

PFAS Contamination Marinette, Peshtigo, and Surrounding Communities

Listening Session 10 – September 16, 2020

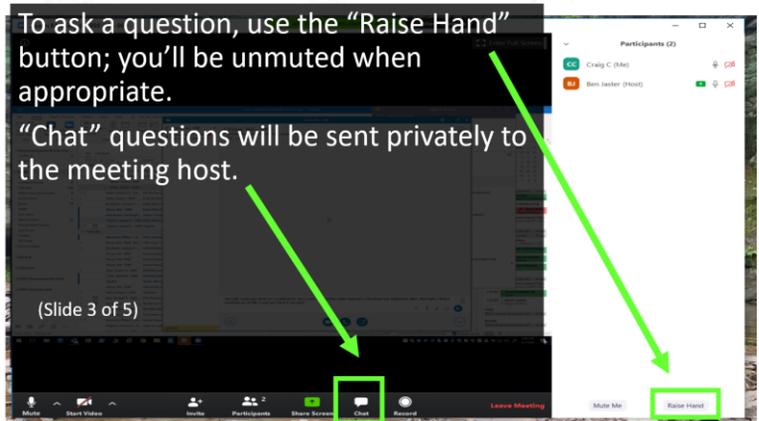


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What to Expect from this Listening Session

'Zoom' Technology

- All attendees are automatically muted when they join the call
- If you are joining by web:
 - **During the presentation** – use 'chat' feature to type questions
 - **After presentation** – use the 'chat' feature or 'raise hand' feature to request to be unmuted to ask a call
- If you are joining by phone:
 - Write questions down and contact us later (1-888-626-3244)



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Team Members

DNR - Remediation and Redevelopment

- Bridget Kelly, Emerging Contaminants
- Christine Haag, Director
- Trevor Nobile, Field Operations Director
- Jodie Peotter, BOP Section Chief
- Jenna Soyer, Program and Policy Operations Director
- Dave Neste, Hydrogeologist
- Roxanne Chronert, NER Supervisor

DNR - Drinking Water And Groundwater

- Kyle Burton, Field Operations Director

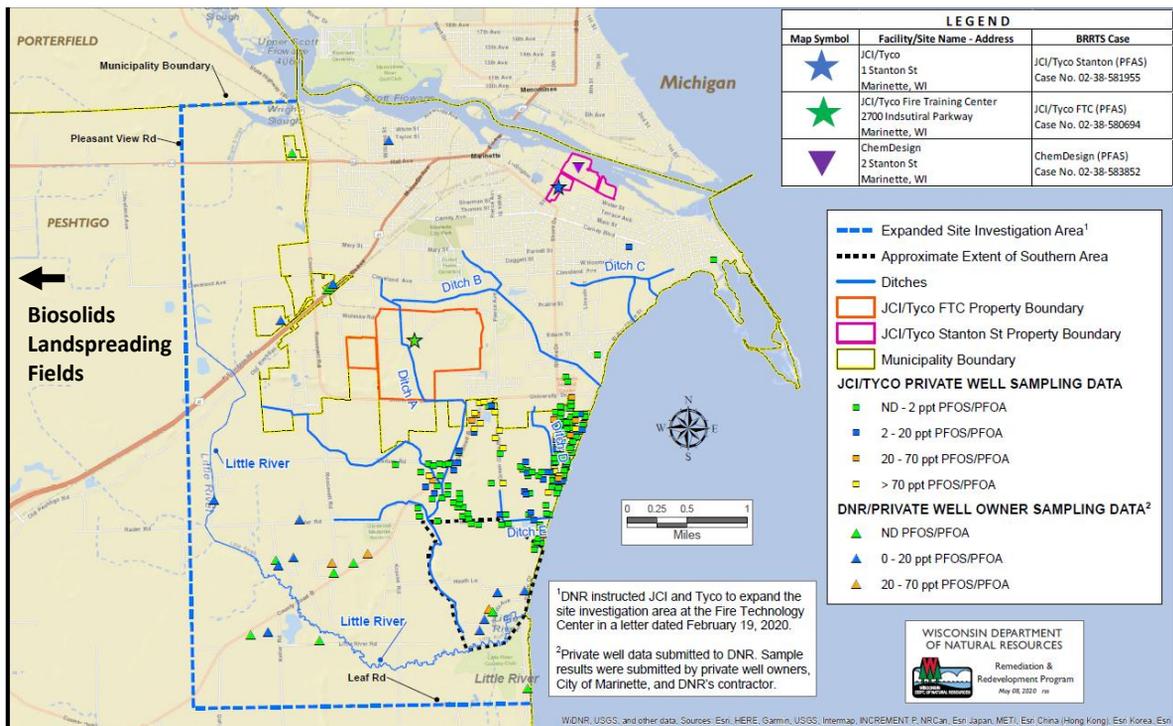
DNR - Water Quality

- Heidi Schmitt-Marquez, NER Supervisor
- Alexis Peter – Waste Water Specialist
- Laura Gerold – Wastewater Engineer

Department of Health Services

- Brita Kilburg-Basnyat, Toxicologist
- Amanda Koch, Health Educator

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Where Can I find Additional Information?

- PFAS 101
- Details regarding site investigations
- Previous Zoom recordings – meetings 7 and 8
- Website: <https://dnr.wi.gov/topic/Contaminants/Marinette.html>
 - DNR homepage – search 'PFAS Marinette'



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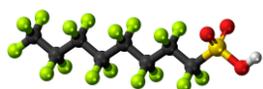
Staying Connected

- **Today - 10th in series of sessions**
 - Meetings every other month
 - Next meeting in November
- **Other options for contacting DNR**
 - Call (888-626-3244) or
 - email DNRJCI PFAS@wisconsin.gov
- **Also – check out website and FAQs**
<https://dnr.wi.gov/topic/Contaminants/Marinette.html>

- **Subscribe for updates:** to Marinette and Peshtigo area PFAS contamination updates.



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Welcome and Agenda

Presentation:

- Deer Tissue Study – Guest Speaker Sean Strom, Fish and Wildlife Toxicologist
- DNR Private Potable Well Sampling in Expanded Site Investigation Area
- Recent Surface Water Sample Results – Ditches A + B
- Upcoming Important Dates

Listening Session:

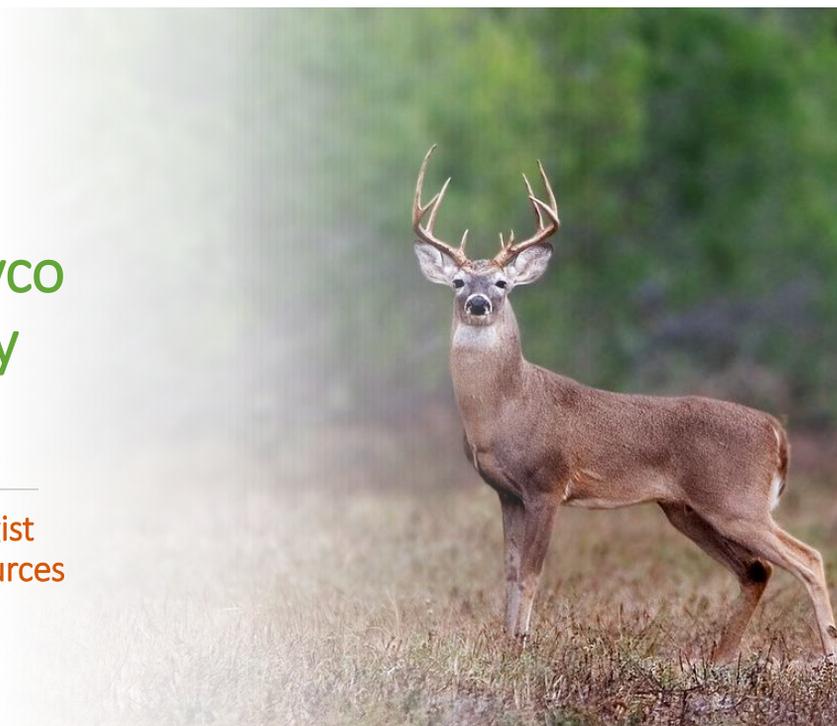
- Question + Answer Session

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PFAS in Deer from the JCI/Tyco Fire Technology Center (FTC)

Sean M. Strom, Toxicologist
WI Dept of Natural Resources

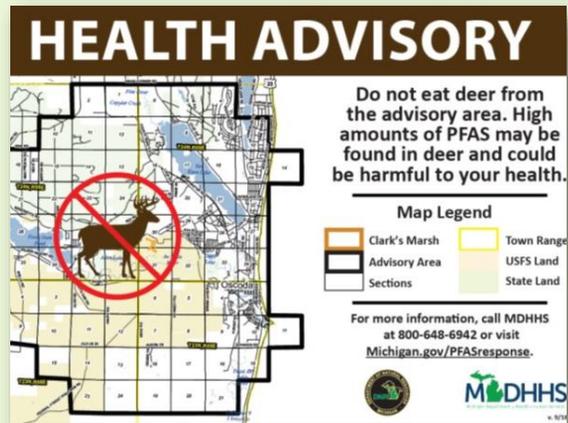


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PFAS in Deer

• What do we know?

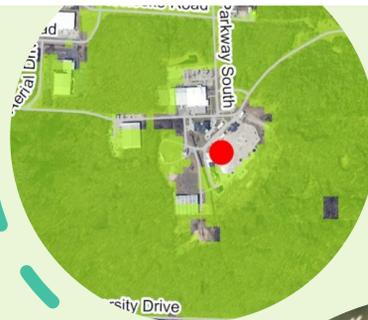
- Michigan has reported PFAS results on nearly 150 deer
- Many from sites contaminated with PFAS
- Only 1 deer had PFAS levels that warranted an advisory



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PFAS in Deer

- Local concern regarding potential PFAS contamination of deer
- DNR designed study to assess PFAS levels in local deer
- Work with Dept of Health Services to evaluate need for any advisory



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Study Details

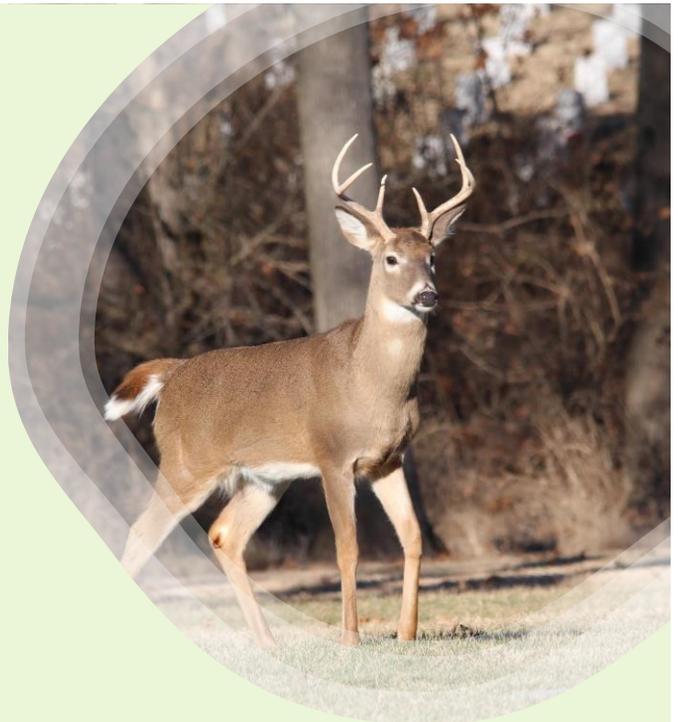
- 20 deer harvested from JCI/Tyco FTC in February 2020
- Muscle, heart, and liver samples analyzed for PFAS
- 12 muscle samples collected from deer harvested in Price county
 - Opportunistically collected from deer heads submitted for CWD testing



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Results - Muscle

- Only one deer from JCI/Tyco had detectable levels of PFAS (PFOS) in muscle
- The PFOS concentration in this one deer was low and below any PFOS consumption guidelines
- No consumption advisory is needed for muscle tissue (venison) for deer from this area
- No PFAS was detected in the deer collected from Price county



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Results - Heart

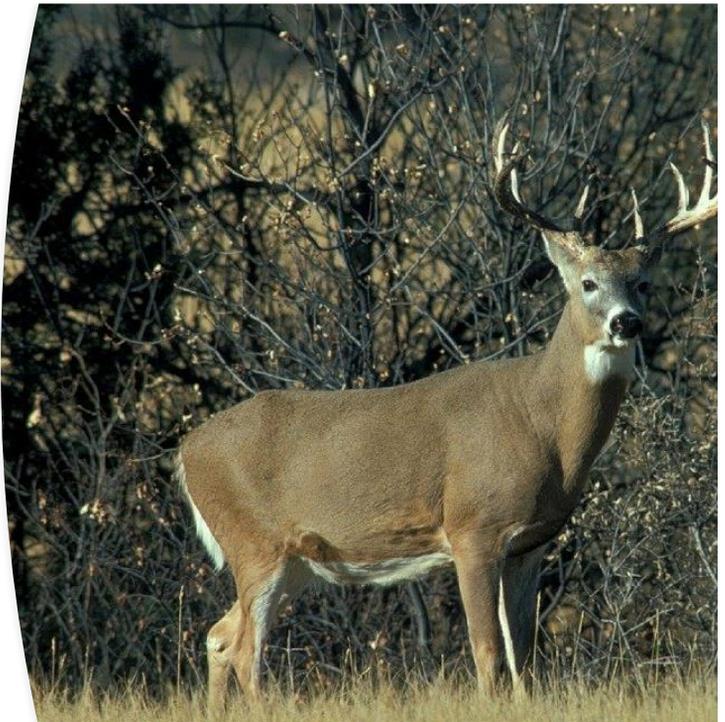
- The only PFAS detected in heart was PFOS, and was detected in 2 deer
- The observed PFOS levels in the 2 heart samples were very low
- No consumption advisory for heart is necessary for deer harvested from this area



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Results - Liver

- Six different PFAS compounds were detected in liver
- All 20 liver samples had detectable levels of PFOS (3.8–92.0 ppb)
- The liver functions to filter contaminants from bloodstream – so higher PFAS in liver was not unexpected



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Results - Liver

- Consumption restrictions begin when PFOS concentrations are >10 ppb
- 11 of the 20 liver samples had PFOS levels exceeding 10 ppb
- Liver can accumulate other contaminants in addition to PFOS
- **Recommend hunters Do Not Eat liver from deer harvested from this area**



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Conclusions

- No PFOS-based consumption advisories needed for muscle or heart of deer from this area
- *Recommend hunters Do Not Eat liver of deer harvested from a 5-mile radius of the JCI/Tyco FTC*
- The 5-mile radius is estimated to be the maximum travel/dispersal range for deer



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Additional Information

- Analytical results, press release, and advisory information can be found on the DNR webpages
- On DNR homepage: Search '*PFAS Marinette*' → follow link to webpage
- Deer information will be linked under **Actions Tab**

WISCONSIN DEPARTMENT OF NATURAL RESOURCES

HUNTING FISHING PARKS CLIMATE ENVIRONMENT FORESTRY

TOPIC » PFAS

PFAS CONTAMINATION IN THE MARINETTE AND PESHTIGO AREA

PFAS contamination has been detected in the Marinette and Peshtigo area in soil, sediment, groundwater, surface water, private drinking water wells and biosolids.

FAQ for PFAS contamination in the Marinette and Peshtigo area.

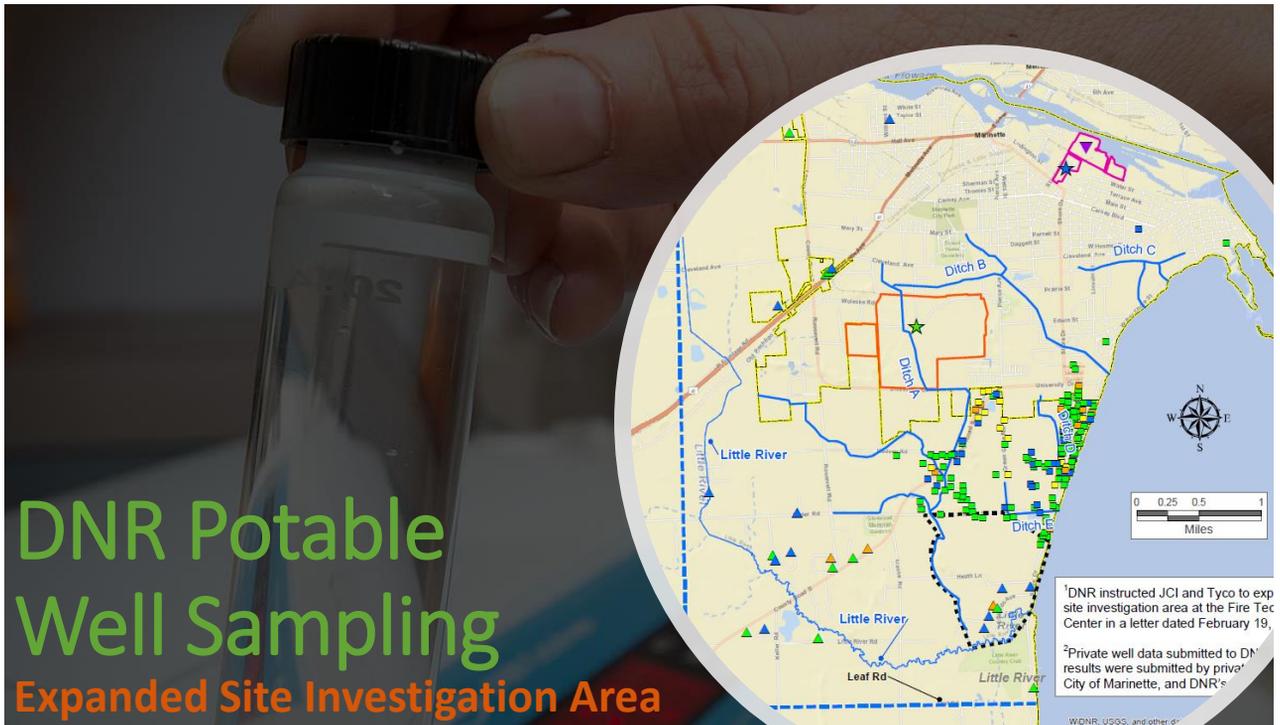
SUBSCRIBE to Marinette and Peshtigo area PFAS contamination updates.

FIND a certified lab that can test drinking water for PFAS.

REPORT a PFAS foam event suspected to be occurring in the Marinette and/or Peshtigo area.

Under the oversight of the DNR, Johnson Controls, Inc. - Tyco Fire Products (JCI/Tyco) began conducting a site investigation for PFAS contamination in Fall 2017. This investigation resulted in additional sites being identified where investigation work must be conducted. Additional parties responsible for PFAS contamination have also been

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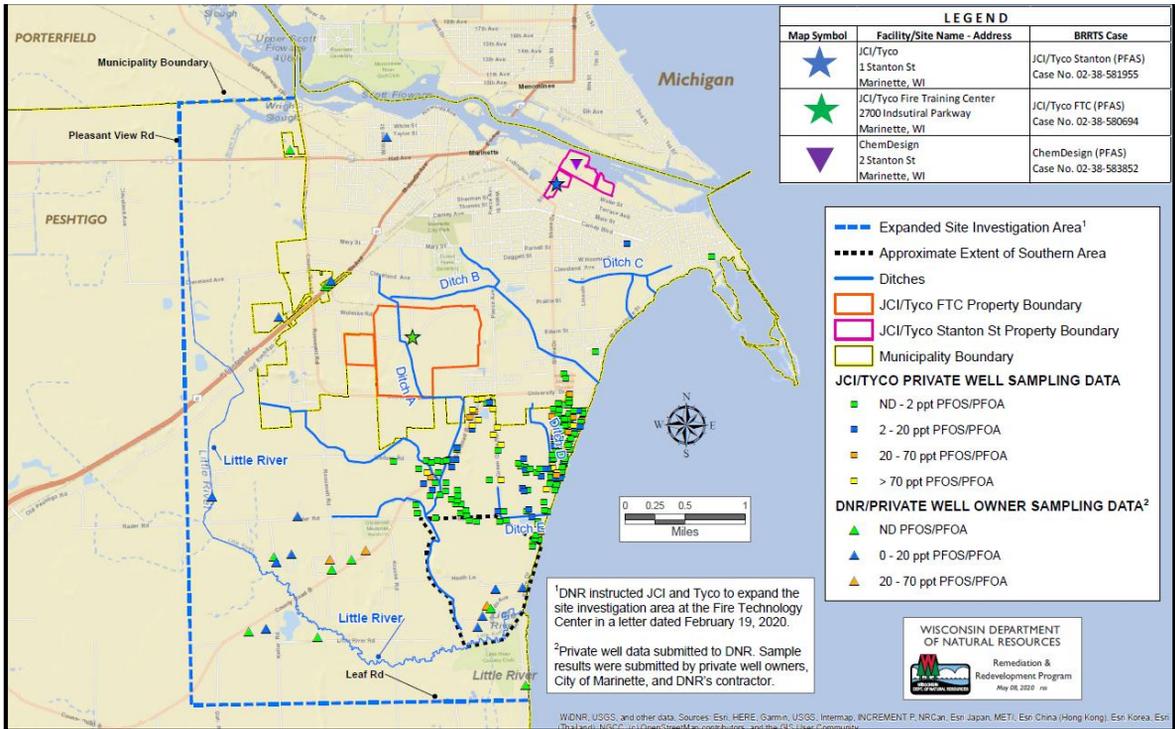
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Potable Well Sampling – Background

- DNR request to JCI/Tyco → sample additional potable wells in the Expanded Site Investigation Area accordance with state law
- JCI/Tyco refused
- DNR will identify if there is risk of PFAS exposure through drinking water



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DNR Potable Well Sampling Plan – Eligibility



Eligible wells:

- Potable wells in the defined sampling area (blue dotted line)
- Drinking water wells only (e.g. no irrigation wells, livestock wells, etc.)
 - Some exceptions

How will I know if my well is within the sampling area?

- Informational packets will be sent to all properties within the sampling area with an 'improved value' on their property tax record

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DNR Potable Well Sampling Plan – Well Owner Packets

- Packets will be sent to all properties with an 'improved value' on property tax record
- Packets will be sent week of 9/21 and 9/28
- All Packets received by 10/2/2020
- Packets will include:
 - 1) Letter (from DNR and contractor, Wood)
 - 2) Map and FAQs
 - 3) **Well Survey (questionnaire) → request for information about your well**
 - 4) **Access Agreement**



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DNR Potable Well Sampling Plan – Well Survey + Access Agreement

- Documents need to be returned via email (scanned copy) or USPS (pre-paid postage)
 - 1) **Well Survey (questionnaire)**
 - Requests information about the well(s) on well owner's property
 - 2) **Access Agreement**
 - Gives permission to DNR's contractor (Wood) to sample your well

Return ASAP - no later than October 23rd

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DNR Potable Well Sampling Plan – Sampling

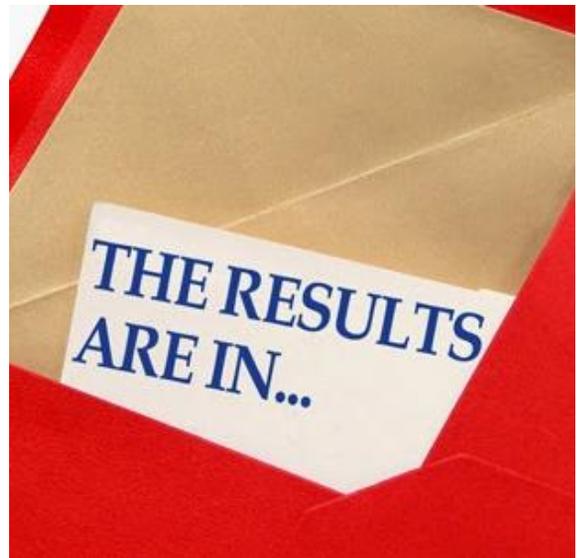
- Boots on the ground October 12
- Sampling coordinated with well owners as agreements are received
- Samples from outside spigots where possible (some exceptions)
- Water analyzed for 36 PFAS
- Sampling completed in 4-8 weeks
- COVID 19 considerations



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DNR Potable Well Sampling Plan – Results Reporting + Next Steps

- Sample results will be mailed to well owners within 10-days of receipt of data from lab (about 30 days after sampling)
- Sample results ≥ 20 ppt PFOS + PFOA → well owners called within 24-hrs of receipt of data
- Sample results ≥ 20 ppt PFOS + PFOA → well owners will be set up with an alternative water supply



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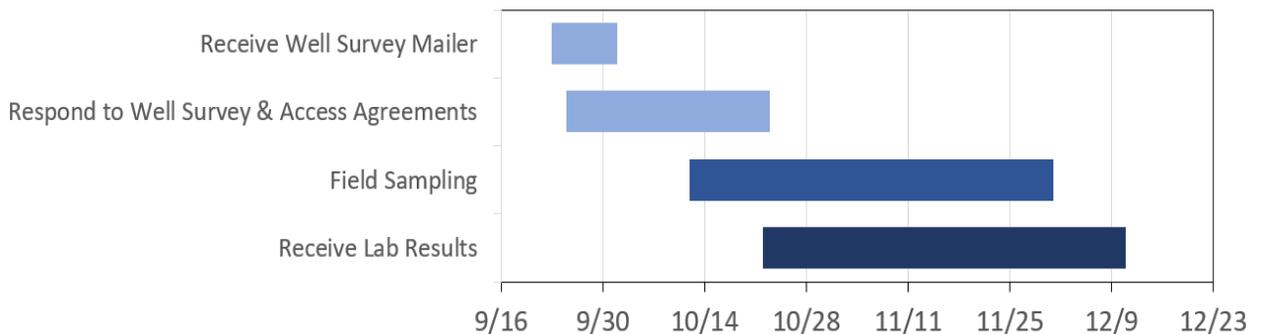
Alternative Water Supply

- Water supplied on a temporary basis
- Water supplied to well owners with sample results exceeding current recommended health standards (PFOA + PFOS)
- DNR will continue to pursue actions with Responsible Parties

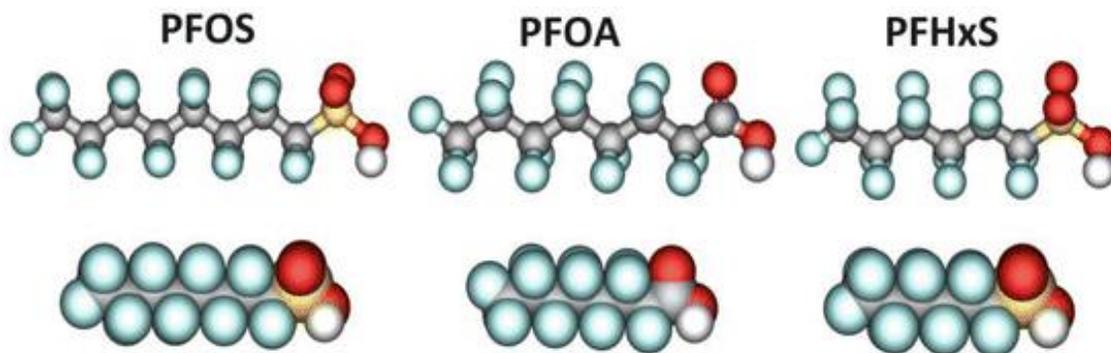


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DNR Potable Well Monitoring Schedule – Summary



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Sample Results: PFOS, PFOA, and 'Other' PFAS

- DHS recommended standards for PFOS + PFOA (June 2019)
- DHS is in the process of developing recommended standards for the other 34 analytes ("Cycle 11") (Fall 2020)
- DNR will review well sample data again after Cycle 11 recommendations have been made

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Sample Results – Understanding Potential PFAS Exposures

- Sample results are shared with DHS
- DHS evaluates sample results – well owners will be contacted if sample results warrant additional action
- If you have questions about health impacts related to PFAS sample results
 - Contact DHS at:
DHSEnvHealth@dhs.wi.gov
 - Or call: 608-266-1120



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FAQs

Frequently Asked Questions



- Do I have to pay for sampling?
 - *No, DNR is paying for the cost to collect and analyze a sample from your well*
- If my well was previously sampled by JCI/Tyco, will it be sampled again?
 - *No, the purpose of the sampling is to determine if there are PFAS in drinking water in areas that have not yet been tested*
- What if I live outside of the sampling area?
 - *At this time, DNR is only testing wells within the defined sampling area*

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DNR Potable Well Sampling – Additional Resources

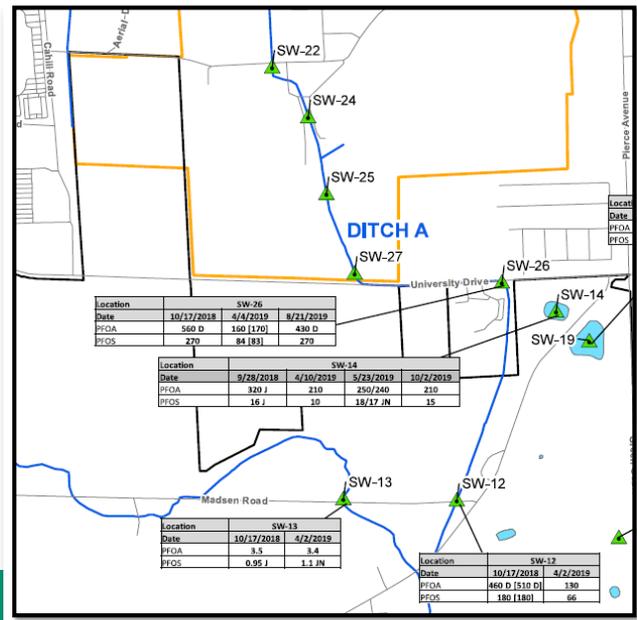
- **Call** 1-888-626-3244
- **Email** DNRJCIPFAS@wisconsin.gov
- **Website and FAQs**
<https://dnr.wi.gov/topic/Contaminants/Marinette.html>



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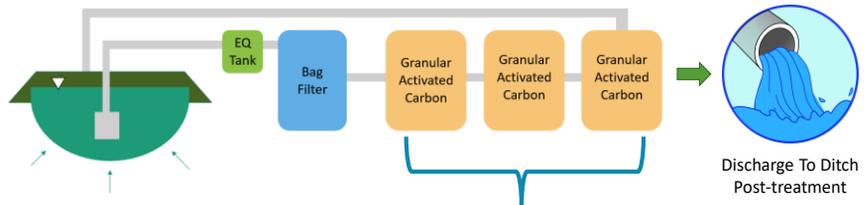
Surface Water Sampling Results – Ditches A + B

- JCI/Tyco in sampled in 2018 and 2019
- Surface Water Sampling Results (PFOA + PFOS):
 - **Ditch A:** max value > 6,000 ppt
 - **Ditch B:** max value > 4,000 ppt
- JCI/Tyco installed in-stream treatment systems to address high levels of PFAS



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Ditch A + B Treatment Systems

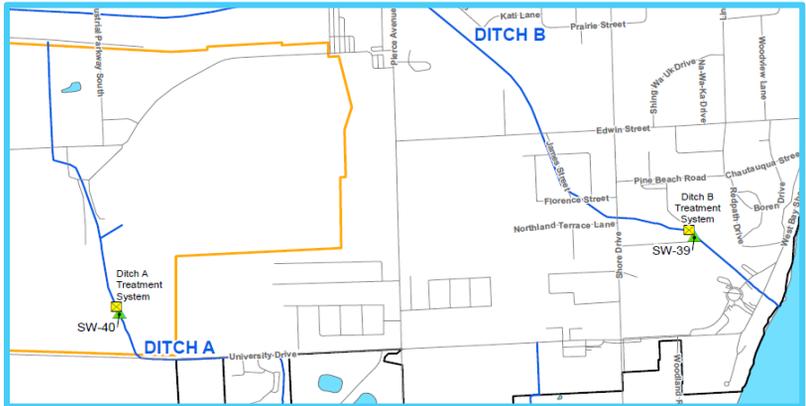


- Treatment systems were installed in Ditches A + B in 2019
- Maintained by JCI/Tyco
- Regulated under WPDES permit
- DNR requested downstream sampling



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Recent Surface Water Sampling Results – Ditches A + B



Surface Water Sample Results (PFOA + PFOS):

Ditch A: ~ 13 ppt

Ditch B: ~ 1,100 ppt

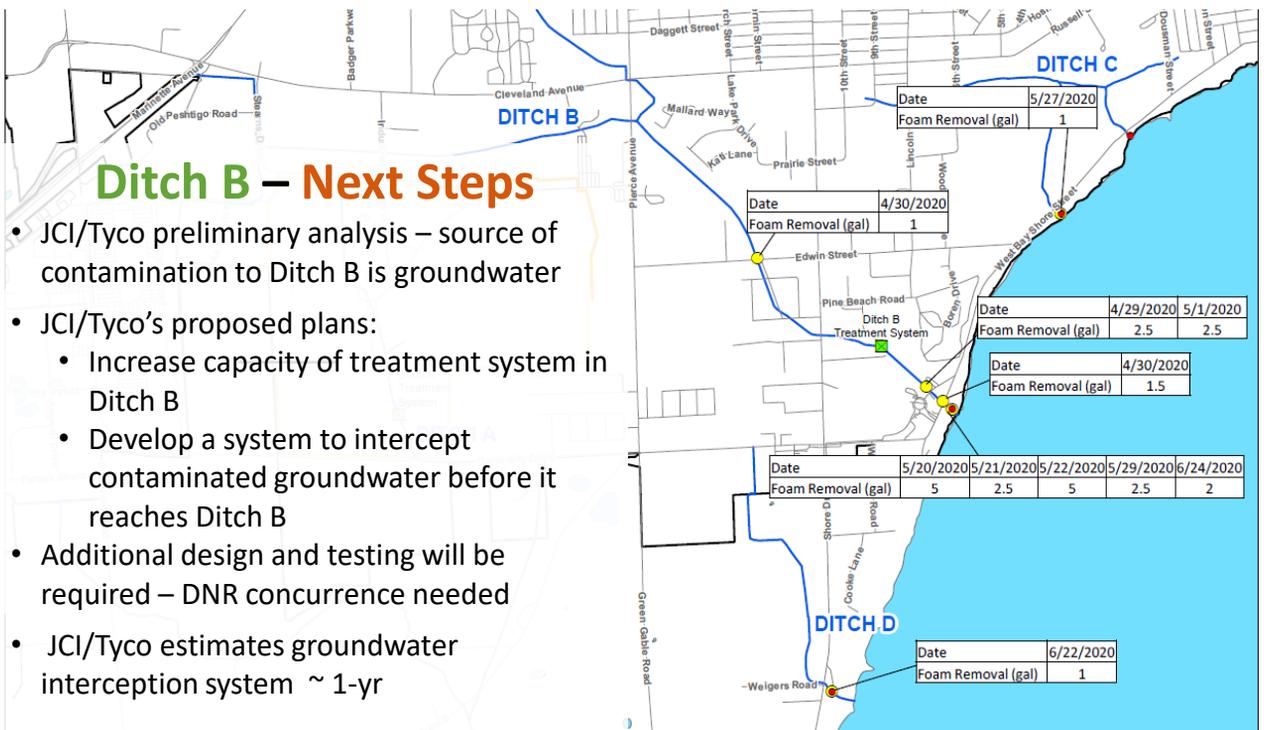


= In-stream treatment system



= Sample collection Point

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Ditch B – Next Steps

In the interim, DNR is directing JCI/Tyco to:

- 1) Collect and dispose of foam in Ditches A + B until a permanent solution is in place
- 2) Continue to monitor downstream of treatment systems Ditches A + B (at least quarterly; sample results within 10 days)
- 3) Review previous sign install and landowner notifications for necessary updates



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Source Control FTC – Next Steps

DNR has agreed to discuss long term remedial actions at the FTC with JCI/Tyco in October.

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Management of Firefighting Foam Containing PFAS

Jodie Peotter
WI Dept of Natural Resources

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Management of Firefighting Foam Containing PFAS

- As of September 1, 2020, s. 299.48, Wis. Stats prohibits the use of class B firefighting foams that contain intentionally added PFAS
 - When used as part of an emergency firefighting or fire prevention operation;
 - or
 - When used for testing purposes if appropriate containment, treatment and disposal or storage measures are in place

A MESSAGE FROM WISCONSIN DNR & WISCONSIN STATE FIRE CHIEFS ASSOCIATION

Firefighting Foam & PFAS in Wisconsin

PFAS (perfluorinated and polyfluorinated substances) are a group of synthetic materials used to help protect and prevent various substances from being soiled. They are most often in the environment from everyday long periods of time and they are not intended to be human body. Exposure to certain PFAS substances may cause adverse health effects. For the purpose of this document, the term "PFAS" refers to PFAS-containing firefighting foams with intentionally added PFAS.

Some firefighting foams currently used to suppress Class B and A/B fires are hard fire foams containing added PFAS. Effective Sept. 1, 2020, state law bans when these foams can be used in emergency situations where health and the environment. (Wis. Stats. Sections 299.48, 299.49, 299.50, 299.51, 299.52, 299.53, 299.54, 299.55, 299.56, 299.57, 299.58, 299.59, 299.60, 299.61, 299.62, 299.63, 299.64, 299.65, 299.66, 299.67, 299.68, 299.69, 299.70, 299.71, 299.72, 299.73, 299.74, 299.75, 299.76, 299.77, 299.78, 299.79, 299.80, 299.81, 299.82, 299.83, 299.84, 299.85, 299.86, 299.87, 299.88, 299.89, 299.90, 299.91, 299.92, 299.93, 299.94, 299.95, 299.96, 299.97, 299.98, 299.99, 300.00)

When PFAS Foams Can & Cannot Be Used

PROHIBITED:
TRAINING with foams that include intentionally added PFAS is prohibited by law effective Sept. 1, 2020. On this date, the following exemptions and requirements apply:

ALLOWED:

- PFAS-containing foams CAN BE USED for EMERGENCY firefighting & fire prevention operations.
 - Take measures to prevent discharge into lakes, streams, rivers & sewers, per NR 708.
 - Safety Data Sheets from the foam manufacturer must be acquired, retained & available.
- PFAS-containing foams CAN BE USED for TESTING purposes.
 - Testing facilities must contain, store, treat & dispose of foam appropriately.
 - Flushing or draining foam into storm or sanitary sewers is PROHIBITED.

When PFAS foam is discharged to the environment, immediately call the 24-hour Emergency Hotline: 1-800-943-0003
*Without hindering firefighting or fire prevention operations.

WHEN PFAS-CONTAINING FOAM IS USED FOR EMERGENCIES OR TESTING

Storage Use secondary containment when storing foam. Cover small leaks can cause environmental impacts.	Emergencies Work with the DNR and responsible parties to contain deployed foam, limit environmental impacts to the extent practicable, and immediately report the discharge.	Disposal Develop a disposal plan for foam containers and recovered foam solutions with environmental and hazardous waste disposal contractors.
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Upcoming Important Dates – NRB Hearing for WA-O6-20E (NR 159)

- Act 101 also requires the DNR to promulgate rules to implement s. 299.48, Wis. Stats., including appropriate containment, treatment, and disposal or storage measures
- Draft rule presented to NRB in August 2020 – decision to adopt rule was tabled following testimony received
- Draft rule to be presented to NRB October 28, 2020
- **More info on web:**
 - DNR Homepage: search 'AFFF' → follow link to website



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**Comments Due by
11am on October 23rd**

Opportunity for Public Input

- To submit written comments, or to register to speak at a Board meeting, contact:
 - Laurie J. Ross, Board Liaison
Office of the Secretary
Laurie.Ross@wisconsin.gov
608-267-7420
PO Box 7921
Madison WI 53707-7921

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Upcoming Important Dates

September 24th

- Virtual Public Hearing: Stanton St WPDES permit – submit comments to Trevor.Moen@wisconsin.gov
 - *Additional information on web*

October 2nd

- Potable well sampling letters in mailboxes

October 23rd

- Deadline for comments on AFFF Rule

October 28th

- NRB Meeting: AFFF Rule - Public Input Opportunity

November 18th

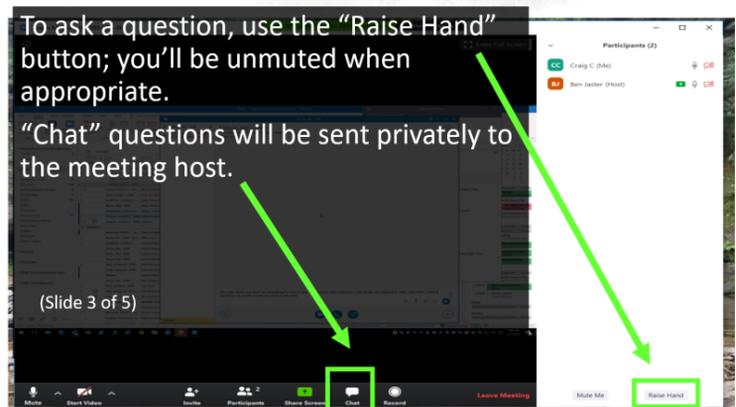
- Next Listening Session



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Ground Rules – Listening Session

- Use the **'chat'** feature or **'raise hand'** feature to request to be unmuted to ask a call
- 3-mins per person → everyone has the opportunity to voice concerns
- Keep comments constructive
- Attack the problem not the person



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