

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**

April 1, 2024

Revised Long-Term Potable Well Sampling Plan

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

April 1, 2024

Prepared By:

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

Prepared For:

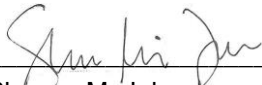
Tyco Fire Products LP
2700 Industrial Parkway South
Marinette, Wisconsin 54143

Our Ref:

30203152



Lisa M. Rutkowski
Senior Environmental Scientist



Shauna M. Johnson
Certified Project Manager



Scott T. Potter, PhD
Chief Hydrogeologist

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Version Control

Revision No.	Date Issued	Page No.	Description
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

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Acronyms and Abbreviations

Arcadis	Arcadis U.S., Inc.
COC	chain-of-custody
FTC	Fire Technology Center
GAC	Granular Activated Carbon
HDPE	high-density polyethylene
ID	identification
JCI	Johnson Controls, Inc.
PFAS	per- and polyfluoroalkyl substances
PFOA	perfluorooctanoic acid
PFOS	perfluorooctanesulfonic acid
POET	point of entry treatment
PTFE	polytetrafluoroethylene
PWSA	potable well sampling area
RL	reporting limit
TOC	total organic carbon
Tyco	Tyco Fire Products LP
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) has 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).¹ This sampling plan outlines the activities that Tyco is performing to eliminate the primary potential exposure pathway (drinking water) for per- and polyfluoroalkyl substances (PFAS) in the potable well sampling area (PWSA) (as defined herein).

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 is offered, regardless of the results of any sampling results from the potable well.

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 private replacement deep bedrock drinking water well (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.

Third, Tyco is installing Replacement Wells in the PWSA. Tyco will continue to sample the previously existing potable wells that have been sampled in the PWSA, at the frequency previously used, until the Replacement Wells are installed for a parcel.² At the time of installation, Tyco will sample the Replacement Well to confirm that the drinking water meets drinking water limits that apply to municipal drinking water in Marinette. The results will also be evaluated against the Wisconsin Department of Health Services (WDHS) current recommended standards for PFAS in groundwater. Thereafter, Tyco will sample the Replacement Wells quarterly for 1 year to confirm that there is no PFAS above recommended groundwater standards and that the systems installed are successfully treating naturally occurring elements in the water. Tyco will also continue to conduct sampling of groundwater wells in the PWSA pursuant to an approved Groundwater Monitoring Plan. If one of the deep bedrock long-term groundwater monitoring wells located near a 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 to determine appropriate next steps for ensuring safe drinking water.

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.

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 Fire Products LP (Tyco), Arcadis U.S., Inc. (Arcadis) prepared this *Revised Long-Term Potable Well Sampling Plan* (sampling plan) for the Tyco Fire Technology Center (FTC) located at 2700 Industrial Parkway South in Marinette, Wisconsin. Tyco and Arcadis are conducting Site investigation and monitoring activities under the oversight of the Wisconsin Department of Natural Resources (WDNR). As requested by WDNR, this document provides an update to the Revised Long-Term Potable Well Sampling Plan (Arcadis 2023a). This sampling plan and future versions, to be submitted every 6 months, will be applicable as described herein while existing potable wells (**Table 1**) in the potable well sampling area (PWSA) are in operation. This sampling plan does not apply to any Replacement Wells because they will be subject to the provisions of the Groundwater Monitoring Program.

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) and conducts 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. The bottled water is offered, regardless of the results of any sampling results from the potable well. Bottled water will be discontinued following installation of a Replacement Well and associated treatment system, and the testing results demonstrate 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 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.

Tyco is installing Replacement Wells in the PWSA. Tyco will continue to sample the previously existing potable wells in the PWSA, at the frequency previously used, until the Replacement Well is installed for a parcel. At the time of installation, Tyco will sample the Replacement Well to confirm that the drinking water meets drinking water limits that apply to municipal drinking water in Marinette. The results will also be evaluated against (WDHS current recommended standards for PFAS in groundwater. Thereafter, Tyco will sample the Replacement Wells quarterly for 1 year to confirm that there is no PFAS above recommended groundwater standards and that the systems installed are successfully treating naturally occurring elements in the water.

Tyco will continue to monitor the extent of groundwater contamination in the PWSA through a network of monitoring wells and piezometers already in place or planned, pursuant to an approved Groundwater Monitoring Plan. If one of the deep bedrock long-term groundwater monitoring wells located near a Replacement Well detects PFAS above certain levels (addressed in more detail herein), Tyco will work in cooperation with the property owner and the WDNR to determine appropriate next steps for ensuring safe drinking water.

2 Potable Well Sampling Plan Summary

The PWSA is roughly defined to the north by University Drive, to the west by County Road B, to the south by Rader Road and to the east by the Bay of Green Bay. The PWSA is illustrated on **Figure 1**.

2.1 Bottled Water

Tyco continues to offer bottled water 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. As of the date of this report, 27 Replacement Wells have been installed. Associated with these wells, 22 customers were receiving bottled water. The five conditions of properties that received a new deep well that did not previously have bottled water service are described below:

- Users of a well declined bottled water;
- Users of a well voluntarily discontinued bottled water service in 2018;
- A new deep well was installed on a previously undeveloped property where bottled water was not needed;
- A new deep well was installed on a property that had not previously been part of the PWSA and therefore did not receive an offer of bottled water, but a deep well offer was extended to maintain continuity of the established PWSA;
- Users of a well never accepted the offer of bottled water because the well serviced a shop where the water was not consumed.

Of the 22 customers receiving bottled water prior to Replacement Well installation, service has been discontinued for 21 customers as of the date of this report. The remaining bottled water service account will be discontinued following completion of well connection, water testing, and notification.

2.2 Potable Well Sampling Program

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

The fall 2023 quarterly potable well sampling event extended through December 31, 2023. During the previous events, Arcadis sampled a total of 173 potable wells located generally to the southeast of the Site where residents rely on private wells for drinking water. The list below categorizes wells based on the highest levels detected at that location in the history of this sampling program:

- Potable wells analyzed for 36 PFAS compound list: 155
- Potable wells with results above the reporting limit (RL) for compounds in **Table 3**: 111
- Potable wells with results between the method detection limit and RL for compounds in **Table 3**: 38
- Potable wells with no detected results for compounds in **Table 3**: 24

2.3 POET Monitoring Program

POETs were previously offered via phone call and sampling results letter to every parcel owner in the PWSA where the potable well results confirmed PFAS detections. Forty-seven POET systems have been installed to date to treat groundwater used as drinking water under this program. A list of POET systems and associated status is included in **Table 2**. Currently Arcadis continues to collect POET system samples from active POETs on a regular basis to confirm the effectiveness of PFAS removal and system operations.

In the event of a confirmed detection of PFAS above WDHS current recommended groundwater standards at parcels located within the PWSA but outside the City of Marinette, a deep well will be re-offered. If the installation of a deep well is not feasible or if the schedule for installing a deep well is greater than one year, a POET may be temporarily installed. For potable wells located inside the City of Marinette, the owners are required to connect to municipal water so no POET system will be offered.

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 will allow the parcel owners to continue to own and maintain the POETs, or Tyco will 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 are 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. Those analyses indicated breakthrough varied based on water usage, concentrations of PFAS for each well, and concentration of total organic carbon (TOC). The water available or yield from a driven point well also causes variability in when breakthrough is observed. POET system PFAS monitoring data has been provided to WDNR.

3 Long-Term Sampling Plan for Existing Potable Wells

3.1 Existing Potable Wells

The frequency of sampling for existing potable wells will be consistent with those proposed in the *Eighth Revised Long-Term Potable Well Sampling Plan* (Arcadis 2023c).

The potable well sampling plan criteria were established based on data collected to date that indicate most wells in the PWSA do not have detections above the reporting limit and all wells were offered bottled water to eliminate the drinking water exposure pathway regardless of sampling results. 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.

As noted in **Section 1**, this sampling plan will be updated every six months. The next update will be provided October 1, 2024.

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 remains available to 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

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schedule in conjunction with the offer of bottled water to users of the potable wells, eliminates any potential drinking water exposure pathway.

Any POET systems with original GAC tanks that have been in operation for a year or more without exhibiting any signs of PFAS break-through will be maintained by replacing the GAC tanks once per year. POET systems with historic influent results below concentrations set forth in **Table 3** will be sampled at the effluent approximately every other year to confirm the efficacy of the selected maintenance program. POET systems with historic influent results above concentrations set forth in **Table 3** will be sampled at the effluent approximately annually to confirm the efficacy of the selected maintenance program. These samples will be collected immediately prior to the scheduled GAC tank replacement closest to the sampling schedule described above.

GAC Change Frequency	Rationale	Remaining POET Systems (as of April 1, 2024)
Annual	POET systems had non-detect concentrations at the mid-carbon and post-carbon sampling locations for more than a year.	10, 14, 16, 18, 20, 22, 25, 26, 27, 28, 29, 31, 34, 35, 38, 39, 40, 41, 42, 43, 45, 46, 47
9 months	POET systems that have shown PFAS breakthrough between 9 months and 1 year.	1
6 months	POET systems that have shown PFAS breakthrough between six months and nine months.	3, 17
As-needed	POET systems that have shown varying influent or PFAS breakthrough before six months will continue to be monitored on a quarterly basis and the GAC tanks will be replaced when breakthrough is observed. The sampling frequency may be increased or decreased based on future sampling results.	6, 8, 37
2-3 months	POET systems that have shown PFAS breakthrough before three months.	7, 19
Winterization Schedule	POET systems in operation for less than 12 months because of planned service disruption due to extended vacations or absence for the winter will be winterized and then reinstalled with new GAC upon the homeowner's return without the collection of additional samples. This also applies to properties with unplanned service disruption due to vacancy, death, or home for sale. Winterization consists of bypassing the system, removing the GAC tanks and filters, and removing residual water from the system.	11, 36

GAC Change Frequency	Rationale	Remaining POET Systems (as of April 1, 2024)
Discontinued Service (Removed Systems)	POET systems that have been removed from service due to a Replacement Well installation, or by request of the owner (as indicated by an asterisk).	2, 4, 5, 9*, 12, 13, 15, 21, 23, 24, 30, 32, 33, 44

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 systems currently. All systems in place have operated for a minimum of 12 months.

Sediment filters and UV/Quartz maintenance will continue to be changed out based on the schedule defined in Section 3.2.2.

3.2.2 Proposed POET Maintenance Schedule for New POET Systems

Tyco is now installing Replacement Wells in the PWSA. As a result, it is not anticipated that new POET systems will be installed. If they are, it will be a temporary solution and new POET systems will be monitored as noted in 3.2.1.

POET system 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.

3.2.3 Adjustments to POET Maintenance Schedules Based on Sampling Results

As described in **Section 3.2.1**, POET maintenance schedules were established based on observed breakthrough. It is reasonable to expect that there may be some instances where low levels of PFAS are detected in the POET effluent. Detections in POET effluent of less than one tenth of concentrations set forth in **Table 3** will be treated as demonstrating the effectiveness of the POET maintenance program and no changes will be made to the maintenance plan.

Detections in POET effluent greater than one tenth of concentrations set forth in **Table 3** will adjust the GAC changeout maintenance frequency to one category more conservative (i.e., annual maintenance will move to 9 months, 9 months will move to 6 months, or 6 months will move to quarterly) and an effluent sample will be collected at the time of the next GAC change. After sampling confirms the effectiveness of the updated

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maintenance schedule, the POET will remain in the new maintenance category and return to the sampling schedule described in **Section 3.2.1**.

4 Sample Procedure for Existing Potable Wells and POET Systems

The sections that follow provide an overview of the potable well and POET system sample procedures.

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 2-250 milliliter 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 4°C 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 will be analyzed for the 36 PFAS compounds reportable using Method 537 Modified.

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.

5 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.

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 Annual Summary Report to document the results of the potable well and POET programs for the previous year. The next Annual Summary Report summarizing the drinking water results from April 1, 2023 through March 31, 2024 will be submitted by July 31, 2024.

6 Closing

This sampling plan presents the approach for bottled water service, sampling and maintenance of POET systems, and sampling of existing potable wells. Tyco has eliminated the primary potential exposure pathway for PFAS and will continue to work with the DNR and affected property owners.

7 References

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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.

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Arcadis 2023a. Revised Long-Term Potable Well Sampling Plan. Tyco Fire Technology Center, 2700 Industrial Parkway South, Marinette, Wisconsin 54143. BRRTS# 02-38-580694. Revision 7. April 3, 2023.

Arcadis 2023b. Potable Well Sampling Program Annual Summary Report – FTC Sampling Area. Tyco Fire Technology Center, 2700 Industrial Parkway, Marinette, WI 54143. BRRTS# 02-38-580694. July 31, 2023.

Arcadis 2023c. Revised Long-Term Potable Well Sampling Plan. Tyco Fire Technology Center, 2700 Industrial Parkway South, Marinette, Wisconsin 54143. BRRTS# 02-38-580694. Revision 8. October 2, 2023.

Wisconsin Department of Natural Resources. 2020. Response to Revised Long-Term Potable Well Sampling Plan. JCI/TYCO FTC (PFAS), 2700 Industrial Parkway, Marinette, WI. BRRTS Activity #02-38-580694. November 16, 2020.

Wisconsin Department of Natural Resources. 2021a. Response to 3rd Revised Long-Term Potable Well Sampling Plan. JCI/TYCO FTC (PFAS), 2700 Industrial Parkway South, Marinette, WI. BRRTS #02-38-580694. June 18, 2021.

Wisconsin Department of Natural Resources. 2021b. Response to 4th Revised Long-Term Potable Well Sampling Plan. JCI/Tyco FTC PFAS, 2700 Industrial Parkway South, Marinette, WI. BRRTS #02-38-580694. December 16, 2021.

Wisconsin Department of Natural Resources. 2021c. Response to 2020 Potable Well Sampling Program Summary Report. JCI/Tyco FTC PFAS, 2700 Industrial Parkway South, Marinette, WI. BRRTS #02-38-580694. December 16, 2021.

Wisconsin Department of Natural Resources. 2021d. Response to Private Drinking Water Well Sampling Program Annual Summary Report. JCI/Tyco FTC PFAS, 2700 Industrial Parkway South, Marinette, WI. BRRTS #02-38-580694. December 16, 2021.

Wisconsin Department of Natural Resources. 2022a. Response to 5th Revised Long-Term Potable Well Sampling Plan. JCI/Tyco FTC PFAS, 2700 Industrial Parkway South, Marinette, WI. BRRTS #02-38-580694. July 21, 2022.

Wisconsin Department of Natural Resources. 2022b. Response to Potable Well Sampling Program Annual Summary Report. JCI/Tyco FTC PFAS, 2700 Industrial Parkway South, Marinette, WI. BRRTS #02-38-580694. September 16, 2022.

Wisconsin Department of Natural Resources. 2022c. Response to 6th Revised Long-Term Potable Well Sampling Plan. JCI/Tyco FTC PFAS, 2700 Industrial Parkway South, Marinette, WI. BRRTS #02-38-580694. November 18, 2022.

Wisconsin Department of Natural Resources. 2022d. Response to Potable Well Sampling Area (PWSA), Deep Well Design Plan and Deep Aquifer Long-Term Monitoring Plan. JCI/Tyco FTC PFAS, 2700 Industrial Parkway South, Marinette, WI. BRRTS #02-38-580694. November 18, 2022.

Wisconsin Department of Natural Resources. 2023a. Response to 7th Revised Long-Term Potable Well Sampling Plan. JCI/Tyco FTC PFAS, 2700 Industrial Parkway South, Marinette, WI. BRRTS #02-38-580694. May 31, 2023

Wisconsin Department of Natural Resources. 2023b. Response to Potable Well Sampling Program Annual Summary Report. JCI/Tyco FTC PFAS, 2700 Industrial Parkway South, Marinette, WI. BRRTS #02-38-580694. September 8, 2023.

Wisconsin Department of Natural Resources. 2024. Response to 8th Revised Long-Term Potable Well Sampling Plan. JCI/Tyco FTC PFAS, 2700 Industrial Parkway South, Marinette, WI. BRRTS #02-38-580694. January 10, 2024

Tables

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

Well ID	# of Quarterly Samples Collected ⁽³⁾	Category	Sampling Frequency	Next Sampling Event	Comments
WS-001	10	RL<T3	Biennially	Spring 2025	Deep well not applicable
WS-002	2	ND	N/A	Well no longer in use	Deep well not applicable
WS-004	1	ND	N/A	Well no longer in use	Deep well not applicable
WS-005	12	RL<T3	Biennially	Winter 2025	Accepted deep well
WS-005B	2	MDL<RL	N/A	Not a drinking water well	Deep well not applicable
WS-006	4	RL<T3	Biennially	Winter 2024	Deep well pending
WS-007B ⁽¹⁾	2	>T3	Annually	Winter 2024	Deep well pending
WS-010	7	RL<T3	Biennially	Spring 2024	
WS-011	8	MDL<RL	Biennially	Winter 2024	Accepted deep well
WS-012	8	MDL<RL	Biennially	Winter 2025	Accepted deep well
WS-014	11	MDL<RL	Biennially	Winter 2026	
WS-015	5	RL<T3	Biennially	Winter 2024	
WS-016	8	MDL<RL	Biennially	Summer 2025	Accepted deep well
WS-020	9	RL<T3	Biennially	Winter 2025	Accepted deep well
WS-021	3	RL<T3	Biennially	Spring 2024	Accepted deep well
WS-022	8	ND	Biennially	Winter 2024	Accepted deep well
WS-026	10	MDL<RL	Biennially	Winter 2025	
WS-027	6	MDL<RL	Biennially	Winter 2024	Accepted deep well
WS-028	5	RL<T3	Biennially	Winter 2024	
WS-029	9	RL<T3	Biennially	Spring 2025	Accepted deep well
WS-031	11	RL<T3	Biennially	Winter 2025	Accepted deep well
WS-033	11	RL<T3	Biennially	Winter 2025	
WS-034	10	MDL<RL	N/A	Well abandoned	Deep well installed
WS-035	7	RL<T3	Biennially	Winter 2025	Deep well not applicable
WS-039	9	ND	Biennially	Spring 2025	Accepted deep well
WS-040	8	RL<T3	Biennially	Winter 2024	
WS-043	7	ND	Biennially	Winter 2024	Accepted deep well
WS-044	11	RL<T3	Biennially	Summer 2025	Accepted deep well
WS-045	11	ND	Biennially	Winter 2025	Accepted deep well
WS-046	6	RL<T3	Biennially	Summer 2025	Accepted deep well
WS-047	2	ND	Biennially	Winter 2024	Accepted deep well
WS-048 ⁽¹⁾	11	>T3	Annually	Fall 2024	
WS-050	11	RL<T3	Biennially	Winter 2025	Accepted deep well
WS-051	11	RL<T3	Biennially	Fall 2025	Accepted deep well
WS-055	8	RL<T3	Biennially	Winter 2025	Accepted deep well
WS-056	5	MDL<RL	Biennially	Winter 2024	
WS-059	6	RL<T3	Biennially	Summer 2024	
WS-061A	3	ND	Biennially	Winter 2024	
WS-063	11	RL<T3	Biennially	Summer 2025	Accepted deep well
WS-064	9	RL<T3	Biennially	Summer 2025	Accepted deep well
WS-065	10	MDL<RL	Biennially	Winter 2024	Accepted deep well
WS-066	9	RL<T3	Biennially	Winter 2026	Accepted deep well
WS-069A	9	RL<T3	Biennially	Spring 2024	
WS-069B ⁽¹⁾	9	>T3	Annually	Winter 2024	
WS-070 ⁽¹⁾	1	>T3	Annually	Winter 2024	
WS-071	8	RL<T3	Biennially	Winter 2025	Accepted deep well
WS-072	10	ND	N/A	Well abandoned	Deep well installed

Notes on Page 3.

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

Well ID	# of Quarterly Samples Collected ⁽³⁾	Category	Sampling Frequency	Next Sampling Event	Comments
WS-073	11	MDL<RL	Biennially	Winter 2025	Accepted deep well
WS-074	2	RL<T3	Biennially	Winter 2024	Accepted deep well
WS-075	11	ND	Biennially	Winter 2025	Declined deep well
WS-076	3	ND	Biennially	Winter 2024	Accepted deep well
WS-077	7	RL<T3	Biennially	Winter 2025	Accepted deep well
WS-078	12	ND	Biennially	Fall 2024	Accepted deep well
WS-079	12	RL<T3	Biennially	Fall 2024	Accepted deep well
WS-080	4	MDL<RL	Biennially	Winter 2024	Accepted deep well
WS-081	3	MDL<RL	Biennially	Winter 2024	Accepted deep well
WS-082	3	MDL<RL	Biennially	Winter 2024	
WS-082B	2	>T3	N/A	Not a drinking water well	
WS-082C	2	>T3	N/A	Not a drinking water well	
WS-082D ⁽¹⁾	3	>T3	N/A	Not a drinking water well	
WS-083	7	MDL<RL	N/A	Well abandoned	Deep well installed
WS-084	13	ND	Biennially	Fall 2025	Declined deep well
WS-085	9	MDL<RL	Biennially	Spring 2025	
WS-086	7	RL<T3	Biennially	Winter 2024	
WS-087	11	RL<T3	Biennially	Winter 2024	Accepted deep well
WS-088	9	MDL<RL	Biennially	Winter 2024	Accepted deep well
WS-089	5	ND	Biennially	Winter 2024	
WS-091	4	ND	Biennially	Winter 2024	Accepted deep well
WS-093	7	RL<T3	Biennially	Winter 2025	
WS-094 ⁽¹⁾	7	RL<T3	Biennially	Winter 2024	Accepted deep well
WS-095	3	ND	Biennially	Winter 2024	Accepted deep well
WS-098	6	RL<T3	Biennially	Winter 2024	
WS-101 ⁽²⁾	3	>T3	Annually	Winter 2024	
WS-102	10	RL<T3	Biennially	Summer 2025	Accepted deep well
WS-103	6	RL<T3	Biennially	Winter 2024	
WS-104	10	MDL<RL	Biennially	Winter 2025	Accepted deep well
WS-105	2	ND	Biennially	Winter 2024	
WS-107	8	RL<T3	Biennially	Summer 2025	
WS-108	10	RL<T3	Biennially	Spring 2025	Accepted deep well
WS-110A	11	MDL<RL	Biennially	Winter 2025	
WS-112	10	MDL<RL	N/A	Well abandoned	Deep well installed
WS-113	11	ND	Biennially	Winter 2025	Accepted deep well
WS-114	6	MDL<RL	Biennially	Winter 2024	Accepted deep well
WS-116	8	MDL<RL	Biennially	Winter 2024	Accepted deep well
WS-117	9	MDL<RL	Biennially	Winter 2025	Accepted deep well
WS-118A	7	RL<T3	Biennially	Summer 2025	
WS-118B	6	ND	Biennially	Summer 2025	
WS-119	11	MDL<RL	Biennially	Winter 2025	Accepted deep well
WS-120	7	RL<T3	N/A	Well abandoned	Deep well installed
WS-122	11	MDL<RL	N/A	Well abandoned	Deep well installed
WS-123	6	RL<T3	Biennially	Winter 2024	Accepted deep well
WS-124 ⁽¹⁾	6	RL<T3	Biennially	Winter 2024	Accepted deep well
WS-125	8	MDL<RL	Biennially	Winter 2025	Accepted deep well
WS-127	4	RL<T3	Biennially	Spring 2024	Accepted deep well

Notes on Page 3.

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

Well ID	# of Quarterly Samples Collected ⁽³⁾	Category	Sampling Frequency	Next Sampling Event	Comments
WS-128	4	ND	Biennially	Winter 2024	Accepted deep well
WS-130	11	MDL<RL	Biennially	Spring 2024	Declined deep well
WS-131	7	MDL<RL	Biennially	Winter 2024	Accepted deep well
WS-132	9	RL<T3	N/A	Well abandoned	Deep well installed
WS-134	6	MDL<RL	Biennially	Spring 2024	
WS-135	4	RL<T3	Biennially	Winter 2024	Accepted deep well
WS-136	7	RL<T3	Biennially	Winter 2025	
WS-137	8	RL<T3	Biennially	Spring 2024	Accepted deep well
WS-138	9	ND	Biennially	Winter 2025	
WS-139	8	MDL<RL	Biennially	Winter 2024	Accepted deep well
WS-140	5	RL<T3	Biennially	Winter 2026	Accepted deep well
WS-141	8	MDL<RL	N/A	Well abandoned	Deep well installed
WS-142	4	RL<T3	N/A	Well abandoned	Deep well installed
WS-143	7	RL<T3	Biennially	Summer 2025	Accepted deep well
WS-144	6	RL<T3	Biennially	Winter 2024	
WS-145	6	RL<T3	Biennially	Summer 2025	
WS-146B	4	>T3	N/A	Not a drinking water well	Deep well not applicable
WS-147 ⁽²⁾	3	>T3	Annually	Winter 2024	Accepted deep well
WS-148	2	ND	N/A	Abandoned by owner	Deep well not applicable
WS-149	3	RL<T3	Biennially	Winter 2024	
WS-150	3	RL<T3	Biennially	Winter 2024	
WS-151	6	RL<T3	Biennially	Summer 2025	
WS-153	8	MDL<RL	Biennially	Summer 2025	Accepted deep well
WS-154	6	ND	Biennially	Summer 2025	Accepted deep well
WS-155	3	MDL<RL	Biennially	Winter 2024	
WS-156	8	ND	Biennially	Summer 2025	
WS-157	6	RL<T3	Biennially	Winter 2024	
WS-158	3	>T3	N/A	Well abandoned	Deep well installed
WS-159 ⁽¹⁾	4	>T3	Annually	Winter 2024	Accepted deep well
WS-160	4	MDL<RL	Biennially	Winter 2024	Accepted deep well
WS-161	4	RL<T3	Biennially	Spring 2024	
WS-162	2	RL<T3	Biennially	Winter 2024	Accepted deep well
WS-164	1	MDL<RL	Biennially	Winter 2024	

Notes:

⁽¹⁾ = POET offer extended

⁽²⁾ = POET offer declined

⁽³⁾ = Number of quarterly samples collected through Fall 2023 sampling event

ID = Identification

N/A = not applicable

ND = not detected above the laboratory MDL

MDL = method detection limit

RL = reporting limit

T3 = Table 3 values

All scheduled sampling events are only applicable if the well is not replaced by a private deep well prior to the next scheduled event

Wells abandoned due to deep well replacement are removed from this sampling program

Table 2
Potable Wells in POET OM&M Program
Revised Long-Term Potable Well Sampling Plan
Marinette, Wisconsin

Well Sample ID	POET ID	Category	GAC Change Frequency	Residency Status	Next Maintenance or Sampling Event ⁽¹⁾	Date POET System Removed From Home	Comments
WS-007A	POET-43	> T3	12 months		Maintenance, April 2024		Deep well pending
WS-008	POET-7	> T3	2-3 months		Maintenance, April 2024		Deep well pending
WS-009	POET-26	RL < T3	12 months		Maintenance, April 2024		
WS-013	POET-10	RL < T3	12 months	Occasionally winterized	Maintenance, June 2024		Accepted deep well
WS-017	POET-40	RL < T3	12 months		Maintenance, July 2024		
WS-018	POET-29	> T3	12 months		Maintenance, July 2024		
WS-019	POET-5	> T3	N/A		Well abandoned	10/11/2023	Deep well installed
WS-023	POET-14	RL < T3	12 months		Maintenance, June 2024		
WS-024	POET-11	> T3	TBD	Winterized 4 months each year	Maintenance, June 2024		Accepted deep well
WS-025	POET-28	> T3	12 months		Maintenance, May 2024		
WS-030	POET-31	> T3	12 months		Maintenance, April 2024		Accepted deep well
WS-032	POET-25	MDL < RL	12 months		Maintenance, April 2024		Accepted deep well
WS-036	POET-3	> T3	6 months		Maintenance, June 2024		
WS-037	POET-32	> T3	N/A		Well abandoned	1/30/2023	Deep well installed
WS-038	POET-19	> T3	2-3 months		Maintenance, April 2024		Accepted deep well
WS-041	POET-46	RL < T3	12 months		Maintenance, April 2024		
WS-042	POET-45	RL < T3	12 months		Maintenance, April 2024		
WS-049	POET-35	RL < T3	12 months		Maintenance, May 2024		
WS-052	POET-2	> T3	9 months		Well abandoned	12/11/2023	Deep well installed
WS-053	POET-21	RL < T3	N/A		Well abandoned	6/1/2023	Deep well installed
WS-054	POET-30	> T3	N/A		Well abandoned	5/10/2023	Deep well installed
WS-057	POET-34	> T3	12 months		Maintenance, April 2024		Accepted deep well
WS-058	POET-1	> T3	9 months		Maintenance, April 2024		Accepted deep well
WS-060	POET-47	> T3	12 months		Maintenance, April 2024		Accepted deep well
WS-061B	POET-27	> T3	12 months		Maintenance, April 2024		
WS-062	POET-44	> T3	N/A		Well abandoned	10/10/2023	Deep well installed
WS-067	POET-39	RL < T3	12 months		Maintenance, April 2024		Accepted deep well
WS-068	POET-12	> T3	N/A		Well abandoned	10/17/2023	Deep well installed
WS-090	POET-4	> T3	N/A		Well abandoned	10/9/2023	Deep well installed
WS-092	POET-22	RL < T3	12 months	Occasionally winterized	Maintenance, April 2024		Accepted deep well
WS-096	POET-6	> T3	Observed breakthrough		Maintenance and Sampling, April 2024		
WS-097	POET-13	RL < T3	12 months		Well abandoned	1/25/2024	Deep well installed
WS-099	POET-15	RL < T3	12 months		Well abandoned	1/22/2024	Deep well installed
WS-100	POET-24	RL < T3	12 months		Well abandoned	1/22/2024	Deep well installed
WS-106R	POET-37	> T3	Observed breakthrough		Maintenance and Sampling, April 2024		Accepted deep well

Notes on Page 2.

Table 2
Potable Wells in POET OM&M Program
Revised Long-Term Potable Well Sampling Plan
Marinette, Wisconsin

Well Sample ID	POET ID	Category	GAC Change Frequency	Residency Status	Next Maintenance or Sampling Event ⁽¹⁾	Date POET System Removed From Home	Comments
WS-109	POET-17	> T3	6 months		Maintenance, May 2024		Accepted deep well
WS-111	POET-18	RL < T3	12 months		Maintenance, April 2024		Accepted deep well
WS-115	POET-20	MDL < RL	12 months		Maintenance, April 2024		
WS-121A	POET-16	> T3	12 months		Maintenance, April 2024		Deep well not applicable
WS-121B	POET-36	RL < T3	12 months	Occasionally winterized	Maintenance, April 2024		Accepted deep well
WS-126	POET-23	MDL < RL	N/A		Well abandoned	10/27/2023	Deep well installed
WS-129	POET-38	RL < T3	12 months		Maintenance, May 2024		Accepted deep well
WS-133	POET-33	RL < T3	N/A		Well abandoned	2/6/2023	Deep well installed
WS-146AR	POET-8	> T3	Observed breakthrough		Maintenance and Sampling, April 2024		Deep well pending
WS-152	POET-42	RL < T3	12 months		Maintenance, April 2024		
WS-163	POET-41	> T3	12 months		Maintenance, April 2024		

Notes:

⁽¹⁾ = This program is operated independent of the private drinking water well sampling program and deep well program

Effluent from POETs not sampled for 12 months are still eligible for quarterly sampling until 12 months of data has been collected

GAC = Granular Activated Carbon

ID = Identification

OM&M = Operations, Maintenance and Monitoring

POET = Point of Entry Treatment

TBD = To be determined based on additional sampling

All scheduled sampling and maintenance events are only applicable if the well is not replaced by a private deep well prior to the next scheduled event

Wells abandoned due to deep well replacement are removed from this sampling program

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

Analyte	June 2019 WDHS (Not Adopted by WDNR Board) ⁽¹⁾	November 2020 WDHS (Not Yet Proposed for Rulemaking by WDNR) ⁽²⁾	1/10th of WDHS Recommended Values	Units
PFBA	--	10,000	1,000	ng/L
PFPeA	--	--	--	ng/L
PFHxA	--	150,000	15,000	ng/L
PFHpA	--	--	--	ng/L
PFOA	20	--	2	ng/L
PFNA	--	30	3	ng/L
PFDA	--	300	30	ng/L
PFUnA	--	3,000	300	ng/L
PFDoA	--	500	50	ng/L
PFTriA	--	--	--	ng/L
PFTeA	--	10,000	1,000	ng/L
PFHxDA	--	--	--	ng/L
PFODA	--	400,000	40,000	ng/L
PFBS	--	450,000	45,000	ng/L
PFPeS	--	--	--	ng/L
PFHxS	--	40	4	ng/L
PFHpS	--	--	--	ng/L
PFOS	20	--	2	ng/L
PFNS	--	--	--	ng/L
PFDS	--	--	--	ng/L
PFDoS	--	--	--	ng/L
4:2 FTS	--	--	--	ng/L
6:2 FTS	--	--	--	ng/L
8:2 FTS	--	--	--	ng/L
10:2 FTS	--	--	--	ng/L
FOSA	--	20	2	ng/L
NMeFOSA	--	--	--	ng/L
NEtFOSA	--	20	2	ng/L
NMeFOSAA	--	--	--	ng/L
NEtFOSAA	--	20	2	ng/L
NMeFOSE	--	--	--	ng/L
NEtFOSE	--	20	2	ng/L
HFPO-DA (GenX)	--	300	30	ng/L
ADONA	--	3,000	300	ng/L
F-53B Major	--	--	--	ng/L
F-53B Minor	--	--	--	ng/L

Notes:

-- = No standard

ng/L = nanograms per liter

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

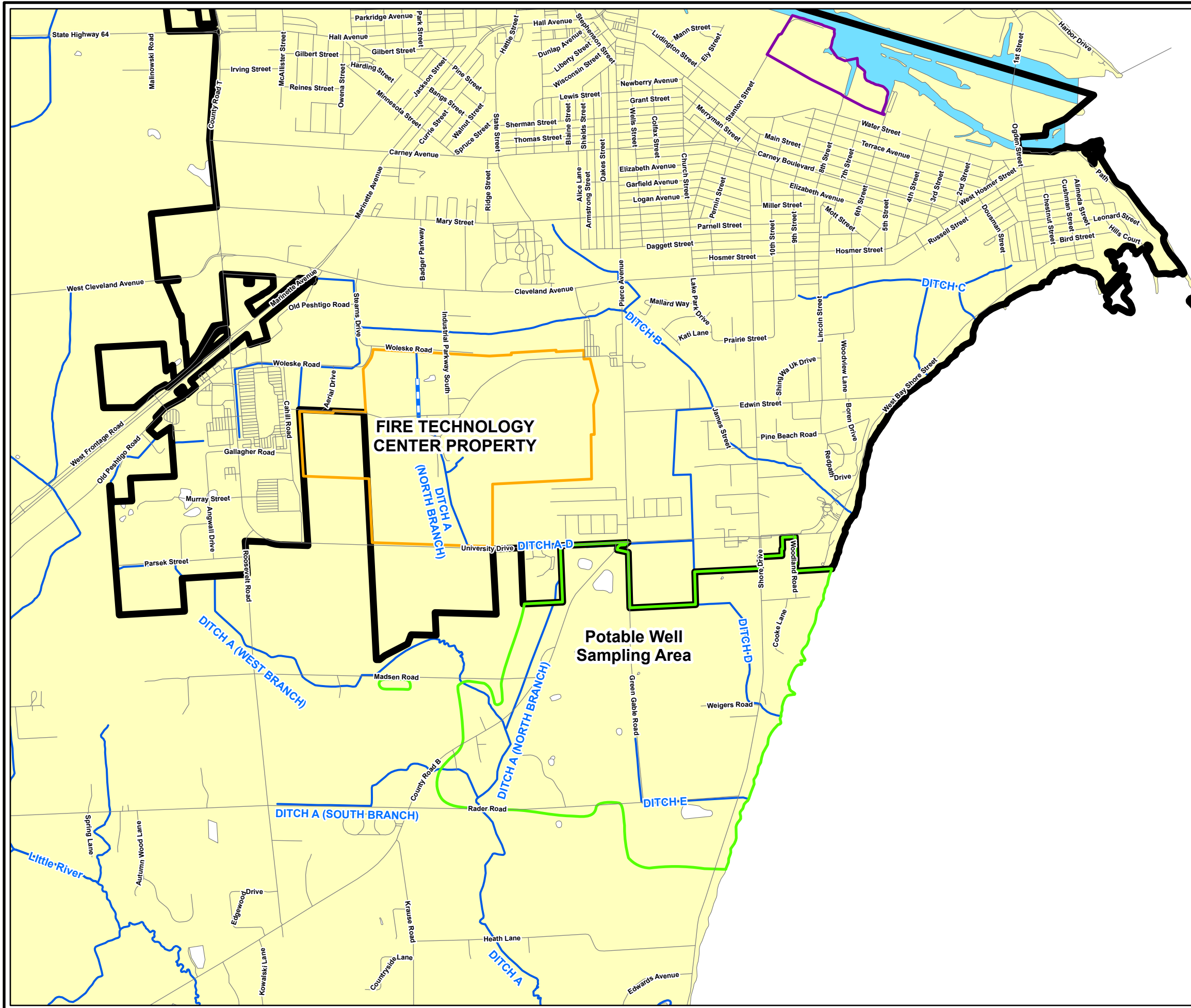
(2) = In November 2020 the Wisconsin DHS recommended a combined groundwater standard of 20 ng/L for: FOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFOS and PFOA. DHS also recommended individual standards for FOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFBS, PFHxS, PFNA, PFDA, PFDoA, PFHxA, PFTeA, PFUnA, PFBA, PFODA, DONA, and GenX. The agency's authority under the scope statement expired in September 2023. In September 2022, the Governor approved a Statement of Scope to establish groundwater standards for PFOA, PFOS, PFBS and GenX (referred to as the "Four PFAS"). The Statement of Scope was approved by the Natural Resources Board in December 2022. Pursuant to state law, the WDNR has stopped work on the proposed rule and notified the state legislature that, following economic analysis, the proposed costs would exceed statutory thresholds. As a result, the WDNR cannot continue the rulemaking without authorization from the state legislature.

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

Chemical Abbreviations:

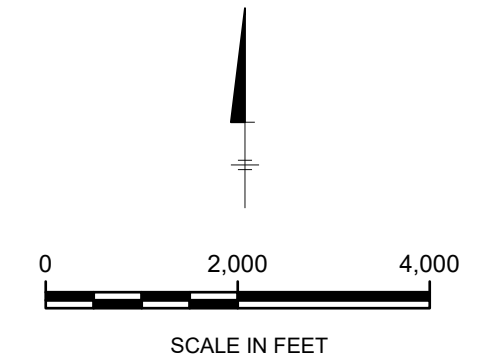
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Perfluoropentanoic acid (PFPeA)
Perfluorohexanoic acid (PFHxA)
Perfluoroheptanoic acid (PFHpA)
Perfluorooctanoic acid (PFOA)
Perfluorononanoic acid (PFNA)
Perfluorodecanoic acid (PFDA)
Perfluoroundecanoic acid (PFUnA)
Perfluorododecanoic acid (PFDoA)
Perfluorotridecanoic acid (PFTriA)
Perfluorotetradecanoic acid (PFTeA)
Perfluorohexadecanoic acid (PFHxDA)
Perfluorooctadecanoic acid (PFODA)
Perfluorobutanesulfonic acid (PFBS)
Perfluoropentanesulfonic acid (PFPeS)
Perfluorohexanesulfonic acid (PFHxS)
Perfluoroheptanesulfonic acid (PFHpS)
Perfluorooctanesulfonic acid (PFOS)
Perfluorononanesulfonic acid (PFNS)
Perfluorodecanesulfonic acid (PFDS)
Perfluorododecanesulfonic acid (PFDoS)
4:2 Fluorotelomer sulfonic acid (4:2 FTS)
6:2 Fluorotelomer sulfonic acid (6:2 FTS)
8:2 Fluorotelomer sulfonic acid (8:2 FTS)
10:2 Fluorotelomer sulfonic acid (10:2 FTS)
Perfluorooctane sulfonamide (FOSA)
N-Methyl perfluorooctane sulfonamide (NMeFOSA)
N-Ethyl perfluorooctane sulfonamide (NEtFOSA)
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)
N-Methyl perfluorooctane sulfonamidoethanol (NMeFOSE)
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)
Hexafluoropropylene oxide dimer acid (HFPO-DA or GenX)
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major)
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)

Figures



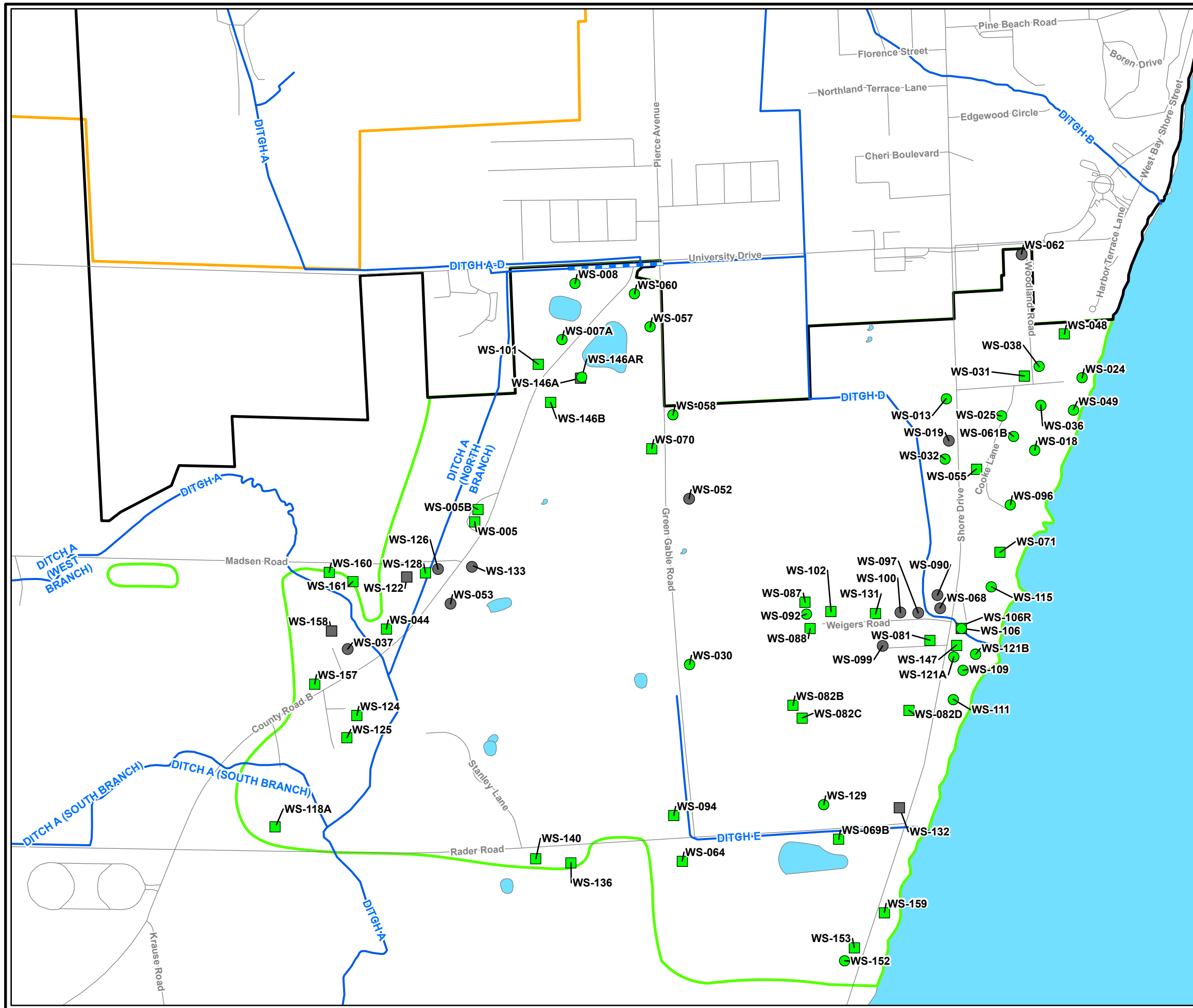
LEGEND:

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



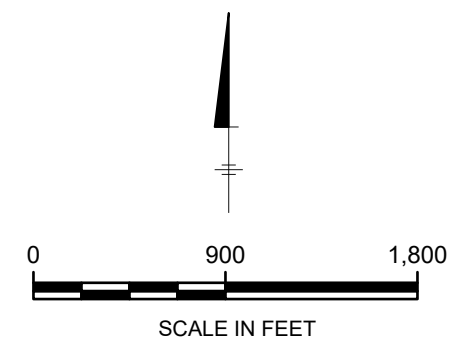
TYCO FIRE PRODUCTS LP MARINETTE, WISCONSIN	
POTABLE WELL SAMPLING AREA	
ARCADIS	FIGURE 1

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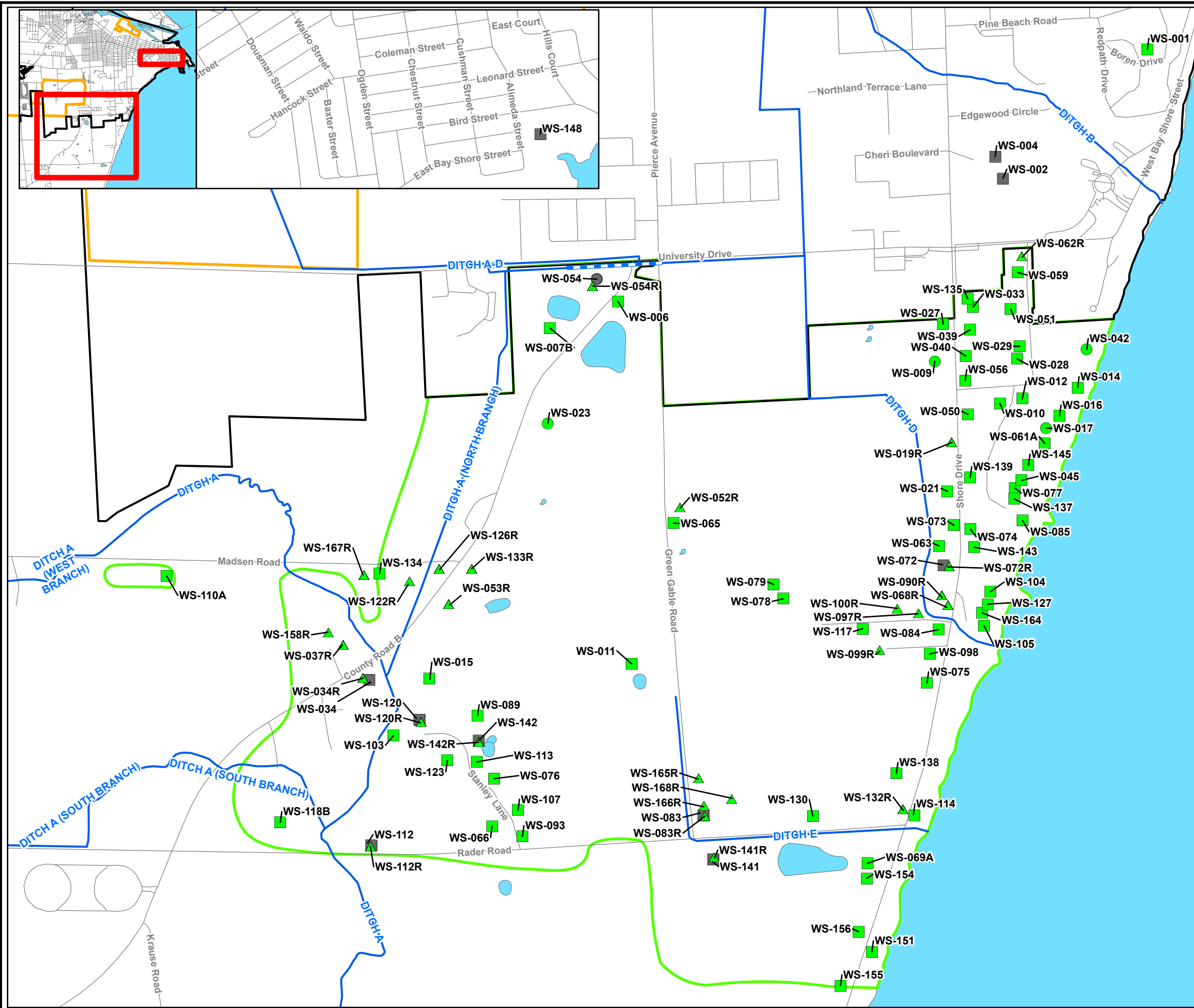
- LEGEND:**
- POTABLE WELL SAMPLING AREA
 - APPROXIMATE SITE PROPERTY BOUNDARY
 - APPROXIMATE MARINETTE CITY BOUNDARY
 - ROAD
 - DITCH OR STREAM
 - CULVERT
 - POTABLE WELL LOCATION WITH POET SYSTEM INSTALLED
 - POTABLE WELL LOCATION
 - ABANDONED POTABLE WELL LOCATION WITH POET SYSTEM REMOVED
 - ABANDONED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



TYCO FIRE PRODUCTS LP MARINETTE, WISCONSIN	
POTABLE WELL LOCATIONS - SAND POINT WELLS < 37 FEET	
	FIGURE 2

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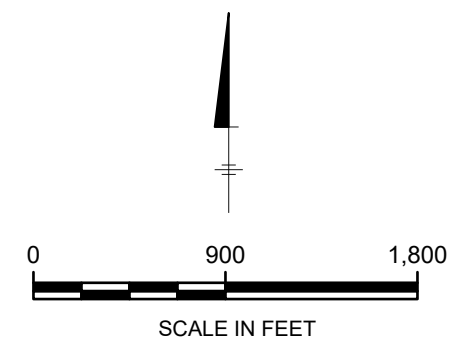


LEGEND:

- ▭ 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.

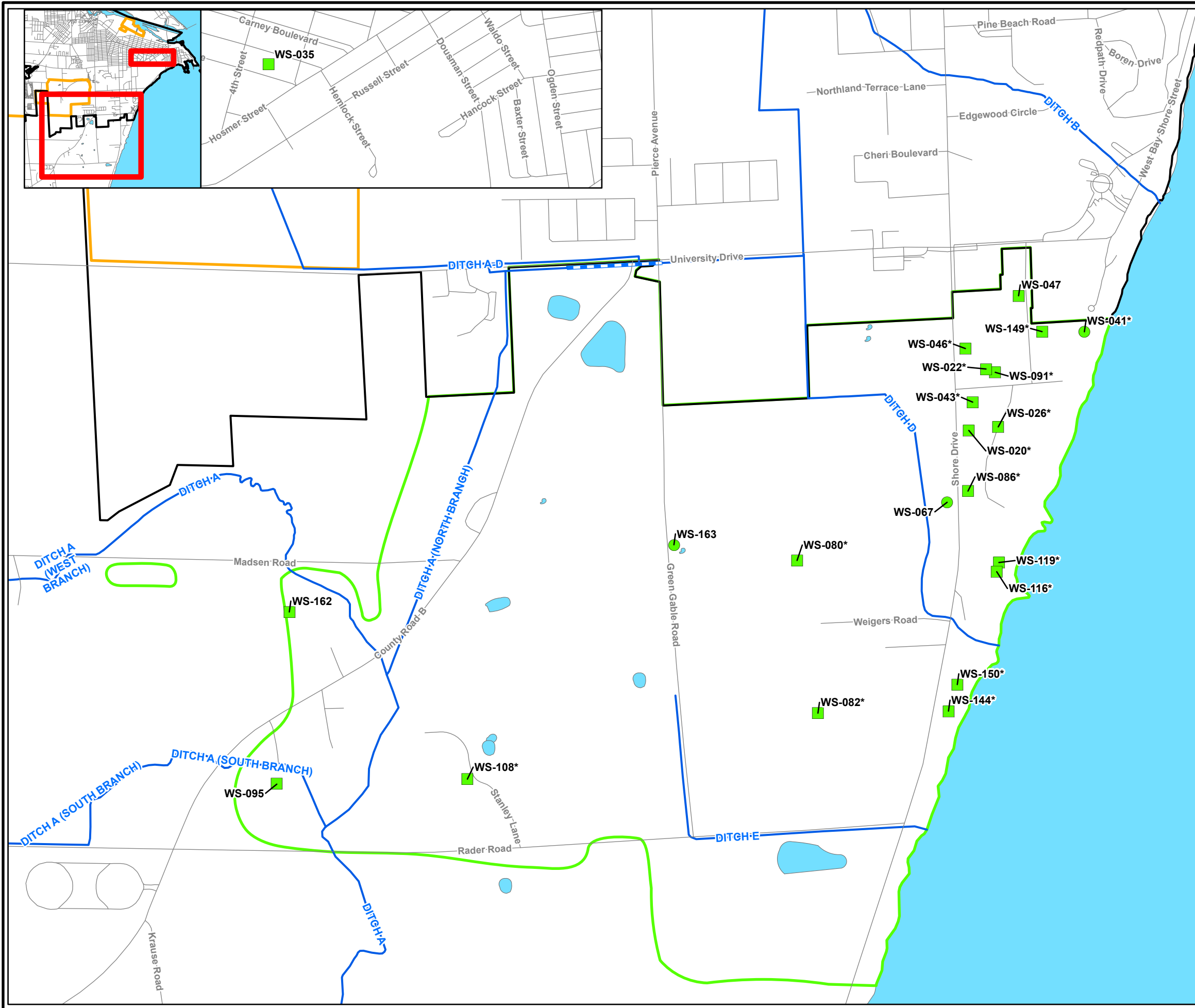


TYCO FIRE PRODUCTS LP
MARINETTE, WISCONSIN

**POTABLE WELL LOCATIONS -
DRILLED WELLS > 37 FEET**

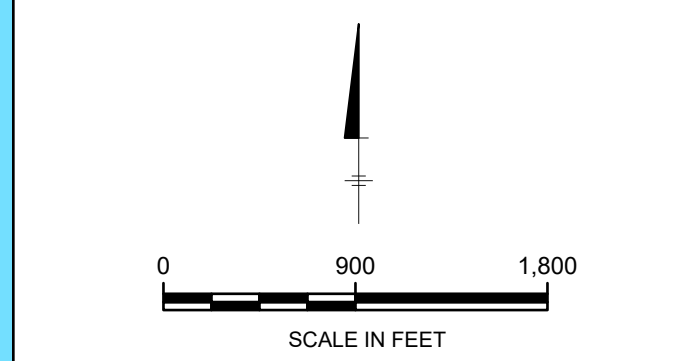
ARCADIS | **FIGURE 3**

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- 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.



TYCO FIRE PRODUCTS LP
MARINETTE, WISCONSIN

**POTABLE WELL LOCATIONS -
UNKNOWN WELL DEPTHS**

FIGURE
4

Arcadis U.S., Inc.
126 North Jefferson Street, Suite 400
Milwaukee
Wisconsin 53202
Phone: 414 276 7742
Fax: 414 276 7603
www.arcadis.com