PFAS Contamination

Marinette, Peshtigo, and Surrounding Communities

Listening Session 9 ▪ July 15, 2020

WISCONSIN DEPT. OF NATURAL RESOURCES

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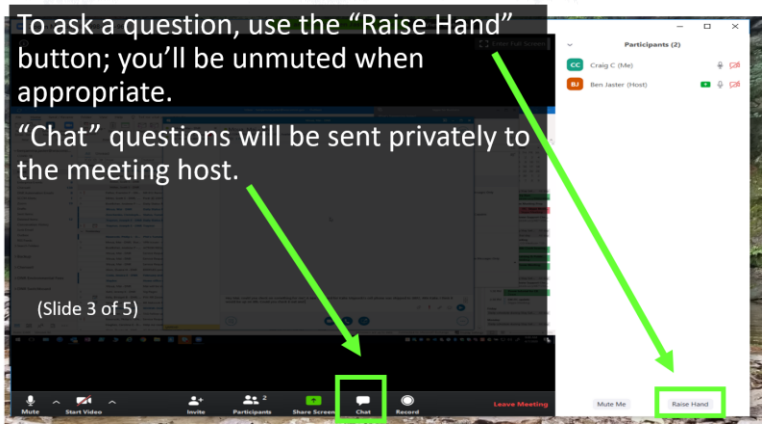
What to Expect from this Listening Session

'Zoom' Technology

- All attendees are automatically muted when they join the call
- If you are joining by web:
  - **<u>During the presentation</u>** – use **'chat'** feature to type questions
  - **<u>After presentation</u>** – 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 (next slide)



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Staying Connected

- **Today - 9th in series of sessions**
  - Meetings every other month
  - Next meeting in September
- **Other options for contacting DNR**
  - Call (888-626-3244) or
  - email DNRJCIPFAS@wisconsin.gov
- **Also – check out website and FAQs** https://dnr.wi.gov/topic/Contaminants/Marinette.html
  - ***Subscribe for updates:*** Subscribe to Marinette and Peshtigo area PFAS contamination updates.

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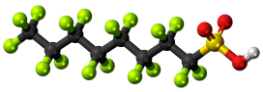

Welcome and Agenda

Presentation:

- Overview: Addressing PFAS Contamination
- Update on Site Investigations
  - FTC
  - Stanton Street
  - Biosolids Landspreading Fields
- Other Initiatives
  - Air
  - Deer
- Upcoming Important Dates

Listening Session:

- Question + Answer Session

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PFAS 101:
Where Can I find Additional Information?

- DNR Homepage → Search Bar: 'Marinette' → *PFAS Contamination Marinette + Peshtigo Area*
- Under Public Meetings: Previous session presentations and Zoom recordings → meetings 7 and 8
- Call (888-626-3244) or
- email DNRJCIPFAS@wisconsin.gov

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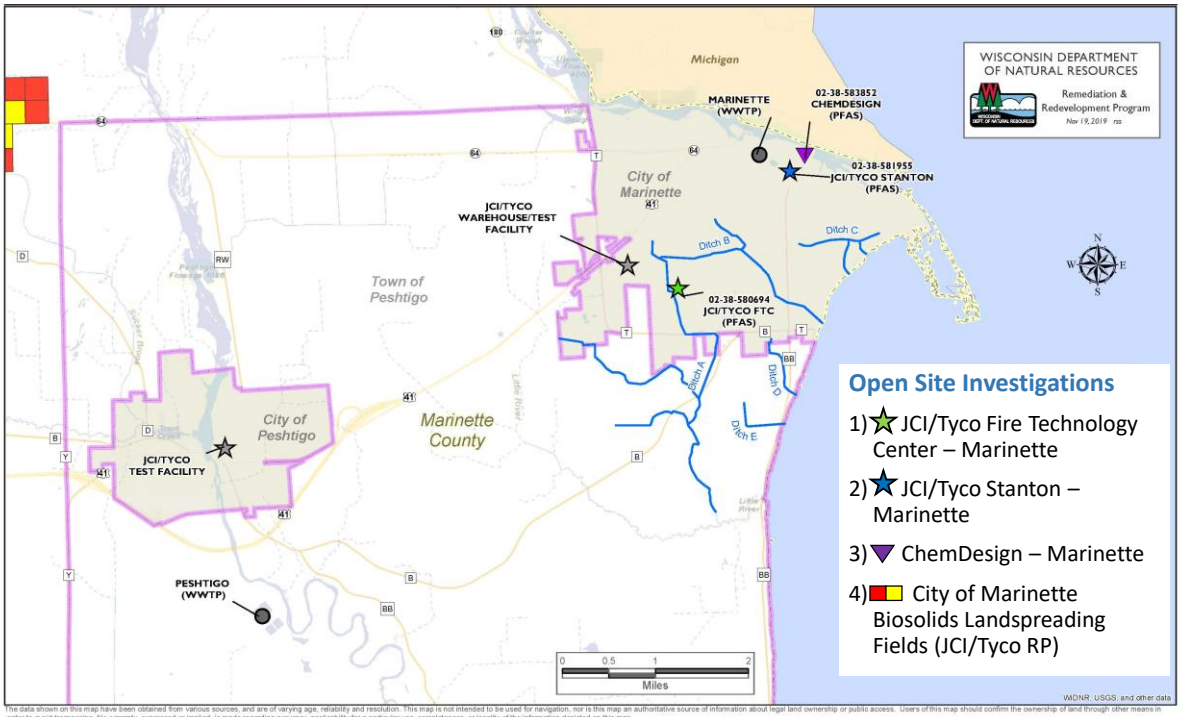

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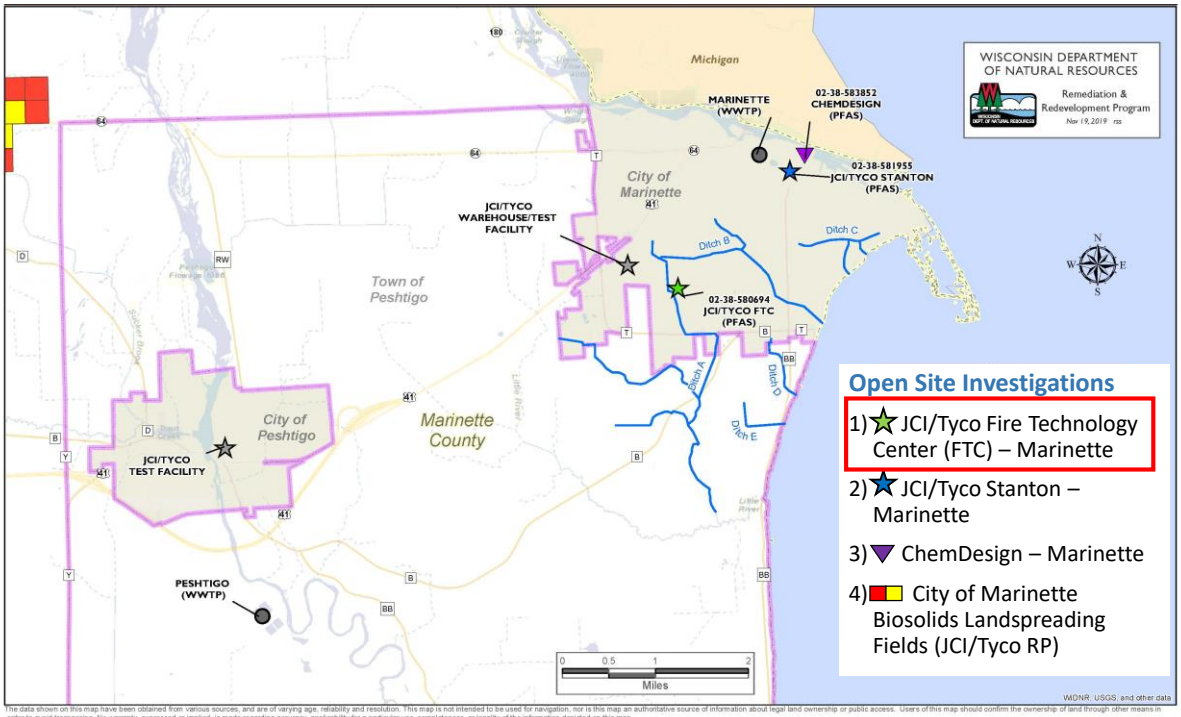

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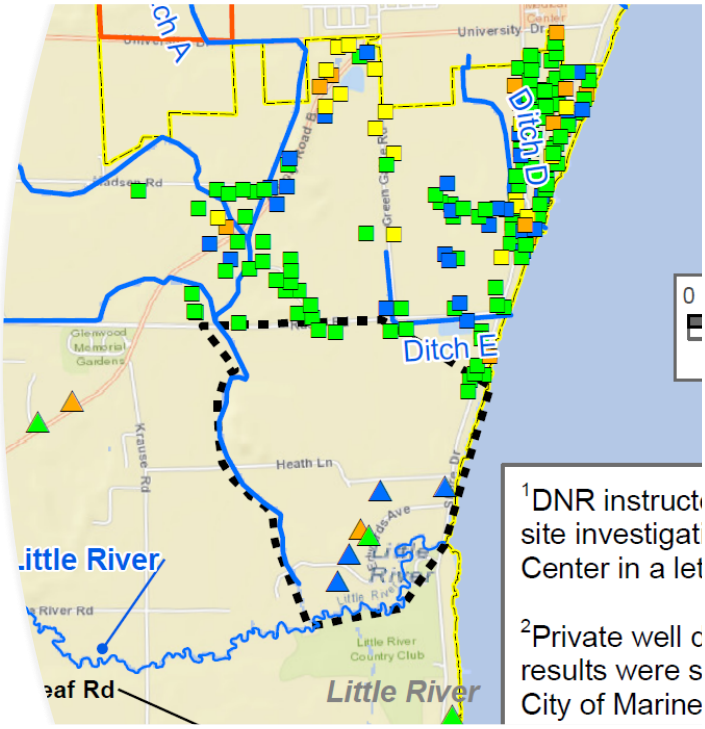
FTC Update

- DNR issued response to JCI/Tyco 'Southern Area' Report
- JCI/Tyco described this area as being disconnected from PFAS discharged from FTC → other local sources are the cause
- DNR does not concur
  - Additional site investigation necessary
  - Data gaps and screening methods



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Foam on Waterways

- DNR directed JCI/Tyco to:
  - Monitor foam activity daily
  - Install booms
  - Remove foam and have it tested for PFAS

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Foam on Waterways

- DNR received report from JCI/Tyco on July 10, 2020
  - Visual observations of foam in ditches A – E
  - Foam collection activities
- Approximately 26 gallons of foam collected on the waterways between April and July
- Foam to be tested for waste characterization and will be disposed of accordingly

Ditch B – 200 yards upstream of ditch mouth

Ditch D – Southeast side of Shore Crossing Dr

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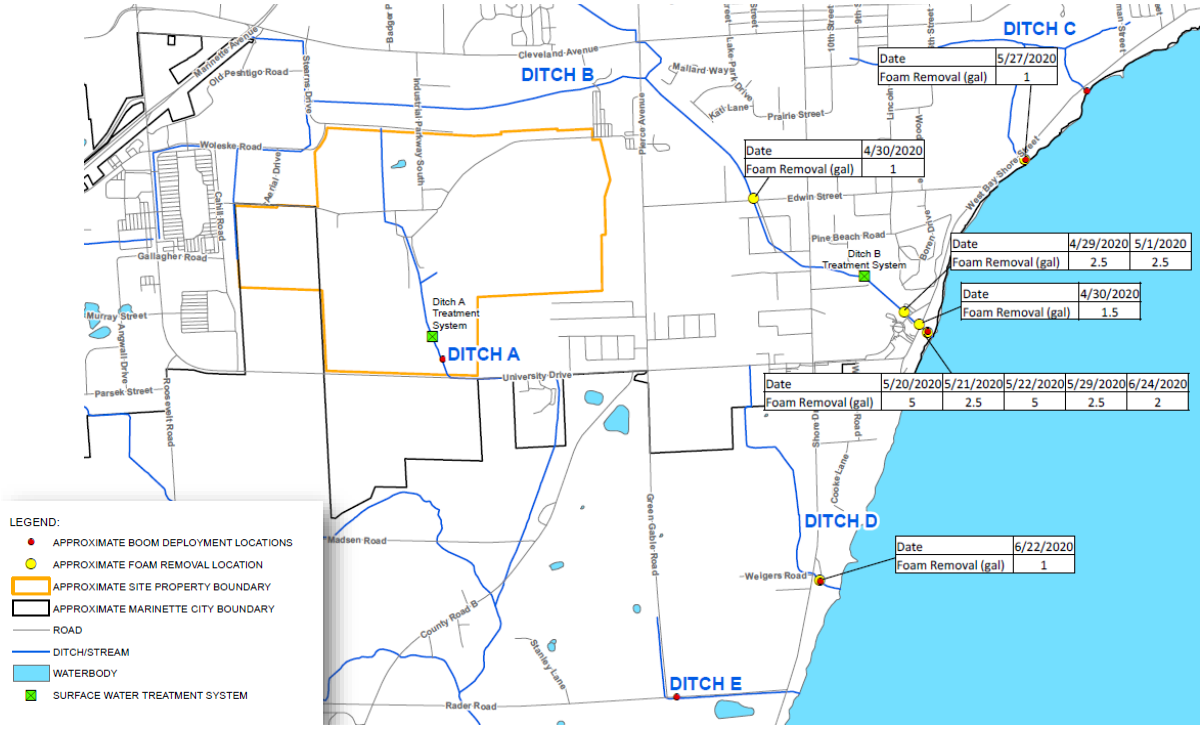

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Drinking Water and Groundwater

Kyle Burton

Field Operations Director

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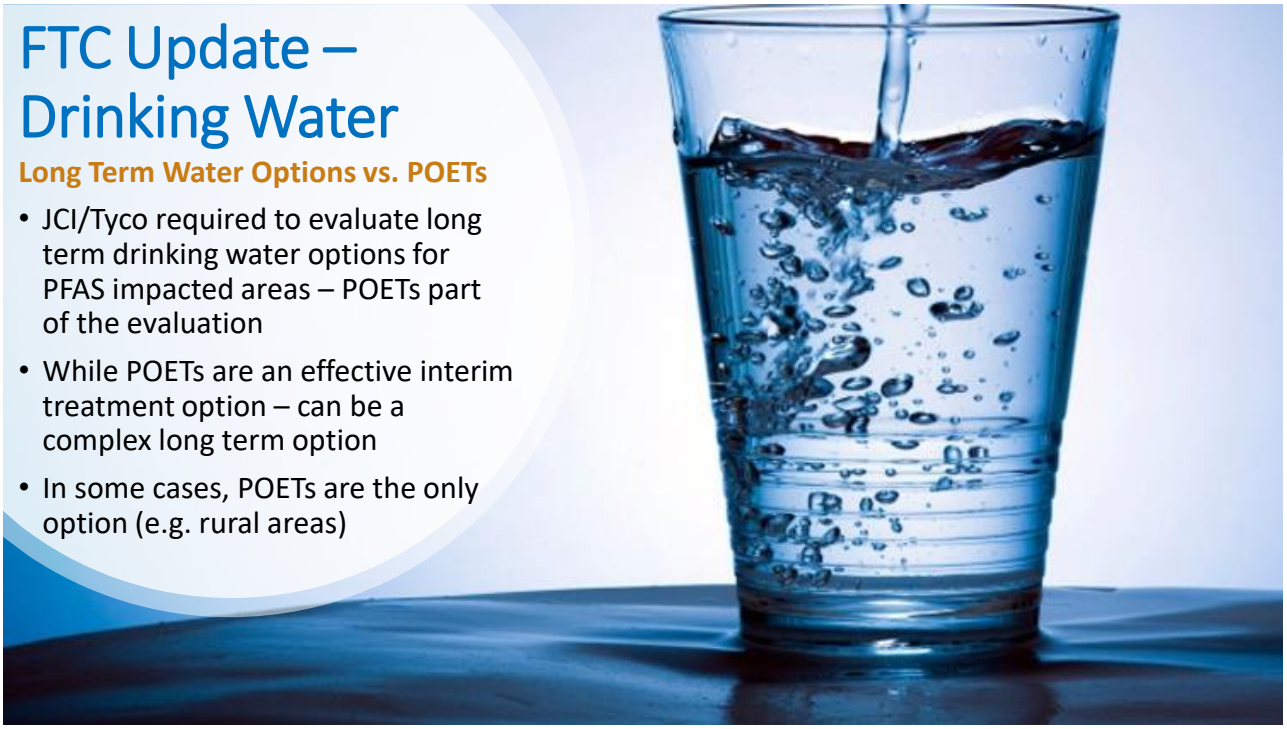
FTC Update – Drinking Water

Long Term Water Options vs. POETs

- JCI/Tyco required to evaluate long term drinking water options for PFAS impacted areas – POETs part of the evaluation
- While POETs are an effective interim treatment option – can be a complex long term option
- In some cases, POETs are the only option (e.g. rural areas)



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FTC Update – New Testing Facility Construction

- JCI/Tyco applied for stormwater permit (BMPs for erosion control) → permit issued
- JCI/Tyco applied for construction dewatering permit → permit issued
- Construction started in June 2020
- On 7.14.20 JCI/Tyco submitted construction plans and permit application for waste water treatment facility → AFFF waste water + other process water
- DNR met with JCI/Tyco to discuss purpose of facility – regulatory approvals may be necessary

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FTC Update

- **DNR issued a letter to JCI/Tyco on July 7, 2020 – Notice of Intent to Incur Expenses**
  - Third and final notice to JCI/Tyco to address potable wells around the FTC site
  - Required response actions of JCI/Tyco under state law – not voluntary
  - No affirmative response by July 13, 2020 – DNR will perform the necessary actions
- **JCI/Tyco responded on July 13, 2020**
  - JCI/Tyco's letter states that areas to be sampled as requested by DNR are not connected to JCI/Tyco facilities → effectively No

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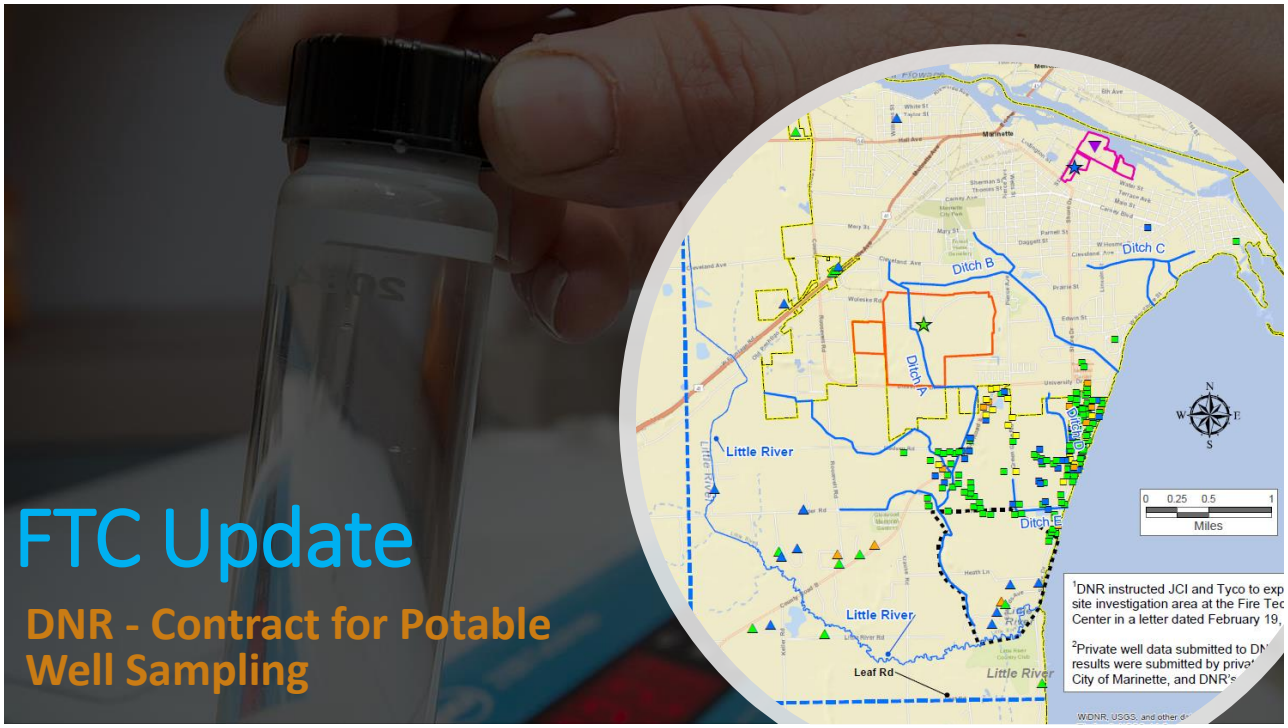

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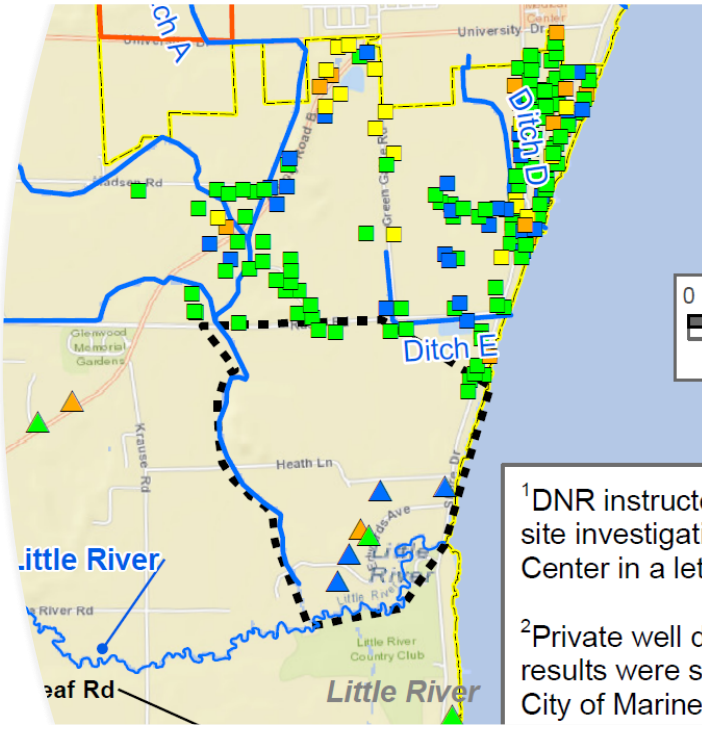
FTC Update

What's next?

- DNR review of JCI/Tyco Submittals
  - CSM
  - Aerial Deposition Eval Report
  - Interim Site Investigation Report
  - SIWP – Sampling downstream of ditch A and B
- JCI/Tyco
  - Additional sampling in southern area
  - Evaluation of long term water options
  - Evaluation of remedial strategies



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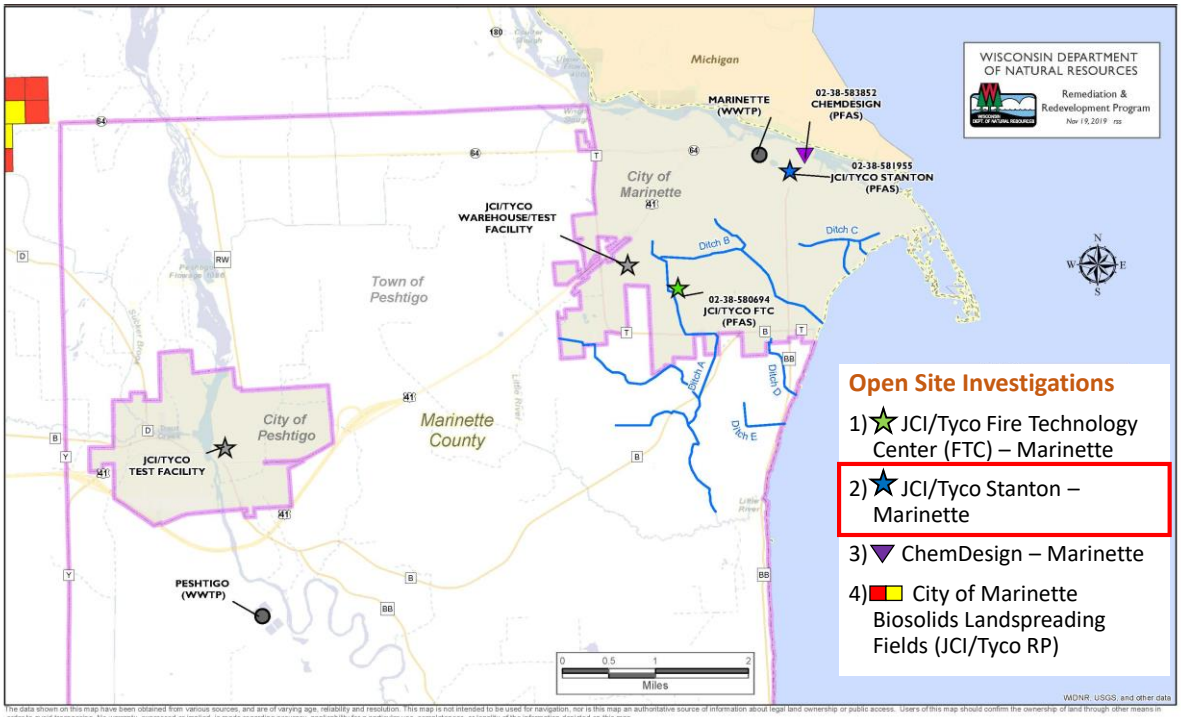

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Waste Water Permitting

Heidi Schmitt Marquez

Waste Water Field Supervisor – NER

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WPDES Permits – Overview

- Wisconsin Pollution Discharge Elimination System
- "Wastewater Permit" issued by DNR to industrial and municipal facilities
- Permits contain monitoring requirements, reporting and compliance schedules, contaminant discharge levels

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WPDES Permits – JCI/Tyco Facilities Stanton St Campus

- Tyco Fire Products WPDES permit re-issuance process initiated
- Establishes limits for PFOS and arsenic (no PFOA limit)
- Testing required for PFOA and PFOS and arsenic
- Proposed effective date *Dec 1, 2020**
- Public comment period for permit re-issuance *in September 2020** for 45 days
- DNR will issue Gov Delivery reminder when public comment period is open

***Dates are subject to change**

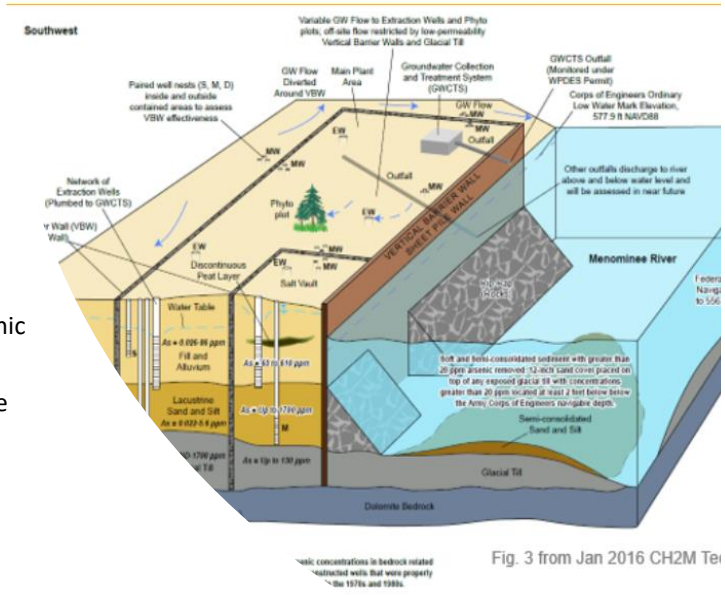

Fig. 3 from Jan 2016 CH2M Te

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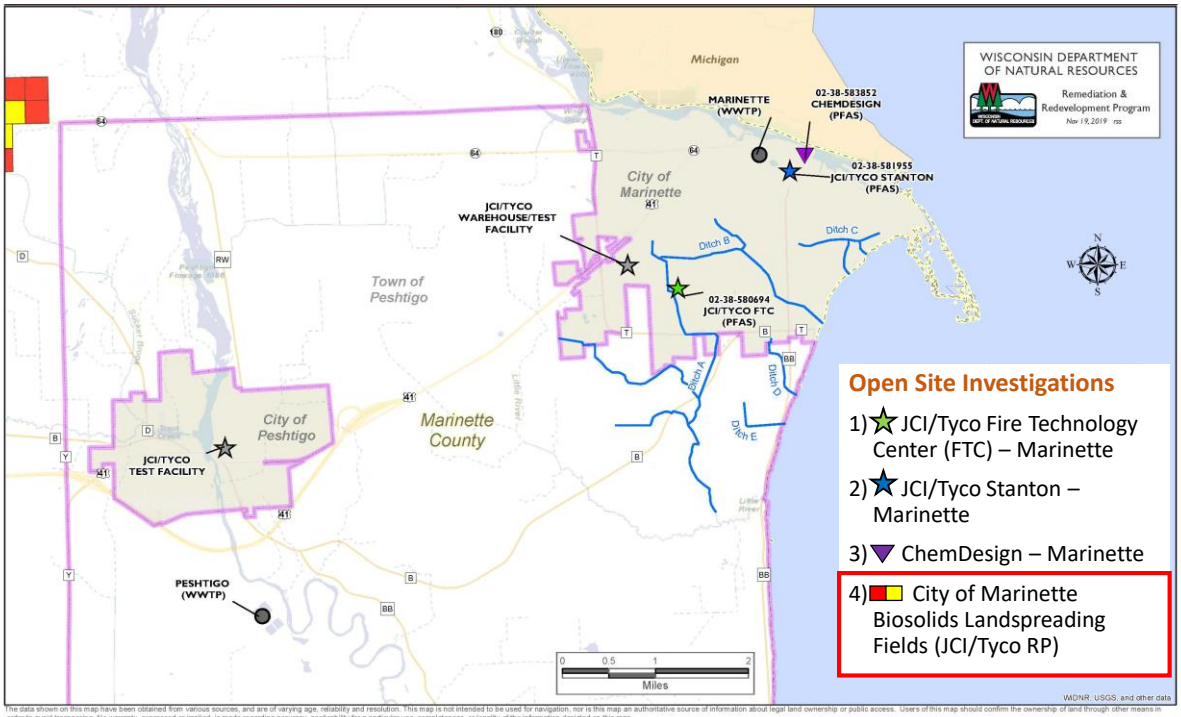

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Private Well Sample Results and PFAS "Standards"

- No federal standards for PFAS – health advisory level of 70 ppt PFOA + PFOS
- No WI standards for PFAS - recommendation from DHS of 20 ppt PFOA + PFOS
- DNR request to DHS to evaluate 34 other PFAS analytes for potential standards recommendations
- Testing is required 36 different PFAS analytes → if other standards are recommended for other PFAS analytes in the future – we have the data
- Bottled water for wells > 20 ppt PFOS + PFOA
- DHS works directly with landowners for 'other' PFAS detects

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Biosolids Landspreading Fields – Potable Well Sampling

- Potable wells identified within 1,200-ft of landspread fields
- 180 wells identified for sampling
- 179 wells sampled

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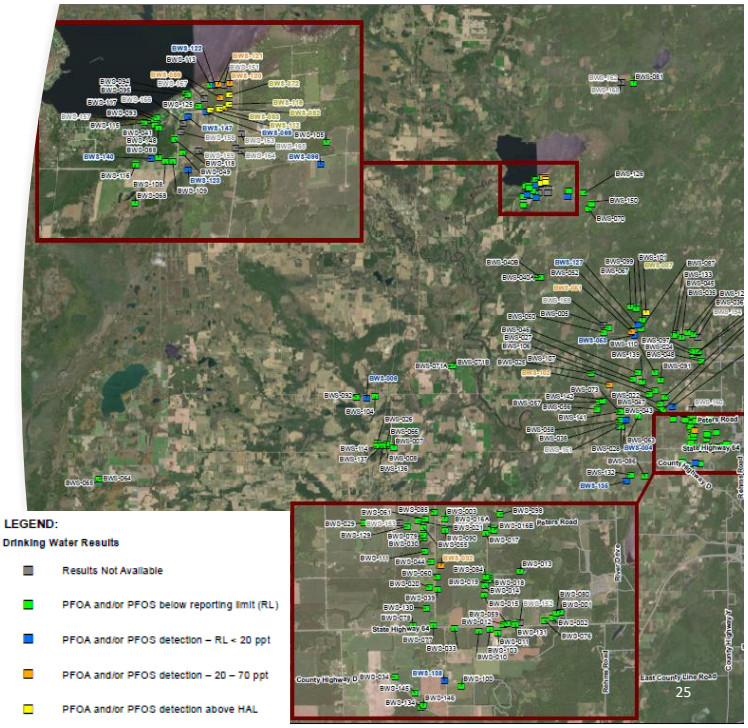
Biosolids Landspreading Fields – Potable Well Sample Results

PFOA + PFOS

- 129 wells < BRL (no detection)
- 15 wells < 20 ppt
- 14 wells > 20 ppt
- 158 well results received to date (22 pending results)
- Bottled water provided to any landowner with sample results > 20 ppt PFOA + PFOS



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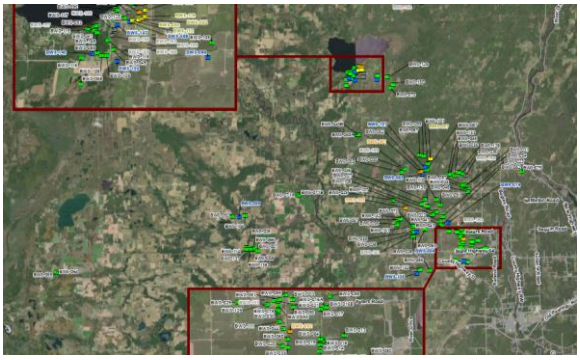
Biosolids Landspreading Fields – Potable Well Sample Results

'Other' PFAS (e.g. FOSA, PFHxS)

- 122 wells with 'other' PFAS detected above reporting limits
  - Values ranging from RL – 2,400 ppt
- 36 wells below reporting limit
- 158 well results received to date (22 wells pending results)
- DHS reaches out to these folks to communicate about actions that may be necessary to eliminate potential PFAS exposures

Data Report: click here



APPLIED BIOSOLIDS - PRIVATE DRINKING WATER WELL PFAS SAMPLING RESULTS - MARINETTE AND OCONTO
PRELIMINARY DATA IS PRESENTED BELOW. DATA VALIDATION ON RESULTS IS PENDING.

cation	Sample Date	PFOA	PFOS	PFBS	PFHpA	PFHxS	PFNA	PFDA	PFDoA	PFHxA	PFTeA
S-001	3/2/2020	< 1.7	< 1.7	< 1.7	**0.53 J**	< 1.7 UB	< 1.7	< 1.7	< 1.7	**1.1 J**	< 1.7
S-002	3/2/2020	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7 UB	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
S-003	3/2/2020	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8 UB	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
003 DUP	3/2/2020	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8 UB	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
S-004	3/2/2020	**3.4**	**3.0**	< 1.8	**1.0 J**	< 1.8 UB	< 1.8	< 1.8	< 1.8	**0.63 J**	< 1.8
S-005	3/2/2020	**1.3 J**	< 1.7	**2.7**	**1.6 J**	< 1.7 UB	< 1.7	< 1.7	< 1.7	**57**	< 1.7 UJ
S-006	3/2/2020	**1.1 J**	**2.3 JN**	**0.80 J**	**0.34 J**	< 1.7 UB	< 1.7	< 1.7	< 1.7	**0.59 J**	< 1.7
S-007	3/2/2020	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6 UB	< 1.6	< 1.6	< 1.6	< 1.6	**0.29 J**
S-008	3/2/2020	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9 UB	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
S-009	3/2/2020	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8 UB	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
S-010	3/3/2020	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7 UB	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
010 DUP	3/3/2020	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8 UB	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
S-011	3/3/2020	**0.82 J**	< 1.9 UB	< 1.9	< 1.9	< 1.9 UB	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
S-012	3/3/2020	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7 UB	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7

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Biosolids Landspreading Fields – What's Next

- First → collect private well data – rule out risk associated with water consumption
- Then → early evaluations to understand cause and significance of detections and data trends
- Next → Additional site investigation activities → explain cause and significance and document degree and extent of contamination

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Other Initiatives

- Air Deposition
- Deer Tissue Study

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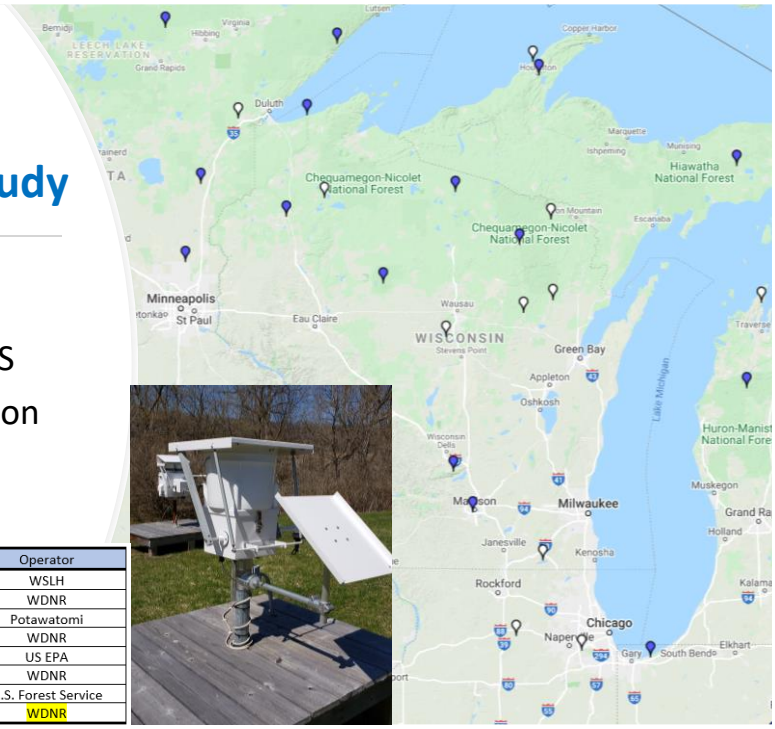
DNR Air Management Program Precipitation Study

- **8** Active sites in WI
- Precipitation is collected weekly and analyzed for PFAS
- Marinette site began collection July 14, 2020



NTN Site ID	Site Name	Location	Operator
WI06	UW-Arboretum	Dane County	WSLH
WI08	Brule River	Douglas County	WDNR
WI10	Potawatomi	Forest County	Potawatomi
WI31	Devil's Lake Park	Sauk County	WDNR
WI35	Perkinstown	Taylor County	US EPA
WI36	Trout Lake	Vilas County	WDNR
WI37	Spooner	Washburn County	U.S. Forest Service
TBD	Marinette	Marinette County	WDNR

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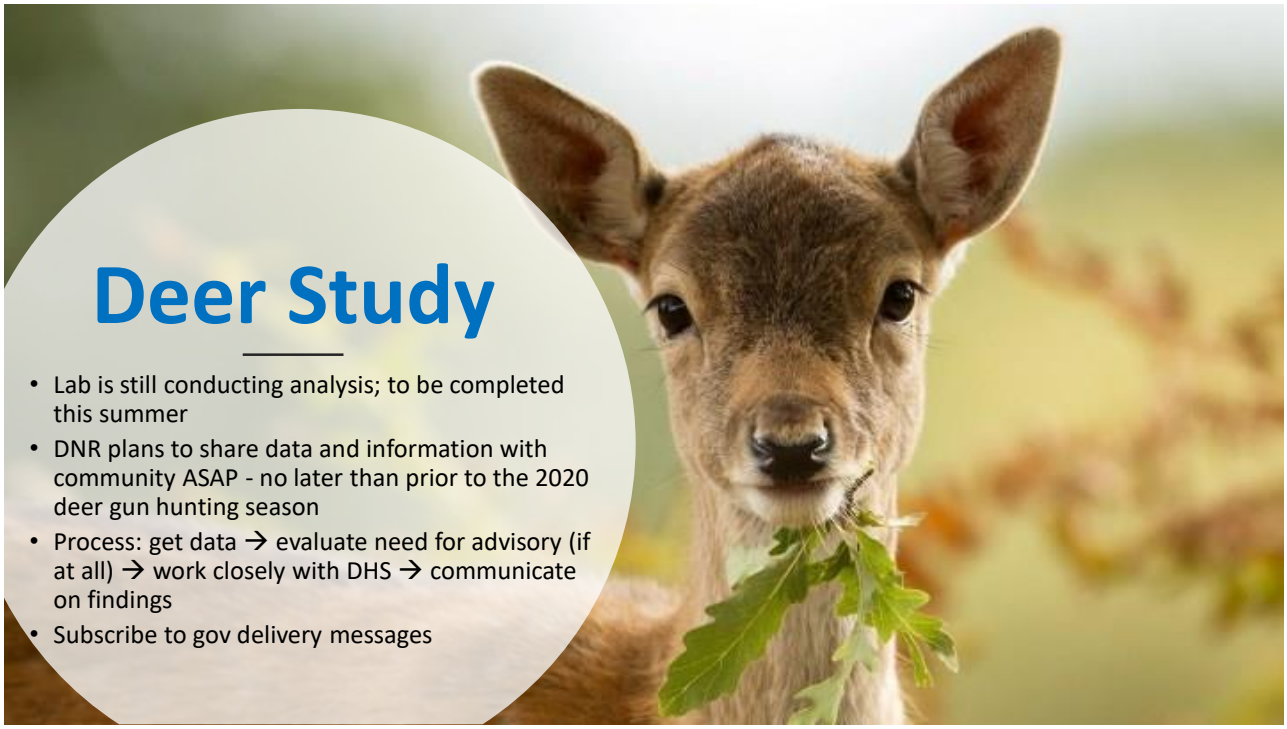

Deer Study

- Lab is still conducting analysis; to be completed this summer
- DNR plans to share data and information with community ASAP - no later than prior to the 2020 deer gun hunting season
- Process: get data → evaluate need for advisory (if at all) → work closely with DHS → communicate on findings
- Subscribe to gov delivery messages

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Upcoming Important Dates

July

- DNR review of JCI/Tyco submittals

July/August

- DNR work to execute private well sampling contract

September

- Waste water public comment for WPDES permit for Stanton St
- Listening Session Sept 16th

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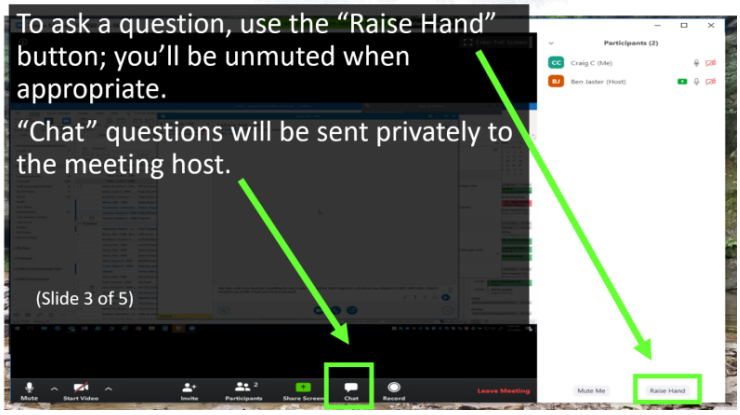
Ground Rules – Listening Session

- 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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