State of Wisconsin Department of Natural Resources PO Box 7921, Madison WI 53707-7921 dnr.wi.gov

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

Form 4400-237 (R 12/18)

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

Definitions

- "Property" refers to the subject Property that is perceived to have been or has been impacted by the discharge of hazardous substances.
- "Liability Clarification" refers to a written determination by the Department provided in response to a request made on this form. The response clarifies whether a person is or may become liable for the environmental contamination of a Property, as provided in s. 292.55, Wis. Stats.
- "Technical Assistance" refers to the Department's assistance or comments on the planning and implementation of an environmental investigation or environmental cleanup on a Property in response to a request made on this form as provided in s. 292.55, Wis. Stats.
- "Post-closure modification" refers to changes to Property boundaries and/or continuing obligations for Properties or sites that received closure letters for which continuing obligations have been applied or where contamination remains. Many, but not all, of these sites are included on the GIS Registry layer of RR Sites Map to provide public notice of residual contamination and continuing obligations.

Select the Correct Form

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

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

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

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

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

Instructions

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

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

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

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Section 1. Contact and R	ecipient Information					
Requester Information						
This is the person requesting specialized agreement and is	technical assistance or a post-cidentified as the requester in Science	closure ection	e modification review 7. DNR will addres	w, that his or her liability b s its response letter to this	e clarifi s perso	ed or a n.
Last Name	First	MI	Organization/ Business Name			
Wahl	Scott		Tyco Fire Produ	icts LP		
Mailing Address		ı	City		State	ZIP Code
2700 Industrial Parkway S	South		Marinette		WI	54143
Phone # (include area code)	Fax # (include area code)		Email		•	
The requester listed above: (s	select all that apply)					
Is currently the owner			s considering s	selling the Property		
Is renting or leasing the	e Property		s considering a	acquiring the Property		
Is a lender with a morto	gagee interest in the Property					
Other. Explain the state	us of the Property with respect to	o the a	applicant:			
_						
	pe contacted with questions				ct if san	ne as requester
Contact Last Name	First	MI	Organization/ Bus	siness name		
Verburg Mailing Address	Ben		Arcadis		State	ZIP Code
•	. 400		City			
126 N Jefferson Street, Su Phone # (include area code)	Fax # (include area code)		Milwaukee Email		WI	53202
,	rax # (include area code)			1.		
(414) 276-7742 Environmental Consult	eant (if applicable)		Ben. Verburg@a	arcadis.com		
Contact Last Name	First	MI	Organization/ Bus	siness Name		
Verburg	Ben		Arcadis			
Mailing Address	Den		City		State	ZIP Code
126 N Jefferson Street, Su	ite 400					53202
Phone # (include area code)	Fax # (include area code)		Email		1 '' -	1 22202
(414) 276-7742			Ben. Verburg@a	orcadis com		
(111)2707712			Ben. versung e e			
Section 2. Property Inform Property Name	ation			FID No. (i	if know	2)
• •	nton DECo			•		'/
Tyco Fire Technology Cer BRRTS No. (if known)	nier - PFCs		Parcel Identification	4380055 on Number	90	
0238580694						
Street Address			City		State	ZIP Code
2700 Industrial Parkway South			Marinette		WI	54143
	Municipality where the Property	is loc		Property is composed of:	Pro	perty Size Acres
Marinette	• City Town Village of			Single tax Multiple parcels	tax 380	

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1. Is a resp plan acco	onse needed by a specific date? (e.g., Property closing date) Note: Most requests are completed within 60 days. Please ordingly.
No	Yes
J	Date requested by:
	Reason:
_	equester" enrolled as a Voluntary Party in the Voluntary Party Liability Exemption (VPLE) program?
\sim	nclude the fee that is required for your request in Section 3, 4 or 5.
\cup	Do not include a separate fee. This request will be billed separately through the VPLE Program.
Section	he information in Section 3, 4 or 5 which corresponds with the type of request: on 3. Technical Assistance or Post-Closure Modifications; on 4. Liability Clarification; or Section 5. Specialized Agreement.
	Request for Technical Assistance or Post-Closure Modification
Select the	type of technical assistance requested: [Numbers in brackets are for WI DNR Use]
to	Io Further Action Letter (NFA) (Immediate Actions) - NR 708.09, [183] - Include a fee of \$350. Use for a written response of an immediate action after a discharge of a hazardous substance occurs. Generally, these are for a one-time spill event. eview of Site Investigation Work Plan - NR 716.09, [135] - Include a fee of \$700.
ш	eview of Site Investigation Report - NR 716.15, [137] - Include a fee of \$1050.
	pproval of a Site-Specific Soil Cleanup Standard - NR 720.10 or 12, [67] - Include a fee of \$1050.
	eview of a Remedial Action Options Report - NR 722.13, [143] - Include a fee of \$1050.
	eview of a Remedial Action Design Report - NR 724.09, [148] - Include a fee of \$1050.
	eview of a Remedial Action Documentation Report - NR 724.15, [152] - Include a fee of \$350
R	eview of a Long-term Monitoring Plan - NR 724.17, [25] - Include a fee of \$425.
R	eview of an Operation and Maintenance Plan - NR 724.13, [192] - Include a fee of \$425.
Other T	echnical Assistance - s. 292.55, Wis. Stats. [97] (For request to build on an abandoned landfill use Form 4400-226)
	chedule a Technical Assistance Meeting - Include a fee of \$700.
	azardous Waste Determination - Include a fee of \$700.
	ther Technical Assistance - Include a fee of \$700. Explain your request in an attachment.
	osure Modifications - NR 727, [181]
□ s	Post-Closure Modifications: Modification to Property boundaries and/or continuing obligations of a closed site or Property; ites may be on the GIS Registry. This also includes removal of a site or Property from the GIS Registry. Include a fee of 1050, and:
	Include a fee of \$300 for sites with residual soil contamination; and
	Include a fee of \$350 for sites with residual groundwater contamination, monitoring wells or for vapor intrusion continuing obligations.
to	ttach a description of the changes you are proposing, and documentation as to why the changes are needed (if the change of a Property, site or continuing obligation will result in revised maps, maintenance plans or photographs, those documents have be submitted later in the approval process, on a case-by-case basis).
	ections 4 and 5 if the technical assistance you are requesting is listed above and complete Sections 6 and 7 of this fo Other Information Submitted
	all materials that are included with this request.
	oth a paper copy of the signed form and all reports and supporting materials, and an electronic copy of the form reports, including Environmental Site Assessment Reports, and supporting materials on a compact disk.
reques	one copy of any document from any state agency files that you want the Department to review as part of this to the person submitting this request is responsible for contacting other state agencies to obtain appropriate or information.
Pha	se I Environmental Site Assessment Report - Date:
 Pha	se II Environmental Site Assessment Report - Date:

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Legal Description of Property (required for all liability requests and spe	ecialized agreements)
Map of the Property (required for all liability requests and specialized	agreements)
Analytical results of the following sampled media: Select all that apply	and include date of collection.
Groundwater Soil Sediment Other med	ium - Describe:
Date of Collection:	
A copy of the closure letter and submittal materials	
Draft tax cancellation agreement	
☐ Draft agreement for assignment of tax foreclosure judgment	
X Other report(s) or information - Describe: Revised Long-Term Pota	ble Well Sampling Plan
For Property with newly identified discharges of hazardous substances only: been sent to the DNR as required by s. NR 706.05(1)(b), Wis. Adm. Code?	Has a notification of a discharge of a hazardous substance
Yes - Date (if known):	
○ No	
Note: The Notification for Hazardous Substance Discharge (non-emergency dnr.wi.gov/files/PDF/forms/4400/4400-225.pdf.	r) form is available at:
Section 7. Certification by the Person who completed this form	
I am the person submitting this request (requester)	
I prepared this request for: Scott Wahl	
Requester Name	_
certify that I am familiar with the information submitted on this request, and true, accurate and complete to the best of my knowledge. I also certify I have	
this request. Na M Ruthwski	2/10/21
Signature	Date Signed
Project Environmental Specialist	(414) 276-7742
Title	Telephone Number (include area code)

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Section 8. DNR Contacts and Addresses for Request Submittals

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

DNR NORTHERN REGION

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

DNR NORTHEAST REGION

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

DNR SOUTH CENTRAL REGION

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

DNR SOUTHEAST REGION

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

DNR WEST CENTRAL REGION

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



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

	DNR Use Only					
Date Received	Date Assigned		BRRTS Activity Code	BRRTS No. (if used)		
DNR Reviewer	C	Comme	ents			
Fee Enclosed?	Fee Amount		Date Additional Information Requested	Date Requested for DNR Response Letter		
◯ Yes ◯ No	\$					
Date Approved	Final Determination					



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

March 16, 2021

REVISED LONG-TERM POTABLE WELL SAMPLING PLAN

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

March 16, 2021

Prepared By:

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Phone: 414 276 7742 Fax: 414 276 7603

Our Ref:

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www.arcadis.com

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

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- Table 3. Private Drinking Water Well Results By Category All Private Wells

Figure

Figure 1. Private Drinking Water Well Sampling Area

Acronyms and Abbreviations

Arcadis U.S., Inc.
COC chain-of-custody

FTC Fire Technology Center

GAC Granular Activated Carbon

HAL Health Advisory Level

HDPE high-density polyethylene

ID identification

ng/L nanograms per liter

PFAS per- and poly-fluoroalkyl substances

PFOA perfluorooctanoic acid

PFOS perfluorooctanesulfonic acid

POET point of entry treatment

PTFE polytetrafluoroethylene

PWSA private drinking water well sampling area

RL reporting limit

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

This Revised Long-Term Potable Well Sampling Plan replaces the previous document by the same name submitted April 1, 2020. This updated version incorporates comments received by Tyco Fire Products LP (Tyco) from the Wisconsin Department of Natural Resources (WDNR) on November 16, 2020. This document outlines the frequency of future sampling events for the Private Well Sampling Program which includes private drinking water wells currently within the private drinking water well sampling area (PWSA) as defined by Tyco. It also outlines the Point of Entry Treatment (POET) System Monitoring Program, a separate program specific to wells that have a POET system installed and maintained by Tyco on their property. This document also provides the rationale for both the Private Well Sampling Program and the POET System Monitoring Program.

Tyco, as well as several other environmental consultants that have been retained, believe that a municipal water system is the long-term drinking water solution for the residents of the Town of Peshtigo within the PWSA. While Tyco continues to work with the Town of Peshtigo and the City of Marinette toward that end, free access to bottled water has been offered to every user of a private drinking water well within the PWSA that responded to outreach efforts to date. By providing bottled water regardless of sampling access or results, Tyco is eliminating the primary potential exposure pathway for per- and polyfluoroalkyl substances to enter the body.

Under this plan, Tyco will continue to sample wells within the Private Well Sampling Program at a frequency determined by the number of samples previously collected from the well and the results of those samples. Sampling frequency can range from quarterly for new wells that have not previously been tested, to biannually (every other year) for wells with 4 or more sampling events with results below Wisconsin Department of Health Services (WDHS) recommended Cycle 11 groundwater standards based on data available.

After participating in the WDNR per- and polyfluoroalkyl substances Listening Session on January 20, 2021, Tyco evaluated the feedback from residents and neighbors in the community and decided to accelerate the previously planned schedule for the Private Well Sampling Program and provide an additional round of sampling for wells within the POET System Monitoring Program. It is important to note that all private drinking water wells within the Private Well Sampling Program would have been offered sampling by the Winter 2022 event. This action simply accelerates the timeline for those planned sampling events.

1 Introduction

On behalf of Tyco Fire Products LP (Tyco), Arcadis US, Inc. (Arcadis) has prepared this *Revised Long-Term Potable Well Sampling Plan* (sampling plan) for the Tyco Fire Technology Center (FTC) located at 2700 Industrial Parkway in Marinette, Wisconsin (the Site). 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 2020) that is still awaiting formal approval by WDNR. This plan and future revisions will be applicable until a permanent water supply is provided to the defined private drinking water well sampling area (PWSA).

Aqueous film-forming foams have been used at the Site as part of research and development, quality control and firefighting training activities. Per- and polyfluoroalkyl substances (PFAS) such as perfluorooctanoic acid (PFOA) and/or perfluorooctanesulfonic acid (PFOS) have been present in various formulations of these foams. PFAS has been detected in groundwater at the Site and in off-Site potable wells. Results from private drinking water wells are used to inform residents of their specific groundwater conditions relative to PFAS and are not a source of remedial decision-making data. Borings, piezometers, and wells installed for monitoring purposes are used to identify plume conditions over time. Tyco continues to conduct potable water sampling near the Site.

The U.S. Environmental Protection Agency (USEPA) classifies PFAS as a category of "emerging contaminants". In May 2016, the USEPA issued a drinking water Lifetime Health Advisory Level (HAL) for two PFAS, specifically the individual and combined values of PFOA and PFOS, of 70 nanograms per liter (ng/L, or parts per trillion). In June 2019, the Wisconsin Department of Health Services (WDHS) recommended a groundwater standard of 20 ng/L for PFOA and PFOS, individually and combined under Cycle 10. In November 2020, WDHS recommended groundwater standards for 18 PFAS compounds including a combined standard for six of these compounds (FOSA, NEtFOSE, NEtFOSA, NetFOSAA, PFOS, and PFOA) under Cycle 11. While the recommended Cycle 11 criteria are potential future groundwater standards, they are included for consideration in this sampling plan for discussion purposes.

2 Potable Well Sampling Summary

2.1 Private Well Sampling Program

A potable well sampling program was initiated in December 2017 and continued quarterly for ten events through December 2020. The Private Well Sampling Program is conducted independent of the Point of Entry Treatment (POET) Monitoring Program described below. Private drinking water wells within the PWSA are in one program or the other. A list of wells within the Private Well Sampling Program is presented in **Table 1**. A list of wells within the POET Monitoring Program is presented in **Table 2**.

Quarterly sampling within the Private Well Sampling Program was suspended for the spring and summer 2020 events due to COVID-19, but resumed for the fall 2020 event, which ended December 31, 2020. The winter 2021 quarterly event is ongoing and extends through March 31, 2021. During the previous events, Arcadis sampled a total of 172 individual potable wells located generally to the southeast of the Site where residents rely on private wells for drinking water. A summary of the most conservative results compared to the WDHS recommended Cycle 11 criteria from the previous sampling events is included in the following list:

- Potable wells sampled through December 2020: 172
- Potable wells with results above the proposed standards: 32
- Potable wells with results between reporting limit (RL) and proposed standards: 25
- Potable wells with results below the RL (non-detect): 115

Bottled water is offered by Tyco to users of the private wells that are within the PWSA regardless of sampling participation or results. The only criteria for being eligible for bottled water within the PWSA is that the tenant has a private drinking water well plumbed to the building that is a primary source of drinking water. By taking this voluntary action, Tyco has effectively eliminated the drinking water exposure pathway and the need to continue testing private wells for PFAS. Bottled water is managed per the Comprehensive Alternative Water Management Plan submitted to WDNR in March 2020.

2.2 POET Monitoring Program

The POET System Monitoring Program was initiated in February 2018 for potable wells with results above the HAL and was expanded to include potable wells with results above the RL with confirmed results in July 2018. Private drinking water wells with POET systems are part of the POET Monitoring Program, managed independent of wells without POET systems, and are not subjected to the same sampling criteria as wells within the Private Well Sampling Program. Forty-one POET systems have been installed to date to treat drinking water under this program. A list of these wells is included in **Table 2**. Arcadis has collected POET system samples on a regular basis to confirm the effectiveness of PFAS removal and system operations.

Routine maintenance is conducted on each 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 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 indicate breakthrough varies based on water usage, concentrations of PFAS for each well, and concentration of total organic carbon. The

REVISED LONG-TERM POTABLE WELL SAMPLING PLAN

water available or yield from a driven point well also causes variability in when breakthrough is observed. POET system monitoring data noted just below has been provided to WDNR.

3 Long-Term Sampling Plan

3.1 Potable Wells

It is important to note that all well owners/users within the PWSA have been offered bottled water though not all residents accepted. Those with confirmed results above the laboratory RL for PFOA and/or PFOS have been offered POET systems though not all POET system offers were accepted. This sampling plan reflects the current WDHS recommended Cycle 11 criteria. The PWSA is roughly contained 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. A community water system is being planned and designed by Tyco effectively eliminating the drinking water exposure pathway and the need for continued testing of private wells for PFAS. Plume conditions will be monitored through a network of monitoring wells and piezometers already in place or planned.

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 private drinking water wells are used to inform residents of their specific groundwater conditions relative to PFAS and are not a source of remedial decision-making data. Borings, piezometers, and wells installed for monitoring purposes are used to identify plume conditions over time.

3.1.1 New Potable Well Samples

When potable wells are sampled for the first time for PFAS under this program, the wells will be sampled a total of four times in consecutive quarterly events if access is granted by the well owner/user. Based on the results of these four events, subsequent sampling events will occur as follows:

- Semi-annual sampling (every 6 months) will be offered if concentrations of PFAS remain below the WDHS
 recommended Cycle 11 criteria for all events for the first year. If combined concentrations maintain levels
 below WDHS recommended Cycle 11 criteria after the first year of semi-annual sampling (2 years from the
 first sampling event), the potable wells will then be sampled annually. After the second year of annual
 sampling, the wells will be sampled biennially (every 2 years).
- Quarterly sampling will continue to be offered for an additional year if the concentrations of PFAS are above WDHS recommended Cycle 11 criteria. After 2 years of quarterly sampling, new wells with results above WDHS recommended Cycle 11 criteria will be sampled annually.

3.1.2 Previously Sampled Potable Wells

Laboratory methods for analyzing samples have evolved over the course of this project. Wells sampled prior to the fall 2020 sampling event were analyzed for less than 36 analytes which makes comparisons to all WDHS recommended Cycle 11 criteria impossible. Results from samples taken that were not evaluated for 36 analytes will be compared against WDHS recommended Cycle 11 criteria to the extent possible. All wells in the Private Well Sampling Program were scheduled to be sampled by the winter 2022 sampling event. However, in response to public feedback at a listening session hosted by WDNR on January 20, 2021, Tyco offered to accelerate the next scheduled sampling event for everyone within the PWSA. This creates an opportunity for all private well

owners or users to have their drinking water tested for 36 analytes and a full comparison to WDHS recommended Cycle 11 criteria.

Potable wells that have been sampled previously four or more times as part of the ongoing sampling program, or potable wells that have been subject to sampling four or more times using the criteria presented in Section 3.1.1, will be sampled as follows:

- Biennial sampling (every 2 years) will be conducted if the PFAS concentrations are below WDHS recommended Cycle 11 criteria.
- Annual sampling will be conducted if the PFAS concentrations are above WDHS recommended Cycle 11 criteria for one or more prior events.

Potable wells that have been sampled less than four times will be sampled bi-annually, (every 6 months) until they reach the four-sampling event threshold.

As noted above in Section 1, this sampling plan will be updated every 6 months.

3.2 POET Systems

3.2.1 Proposed POET Maintenance Schedule for Existing POET Systems

Systems installed for less than 1 year will continue to be sampled on a quarterly basis in order to determine POET system efficiency. After 1 year of monitoring, POET systems will be transitioned to the maintenance program described below. The POET system maintenance program uses sampling data from each POET over the course of at least 1 year to determine a conservative GAC vessel change out schedule. POET users are not required to forfeit their bottled water service.

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 without the collection of additional samples. Over 2 years' worth of data supports that the following POET systems had non-detect concentrations at the mid-carbon and post-carbon sampling locations over the span of a year or more:

POET Systems – 1, 2, 13, 14, 15, 18, 20, 21, 23, 24, 25, 26, 27, 28, 29, 31, 32, 33, 34, 35, 36, 37, 40

Any POET systems that have shown PFAS breakthrough between 6 months and 1 year will be maintained by replacing the GAC tanks every 6 months without the collection of additional samples. This applies to the following systems:

POET Systems – 3, 6, 17, 30, 38, 39

Any POET systems that have shown varying influent or PFAS breakthrough before 6 months will continue to be monitored on a quarterly basis and frequency may be increased or decreased based on new results. This applies to the following systems:

POET Systems – 4, 12, 37

Any POET systems that have shown PFAS breakthrough before 3 months will be maintained by replacing the GAC tanks every 2 to 3 months without the collection of additional samples. This applies to the following systems:

POET Systems – 5, 7, 19

Any POET systems that have not operated for at least a year will be monitored for at least 12 months to determine the future GAC maintenance schedule, at which point sampling will be discontinued. This applies to the following systems:

POET Systems – 41

Any POET system that is 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. Any POET system that has an unplanned service disruption due to vacancy, death, or home for sale will be winterized and reinstalled when needed without the collection of additional samples. Winterization consists of bypassing the system, removing the GAC tanks and filters, and removing residual water from the system. One of the above situations applies to the following systems:

POET Systems –10, 11, 16, 22

POET systems 8 and 9 are no longer in use. POET-8 is installed but not in use due to vacancy and POET-9 has been removed.

Sediment filters and UV/Quartz maintenance will continue to be changed out based on the schedule defined in Section 2.2.

3.2.2 Proposed POET Maintenance Schedule for New POET Systems

New POET systems will be monitored quarterly for 1 year to determine the GAC maintenance schedule and monitor any fluctuation of potable well results. Sediment filters will continue to be changed out every 3 months and the UV light and quartz sleeves will continue to be changed out once per year. These timeframes are based on evaluation of data from more than 2 years of performance monitoring data collected from POET systems within the PWSA.

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.

The future GAC change schedule will be determined based on the data obtained from the sampling activities described in this section. The POET systems will be scheduled for GAC changes without additional sampling based on this data.

4 Sample Procedure

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.

On March 16, 2020, Arcadis and Tyco suspended field sampling operations after the "Safer at Home" executive order by the Governor of Wisconsin and "Social Distancing" guidelines were enacted by the State of Wisconsin and the federal government. Those recommendations were extended by Wisconsin Governor Tony Evers on April 16, 2020 to remain active until at least May 26, 2020. Arcadis contacted the owners who were scheduled to have their drinking water well sampled and canceled the appointments. Arcadis offered to call the owners when sampling resumed to reschedule the appointments.

The toll-free number remained operational throughout the suspension of sampling activities. Homeowners interested in having their private drinking water well sampled could call in to request a call back when sampling resumed. Sampling resumed for the fall 2020 quarterly event and for the POET systems discussed in Section 3.2.1.

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

- Don 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.
- Samples bottle caps must remain on the bottle until immediately prior to sample collection, and the bottle must be sealed immediately after sample collection.

With the resumption of sampling, additional COVID-related precautions were implemented to protect homeowners and the sampling team, which include:

- Sampling team personnel will practice established social distancing protocols when interacting with homeowners.
- Sampling team personnel will don 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 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 3 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 2 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.

REVISED LONG-TERM POTABLE WELL SAMPLING PLAN

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 4 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 at a well were below the WDHS recommended Cycle 11 criteria based on data available for past sampling events but are above those criteria for the current sampling event, then a phone call will be placed to the well owner/user within 2 days of completing the preliminary data quality review for the laboratory results for that sample to alert the owner or tenant of their results and confirm their bottled water status or offer bottled water as appropriate. A comprehensive list of all private wells and their category based on comparison to WDHS recommended Cycle 11 criteria for available data is included in **Table 3**.

Tyco will provide WDNR copies of the letters provided to well owners/users within 10 business days of Arcadis receiving results from the laboratory. Letters will include a summary table of the sample analytical results with a comparison to the WDHS recommended Cycle 11 criteria, and a copy of the laboratory analytical report, which is consistent with the August 12, 2020 WDNR recommendations. After final validation is complete for all samples in a quarterly private well sampling event, Tyco will provide WDNR tables and figures that summarize the results for the event including updated tables for the next eligible sampling or maintenance event for wells within the Private Well Sampling Program and the POET System Monitoring Program. Validated results have been and will be included in the bi-weekly database submission.

6 Closing

This sampling plan presents the approach for sampling private wells and POET systems, bottled water service, and POET system operation and maintenance. Tyco continues to work directly with residents, community leaders and other federal, state and local agencies on this important sampling work, and will continue to keep the community informed of these activities.

www.arcadis.com

7 References

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

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

Arcadis 2020b. 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 2021. 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.

State of Wisconsin. 2020a. Geographical Information System Safer at Home Order. March 24.

State of Wisconsin. 2020b. Emergency Order #28 Safer at Home Order. April 16.

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.

Tables



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

Well Sample ID	# of Quarterly Samples Collected	Most Conservative Category ⁽³⁾	Next Sampling Event ^(4,5)
WS-001	8	ND	Winter 2023
WS-002	2	ND	Well no longer in use
WS-004	1	ND	Well no longer in use
WS-005	9	ND	Winter 2023
WS-005B	2	ND	Not a drinking water well
WS-006	3	ND	Winter 2023
WS-007A ⁽¹⁾	1	> ES	Spring 2021
WS-007B ⁽¹⁾	2	> ES	Spring 2021
WS-010	5	ND	Winter 2023
WS-011	7	ND	Winter 2023
WS-012	6	ND	Winter 2023
WS-014	9	ND	Winter 2023
WS-015	4	ND	Winter 2023
WS-016	6	ND	Winter 2023
WS-020	7	ND	Winter 2023
WS-021	2	ND	Spring 2021
WS-022	7	ND	Winter 2023
WS-026	8	ND	Winter 2023
WS-027	5	ND	Winter 2023
WS-028	4	ND	Winter 2023
WS-029	7	ND	Winter 2023
WS-031	9	ND	Winter 2023
WS-033	9	ND	Winter 2023
WS-034	9	ND	Winter 2023
WS-035	5	RL < ES	Winter 2023
WS-039	7	ND	Winter 2023
WS-040	7	ND	Winter 2023
WS-041	8	ND	Winter 2023
WS-042	8	ND	Winter 2023
WS-043	7	ND	Winter 2023
WS-044	9	ND	Winter 2023
WS-045	9	ND	Winter 2023
WS-046	4	ND	Winter 2023
WS-047	2	ND	Spring 2021
WS-048 ⁽¹⁾	8	RL < ES	Winter 2023
WS-050	9	ND	Winter 2023
WS-051	9	ND	Winter 2023
WS-055	6	ND	Winter 2023
WS-056	4	ND	Winter 2023
WS-059	5	RL < ES	Winter 2023
WS-060 ⁽¹⁾	4	RL < ES	Winter 2023
WS-061A	2	ND	Spring 2021
WS-062 ⁽²⁾	5	> ES	Winter 2022
WS-063	9	ND	Winter 2023
WS-064	7	RL < ES	Winter 2023
WS-065	9	ND	Winter 2023
WS-066	7	ND	Winter 2023
WS-069A	7	ND	Winter 2023

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

Well Sample ID	# of Quarterly Samples Collected	Most Conservative Category ⁽³⁾	Next Sampling Event ^(4,5)
WS-069B ⁽¹⁾	7	RL < ES	Winter 2023
WS-070 ⁽¹⁾	1	> ES	Spring 2021
WS-071	6	ND	Winter 2023
WS-072	9	ND	Winter 2023
WS-073	9	ND	Winter 2023
WS-074	1	ND	Spring 2021
WS-075	9	ND	Winter 2023
WS-076	3	ND	Winter 2023
WS-077	5	ND	Winter 2023
WS-078	9	ND	Winter 2023
WS-079	9	ND	Winter 2023
WS-080	4	ND	Winter 2023
WS-081	3	ND	Winter 2023
WS-082	2	ND	Spring 2021
WS-082B	1	ND	Not a drinking water well
WS-082C	1	ND	Not a drinking water well
WS-082D ⁽¹⁾	2	> ES	Spring 2021
WS-083	6	ND	Winter 2023
WS-084	9	ND	Winter 2023
WS-085	7	ND	Winter 2023
WS-086	6	ND	Winter 2023
WS-087	9	ND	Winter 2023
WS-088	9	ND	Winter 2023
WS-089	4	ND	Winter 2023
WS-091	4	ND	Winter 2023
WS-093	5	ND	Winter 2023
WS-094 ⁽¹⁾	6	RL < ES	Winter 2023
WS-095	3	ND	Winter 2023
WS-098	5	ND	Winter 2023
WS-101 ⁽²⁾	2	> ES	Spring 2021
WS-102	8	ND	Winter 2023
WS-103	5	ND	Winter 2023
WS-104	8	ND	Winter 2023
WS-105	1	ND	Spring 2021
WS-107	6	ND	Winter 2023
WS-108	8	ND	Winter 2023
WS-110A	9	ND	Winter 2023
WS-112	8	ND	Winter 2023
WS-113	9	ND	Winter 2023
WS-114	5	ND	Winter 2023
WS-116	7	ND	Winter 2023
WS-117	7	ND	Winter 2023
WS-118A	5	ND	Winter 2023
WS-118B	4	ND	Winter 2023
WS-119	9	ND	Winter 2023
WS-120	6	ND	Winter 2023
WS-122	9	ND	Winter 2023
WS-123	5	ND	Winter 2023

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

Well Sample ID	# of Quarterly Samples Collected	Most Conservative Category ⁽³⁾	Next Sampling Event ^(4,5)
WS-124 ⁽¹⁾	6	RL < ES	Winter 2023
WS-125	6	ND	Winter 2023
WS-127	2	ND	Spring 2021
WS-128	4	ND	Winter 2023
WS-130	9	ND	Winter 2023
WS-131	6	ND	Winter 2023
WS-132	8	ND	Winter 2023
WS-134	5	ND	Winter 2023
WS-135	3	ND	Winter 2023
WS-136	5	ND	Winter 2023
WS-137	6	ND	Winter 2023
WS-138	7	ND	Winter 2023
WS-139	8	ND	Winter 2023
WS-140	4	RL < ES	Winter 2023
WS-141	7	ND	Winter 2023
WS-142	3	ND	Winter 2023
WS-143	5	RL < ES	Winter 2023
WS-144	5	ND	Winter 2023
WS-145	4	ND	Winter 2023
WS-147 ⁽²⁾	2	> ES	Spring 2021
WS-148	2	ND	Spring 2021
WS-149	2	ND	Spring 2021
WS-150	2	ND	Spring 2021
WS-151	3	ND	Winter 2023
WS-152	6	ND	Winter 2023
WS-153	6	ND	Winter 2023
WS-154	4	ND	Winter 2023
WS-155	3	ND	Winter 2023
WS-156	6	ND	Winter 2023
WS-157	5	RL < ES	Winter 2023
WS-158	2	> ES	Spring 2021
WS-159 ⁽¹⁾	2	> ES	Spring 2021
WS-160	3	ND	Winter 2023
WS-161	2	ND	Spring 2021
WS-162	1	ND	Spring 2021

Notes:

Categories current through Fall 2020 Sampling Event

ES = Wisconsin Department of Natural Resources proposed Enforcement Standard

ID = Identification

ND = Not detected above the laboratory Reporting Limit

RL = Reporting Limit

^{(1) =} POET offer extended

^{(2) =} POET offer declined

^{(3) =} Data represents highest historical results from well; data compared against Cycle 11 proposed groundwater standards; not all compounds with proposed criteria were analyzed

 $^{^{(4)}}$ = Assumes all wells sampled in Winter 2021 event

^{(5) =} Assumes no change in results category with Winter 2021 results



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

Well Sample ID	POET ID	Most Conservative Category ⁽¹⁾	Next Maintenance or Sampling Event ⁽²⁾
WS-008	POET-7	> ES	Maintenance, June 2021
WS-009	POET-26	RL < ES	Maintenance, June 2021
WS-013	POET-10	RL < ES	Maintenance, May 2021
WS-017	POET-40	RL < ES	Maintenance, June 2021
WS-018	POET-29	> ES	Maintenance, June 2021
WS-019	POET-5	> ES	Maintenance, May 2021
WS-023	POET-14	RL < ES	Maintenance, May 2021
WS-024	POET-11	> ES	Winterized; TBD
WS-025	POET-28	> ES	Maintenance, June 2021
WS-030	POET-31	> ES	Maintenance, June 2021
WS-032	POET-25	ND	Maintenance, June 2021
WS-036	POET-3	> ES	Maintenance, April 2021
WS-037	POET-32	> ES	Maintenance, April 2021
WS-038	POET-19	> ES	Maintenance, June 2021
WS-049	POET-35	RL < ES	Maintenance, April 2021
WS-052	POET-2	> ES	Maintenance, May 2021
WS-053	POET-21	RL < ES	Maintenance, June 2021
WS-054	POET-30	> ES	Maintenance, April 2021
WS-057	POET-34	> ES	Maintenance, May 2021
WS-058	POET-1	> ES	Maintenance, June 2021
WS-061B	POET-27	> ES	Maintenance, April 2021
WS-067	POET-39	RL < ES	Maintenance, June 2021
WS-068	POET-12	> ES	Maintenance and sampling, June 2021
WS-090	POET-4	> ES	Maintenance and sampling, April 2021
WS-092	POET-22	ND	Maintenance, April 2021
WS-096	POET-6	> ES	Maintenance, June 2021
WS-097	POET-13	RL < ES	Maintenance, May 2021
WS-099	POET-15	RL < ES	Maintenance, June 2021
WS-100	POET-24	RL < ES	Maintenance, June 2021
WS-106	POET-37	> ES	Maintenance and sampling, May 2021
WS-109	POET-17	> ES	Maintenance, April 2021
WS-111	POET-18	RL < ES	Maintenance, April 2021
WS-115	POET-20	ND	Maintenance, May 2021
WS-121A	POET-16	> ES	Winterized; TBD
WS-121B	POET-36	RL < ES	Maintenance, June 2021
WS-126	POET-23	ND	Winterized; reinstall April 2021
WS-129	POET-38	RL < ES	Maintenance, June 2021
WS-133	POET-33	RL < ES	Maintenance and sampling suspended
WS-146A	POET-8	> ES	POET not in use
WS-146B	POET-9	> ES	POET uninstalled
WS-163	POET-41	> ES	Maintenance and sampling, June 2021

Notes:

Categories current through Fall 2020 Sampling Event

ES = Wisconsin Department of Natural Resources proposed Enforcement Standard

OM&M = Operations, Maintenance and Monitoring

POET = Point of Entry Treatment

ID = Identification

ND = Not detected above the laboratory Reporting Limit

RL = Reporting Limit

^{(1) =} Data represents highest historical results from well; data compared against Cycle 11 proposed groundwater standards; not all compounds with proposed criteria were analyzed

 $^{^{(2)}}$ = This program is operated independent of the private drinking water well sampling program



Table 3
Private Drinking Water Well Results By Category - All Private Wells
Revised Long-Term Potable Well Sampling Plan
Marinette, Wisconsin

Private Wells W	/ith ND Results	Private Wells with Results Between RL and Proposed ES	Private Wells with Results Exceeding the Proposed ES
WS-001	WS-086	WS-009	WS-007A
WS-002	WS-087	WS-013	WS-007B
WS-004	WS-088	WS-017	WS-008
WS-005	WS-089	WS-023	WS-018
WS-005B	WS-091	WS-035	WS-019
WS-006	WS-092	WS-048	WS-024
WS-010	WS-093	WS-049	WS-025
WS-011	WS-095	WS-053	WS-030
WS-012	WS-098	WS-059	WS-036
WS-014	WS-102	WS-060	WS-037
WS-015	WS-103	WS-064	WS-038
WS-016	WS-104	WS-067	WS-052
WS-020	WS-105	WS-069B	WS-054
WS-021	WS-107	WS-094	WS-057
WS-022	WS-108	WS-097	WS-058
WS-026	WS-110A	WS-099	WS-061B
WS-027	WS-112	WS-100	WS-062
WS-028	WS-113	WS-111	WS-068
WS-029	WS-114	WS-121B	WS-070
WS-031	WS-115	WS-124	WS-082D
WS-032	WS-116	WS-129	WS-090
WS-033	WS-117	WS-133	WS-096
WS-034	WS-118A	WS-140	WS-101
WS-039	WS-118B	WS-143	WS-106
WS-040	WS-119	WS-157	WS-109
WS-041	WS-120		WS-121A
WS-042	WS-122		WS-146A
WS-043	WS-123		WS-146B
WS-044	WS-125		WS-147
WS-045	WS-126		WS-158
WS-046	WS-127		WS-159
WS-047	WS-128		WS-163
WS-050	WS-130		
WS-051	WS-131		
WS-055	WS-132		
WS-056	WS-134		
WS-061A	WS-135		
WS-063	WS-136		
WS-065	WS-137		
WS-066	WS-138		
WS-069A	WS-139		

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Table 3 **Private Drinking Water Well Results By Category - All Private Wells Revised Long-Term Potable Well Sampling Plan Marinette, Wisconsin**

Private Wells With ND Results		Private Wells with Results Between RL and Proposed ES	Private Wells with Results Exceeding the Proposed ES
WS-071	WS-141		
WS-072	WS-142		
WS-073	WS-144		
WS-074	WS-145		
WS-075	WS-148		
WS-076	WS-149		
WS-077	WS-150		
WS-078	WS-151		
WS-079	WS-152		
WS-080	WS-153		
WS-081	WS-154		
WS-082	WS-155		
WS-082B	WS-156		
WS-082C	WS-160		
WS-083	WS-161		
WS-084	WS-162		
WS-085			
1	15	25	32

Notes:

Data compared against Cycle 11 proposed groundwater standards;

not all compounds with proposed criteria were analyzed

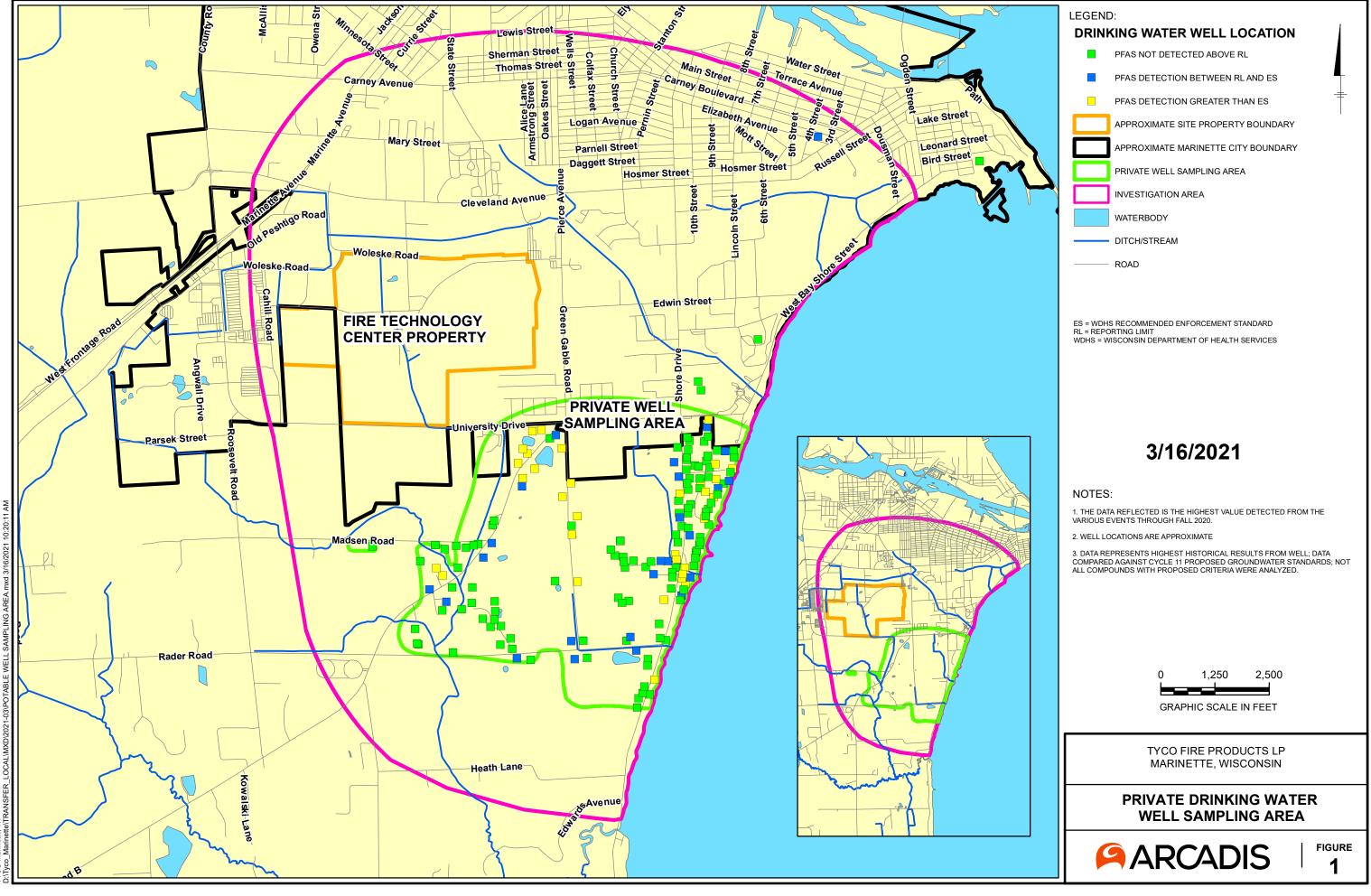
Categories current through Fall 2020 Sampling Event

ES = Wisconsin Department of Natural Resources proposed Enforcement Standard

ND = Not detected above the laboratory Reporting Limit

RL = Reporting Limit

Figure



City: Minneapolis/Citrix Div/Group: IMDVC Created By: Last Saved By: MSMiller TYCO Marinette. WI

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