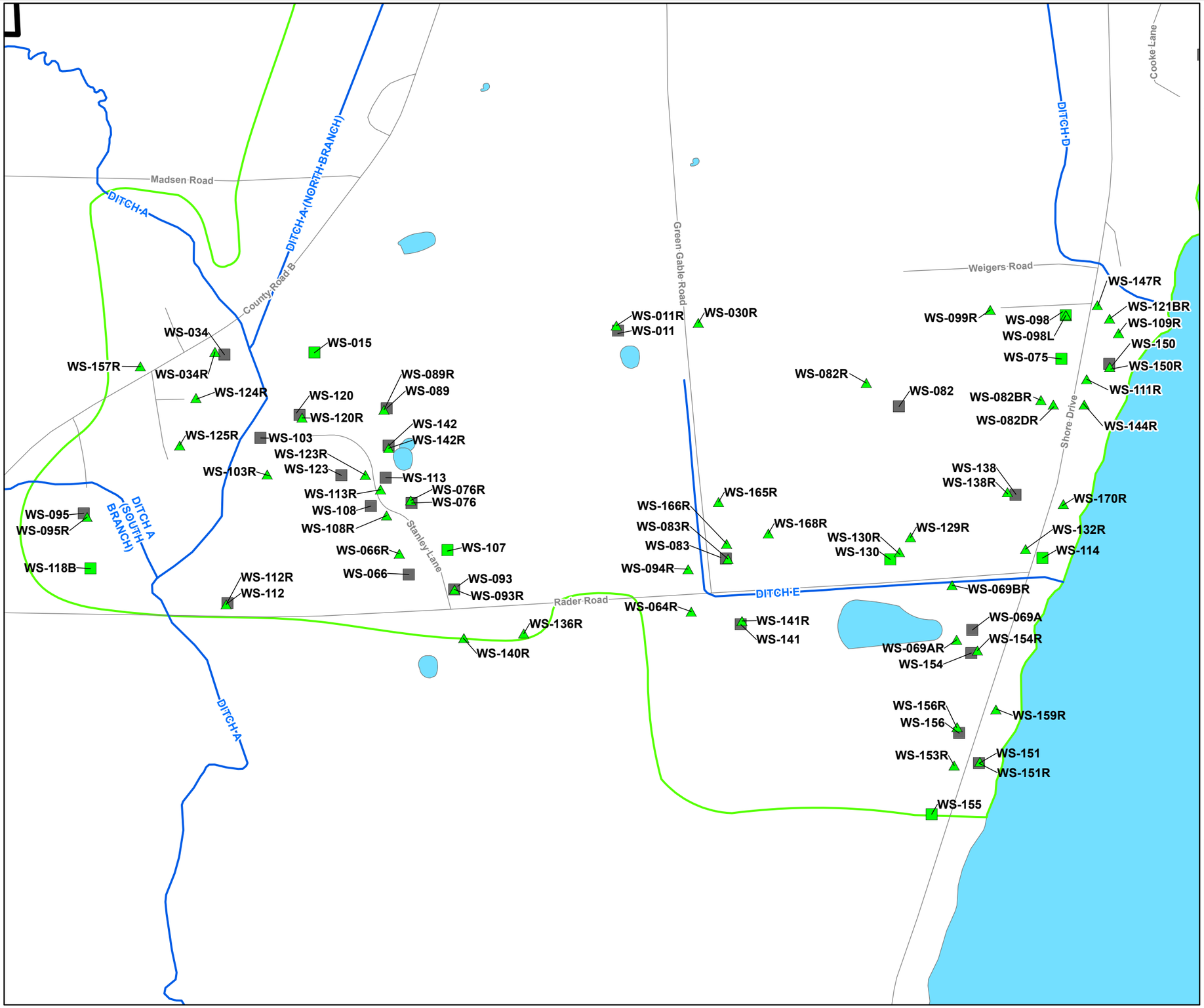
TYCO FIRE PRODUCTS LP
MARINETTE, WISCONSIN

POTABLE WELL LOCATIONS - NORTH
DRILLED WELLS > 37 FEET

ARCADIS

FIGURE
4A

T:_ENV\TYCO_PRO_REPORT_FIGURES\FTC\RevisedLT_PWSP_V7\RevisedLT_PWSP_V7\RevisedLT_PWSP_V11.aprx Figure4A_PotableWell_Deep_North_V11 12/4/2025 10:06 PM



LEGEND:

- POTABLE WELL SAMPLING AREA
- APPROXIMATE SITE PROPERTY BOUNDARY
- APPROXIMATE MARINETTE CITY BOUNDARY
- ROAD
- DITCH OR STREAM
- CULVERT
- POTABLE WELL LOCATION
- DEEP REPLACEMENT POTABLE WELL LOCATION
- ABANDONED POTABLE WELL LOCATION

NOTES:

1. WELL LOCATIONS ARE APPROXIMATE.
2. ALL WELLS ARE DRILLED WELLS.
3. WS-130 CONVERTED TO GEOTHERMAL WELL ON SEPTEMBER 22, 2025.

0 600 1,200

SCALE IN FEET

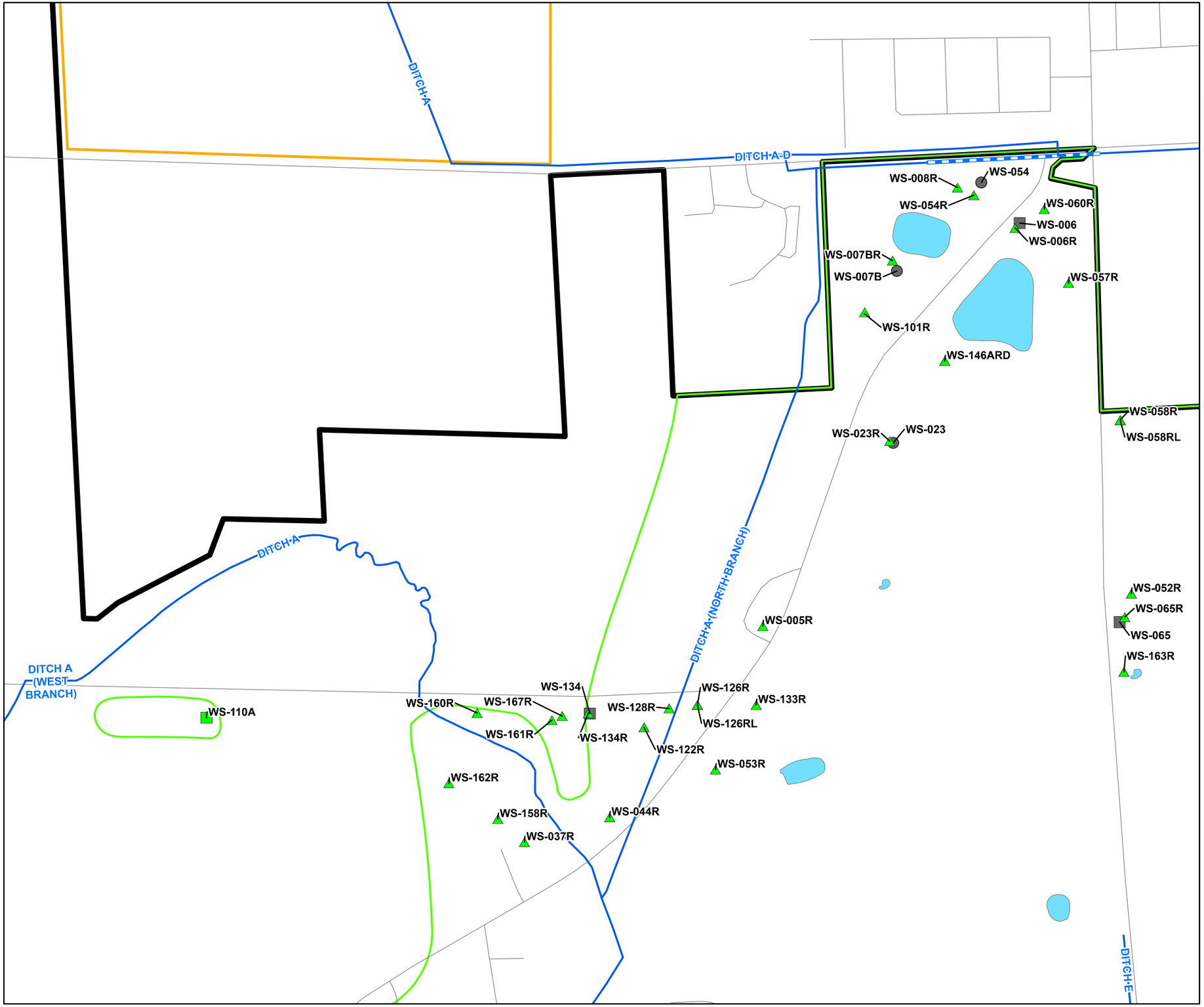
TYCO FIRE PRODUCTS LP
MARINETTE, WISCONSIN

POTABLE WELL LOCATIONS - SOUTH DRILLED WELLS > 37 FEET

ARCADIS

FIGURE
4B

T:_ENV\TYCO_PRO_REPORT_FIGURES\FTC\RevisedLT_PWSP_V7\RevisedLT_PWSP_V7\RevisedLT_PWSP_V11.aprx Figure4B_PotableWell_Deep_South_V11 12/5/2025 11:31 AM



LEGEND:

- POTABLE WELL SAMPLING AREA
- APPROXIMATE SITE PROPERTY BOUNDARY
- APPROXIMATE MARINETTE CITY BOUNDARY
- ROAD
- DITCH OR STREAM
- CULVERT
- POTABLE WELL LOCATION
- DEEP REPLACEMENT POTABLE WELL LOCATION
- ABANDONED POTABLE WELL LOCATION WITH POET SYSTEM REMOVED
- ABANDONED POTABLE WELL LOCATION

NOTES:

1. WELL LOCATIONS ARE APPROXIMATE.
2. ALL WELLS ARE DRILLED WELLS.

0 500 1,000

SCALE IN FEET

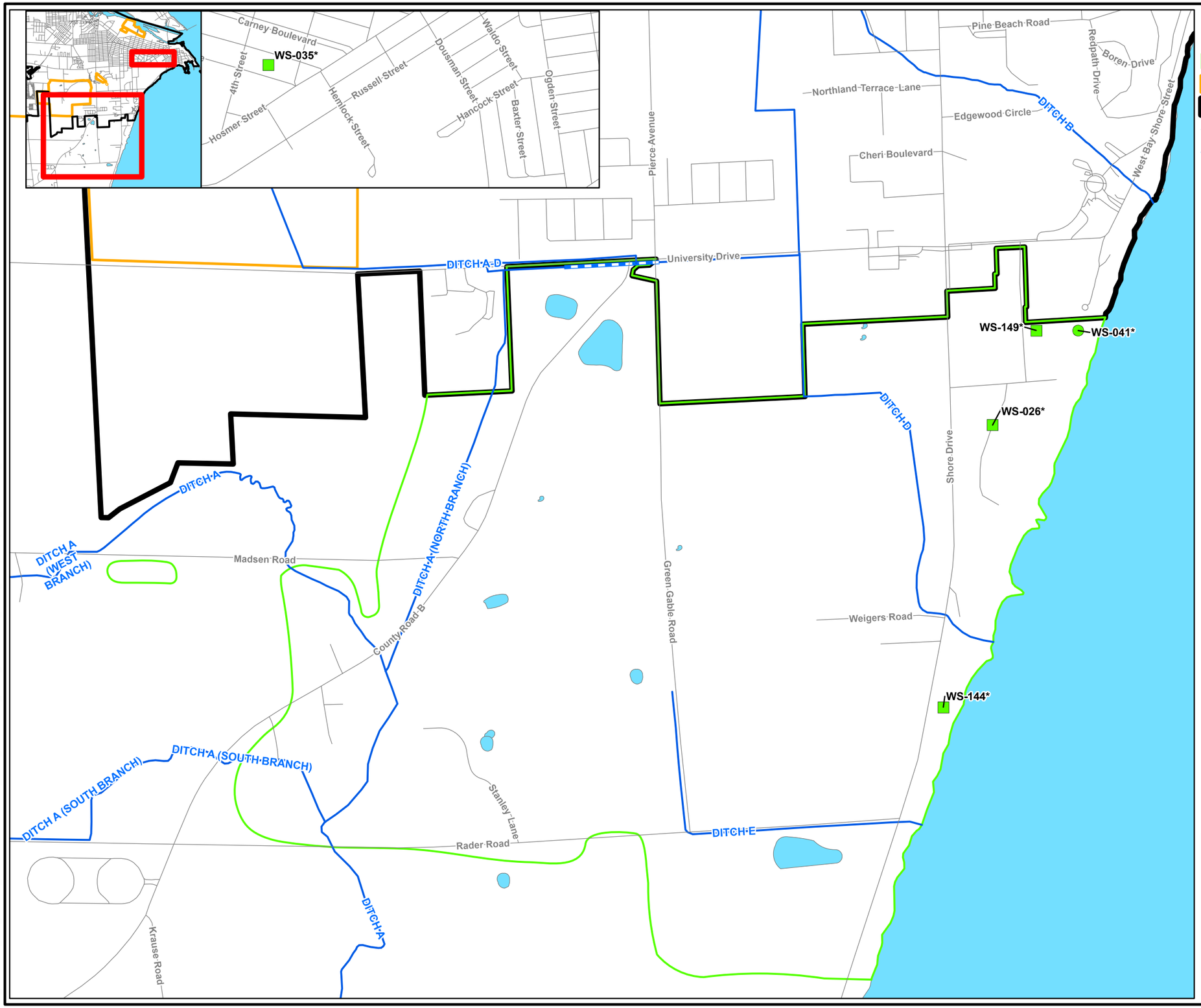
TYCO FIRE PRODUCTS LP
MARINETTE, WISCONSIN

POTABLE WELL LOCATIONS - WEST DRILLED WELLS > 37 FEET

ARCADIS

FIGURE
4C

T:_ENV\TYCO_PRO_REPORT_FIGURES\FTC\RevisedLT_PWSP_V7\RevisedLT_PWSP_V7\RevisedLT_PWSP_V11.aprx Figure4C_PotableWell_Deep_West_V11 10/10/2025 9:26 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

NOTES:

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

0 900 1,800

SCALE IN FEET

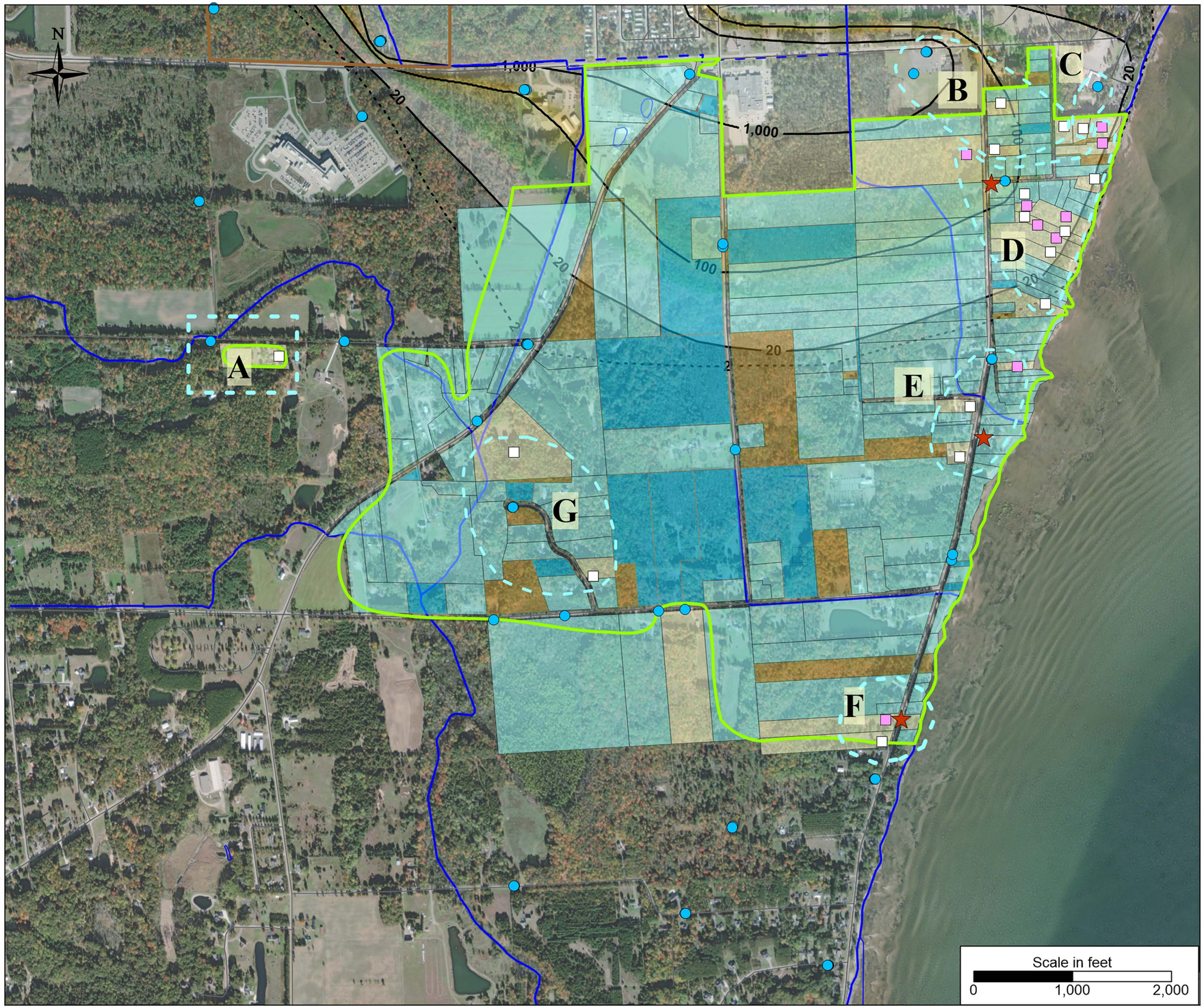
TYCO FIRE PRODUCTS LP
MARINETTE, WISCONSIN

POTABLE WELL LOCATIONS - UNKNOWN WELL DEPTHS

ARCADIS

FIGURE 5

T:_ENV\TYCO_PRO_REPORT_FIGURES\FTC\RevisedLT_PWSP_V7\RevisedLT_PWSP_V7\RevisedLT_PWSP_V11.aprx Figure5_PotableWell_UnknowDepth_V11 10/10/2025 10:25 AM



PFOA Concentration (ng/L)

20,000
10,000
5,000
2,000
1,000
500
200
100
50
20

Legend

- PWSA Outline
- Ditches/Streams
- Monitoring Well
- Proposed Monitoring Well(s)
- Accepted - Developed
- Accepted - Undeveloped
- Not Accepted - Developed
- Not Accepted - Undeveloped
- Private well with a POET
- Private well without a POET

Notes

1. Shaded areas are the property boundaries in the PWSA. Blue properties have deep well agreements. Yellow properties do not have deep well agreements.
2. Properties without agreements (yellow) include both developed and undeveloped properties.
3. The alphabetically labeled areas within the dashed polygons define private wells without agreements and adjacent existing and proposed monitoring wells.
4. Contours based on the most recent sampling of site monitoring wells.
5. Contours represent PFOA concentrations deeper than 37 feet below land surface.

TYCO FIRE PRODUCTS LP
MARINETTE, WISCONSIN

Existing and Proposed Overburden Monitoring Wells to Sample Groundwater Near Private Supply Wells

ARCADIS

FIGURE
6

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