

Addressing PFAS

Marinette, Peshtigo & Surrounding Communities

Listening Session 20

Northeast Wisconsin Technical College - Marinette
September 11, 2025

Welcome

- Christine Sieger | DNR Director, *Remediation and Redevelopment*
- Alyssa Sellwood | DNR Project Manager, *Remediation and Redevelopment*
- Kyle Burton | DNR Field Operations Director, *Drinking Water And Groundwater*
- Heidi Schmitt-Marquez | DNR Supervisor, *Water Quality*
- Duncan Moss | DNR Attorney
- Nathan Kloczko | DHS Health Assessor

- Other Staff via Zoom

Meeting Agenda

- **Part 1: Presentation**
 - PFAS Health Guidelines (DHS Updates)
 - Safe drinking water to impacted private wells
 - PFAS investigation and cleanup
- **Part 2: Public Questions and Comments**



PFAS Refresher

PFAS = Per- and Poly-fluoroalkyl Substances

What are PFAS?

PFAS are a group of human-made chemicals used for decades in numerous products.



stain-resistant carpet & fabric



non-stick cookware



firefighting foam



fast food packaging

Products that **may contain PFAS.**

Visit dnr.wi.gov, search PFAS.





WISCONSIN DEPARTMENT
of HEALTH SERVICES

An Update on PFAS Health Guidelines

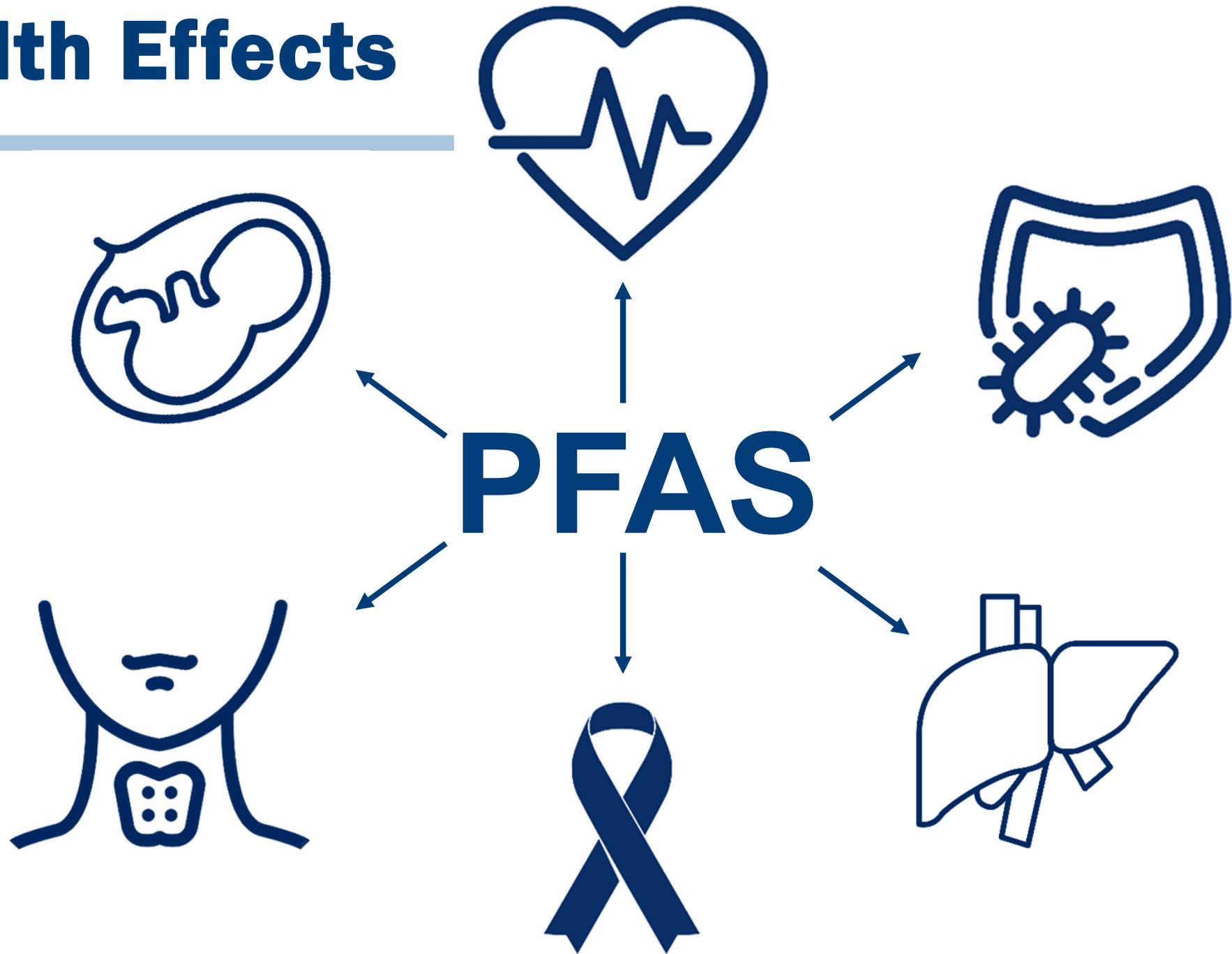
Nathan Kloczko | Health Assessor

Agenda

- Drinking Water and Groundwater Health Guidelines
- Fish and Wildlife Consumption Advisories



Health Effects





Drinking Water and Groundwater Health Guidelines



Cycle 12 Recommended Standards

- Sent letter to DNR with recommendations in February 2025
- Recommendations set based on federal maximum contaminant levels
- Health Advisory Levels for certain PFAS also updated



Recommended Groundwater Standards

Compound	Previous Guideline	New Recommendation
PFOA	20*	4
PFOS	20*	4
PFHxS	40	10
PFNA	30	10
HFPO-DA (GenX)	300	10
PFBS	450,000	2000

All units in nanograms per liter (ng/L), equivalent to parts per trillion (ppt)

*Sum of PFOA, PFOS, and precursors



Health Advisory Levels

Compound	Previous Guideline	New Recommendation
FOSA	20*	4
NEtFOSA	20*	4
NEtFOSAA	20*	4
NEtFOSE	20*	4

All units in nanograms per liter (ng/L), equivalent to parts per trillion (ppt)

*Sum of PFOA, PFOS, and precursors



Cumulative Approach

- Hazard index (HI) approach still used, excluding PFOA, PFOS, and precursors
- Observed PFAS levels compared against health guidelines, then fractions summed
- HI above 1.0 indicates a potential health risk



2025 Groundwater Health Guidelines

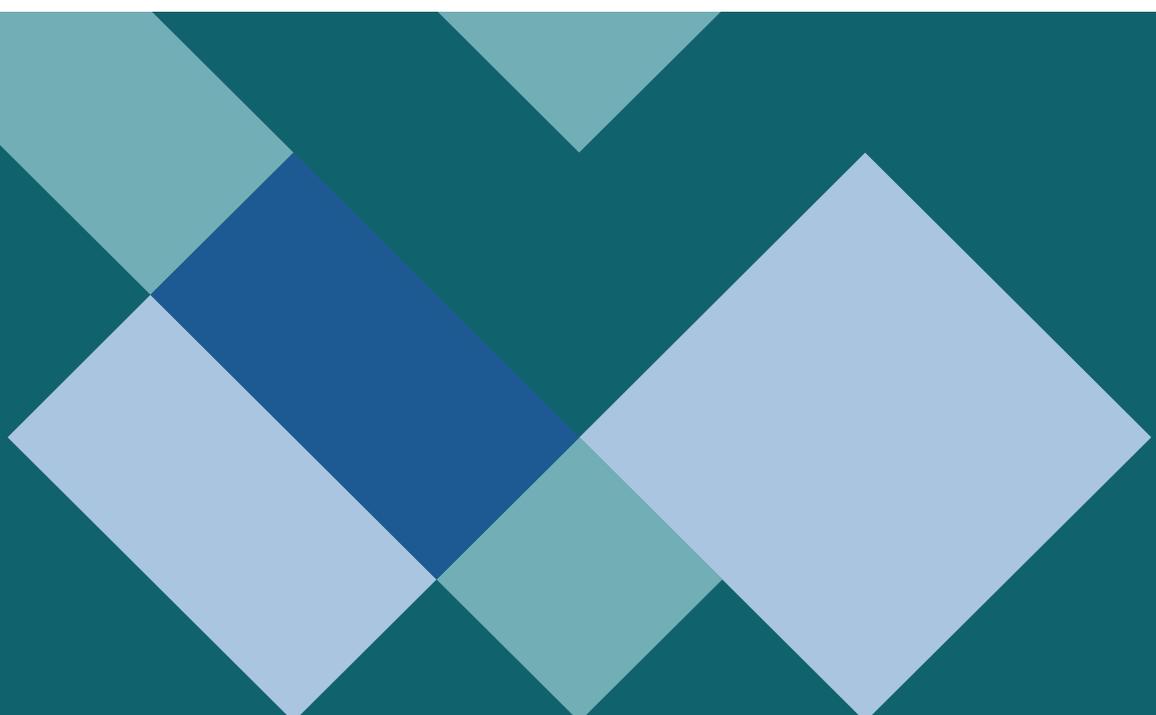
All units in ng/L

PFOA = 4	PFNA = 10	PFUnA = 3,000
PFOS = 4	PFHxS = 10	PFBA = 10,000
FOSA = 4	GenX = 10	PFTeA = 10,000
NEtFOSA = 4	PFDA = 300	PFHxA = 150,000
NEtFOSAA = 4	PFDoA = 500	PFODA = 400,000
NEtFOSE = 4	DONA = 3,000	PFBS = 2,000

Assessed individually

Assessed for cumulative risk





Fish and Wildlife Consumption Advisories



Existing Fish Consumption Advisories

Green Bay and its Tributaries

GUIDELINES FOR EVERYONE (PCBS)					
GUIDELINES FOR EVERYONE (PFOS)					
Species	Unrestricted	Up to 1 meal per week	Up to 1 meal per month	Up to 6 meals per year	Do not eat
Brown trout			Under 26"	Over 26"	
Burbot		All sizes			
Carp					All sizes
Channel catfish				All sizes	
Chinook salmon			All sizes		
Freshwater drum			All sizes		
Lake whitefish			All sizes		
Musky					All sizes
Northern pike		Under 27"	Over 27"		
Rainbow trout			All sizes		
Rainbow smelt		All sizes			
Rock bass		All sizes			
Smallmouth bass			All sizes		
Sturgeon					All sizes
Walleye			All sizes		
White bass			All sizes		
White perch			All sizes		
White sucker		All sizes			
Yellow perch		All sizes			

Menominee River

CONSUMPTION GUIDELINES (MERCURY)					
GUIDELINES FOR EVERYONE (PCBS)					
Species	Unrestricted	Up to 1 meal per week	Up to 1 meal per month	Up to 6 meals per year	Do not eat
Menominee River: Lower Scott Flowage					
All panfish		All sizes 🐟	All sizes 🐟🐟		
Walleye			Over 16" 🐟		Over 16" 🐟🐟
Menominee River: Piers Gorge to Lower Scott Flowage					
Carp			All sizes		
Lake sturgeon					All sizes
Walleye			Over 20" 🐟		Over 20" 🐟🐟
Menominee River: Twin Falls Flowage					
Northern pike			Over 21" 🐟		Over 21" 🐟🐟



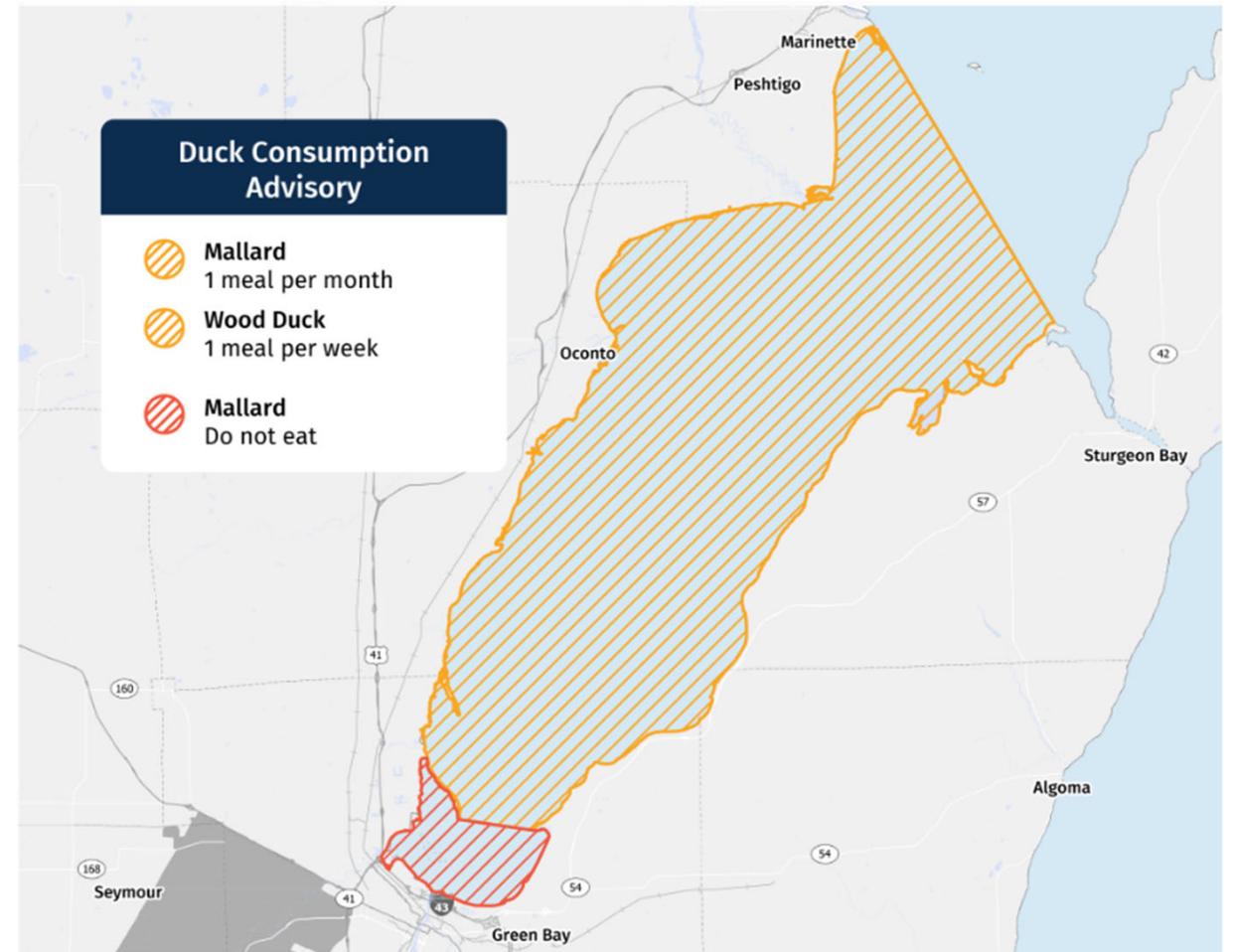
Existing Deer Liver Advisory

- Do Not Eat advisory for deer liver within 5 miles of Marinette



New Duck Advisory – Green Bay

- Lower Green Bay advisory reach: Do Not Eat mallards
- Upper Green Bay advisory reach:
 - 1 meal/month mallards
 - 1 meal/week wood ducks

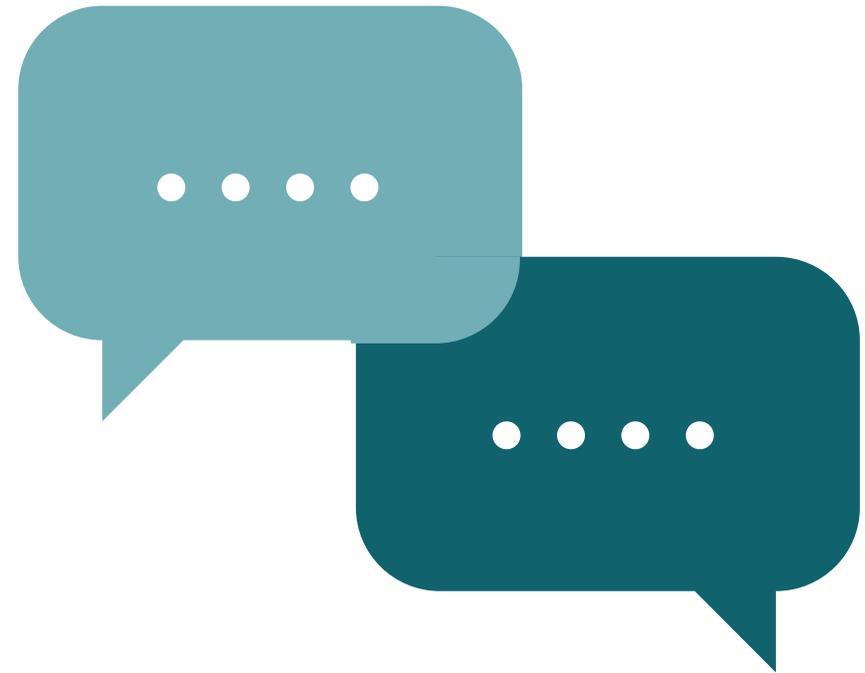


Contact Us

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608-867-4448

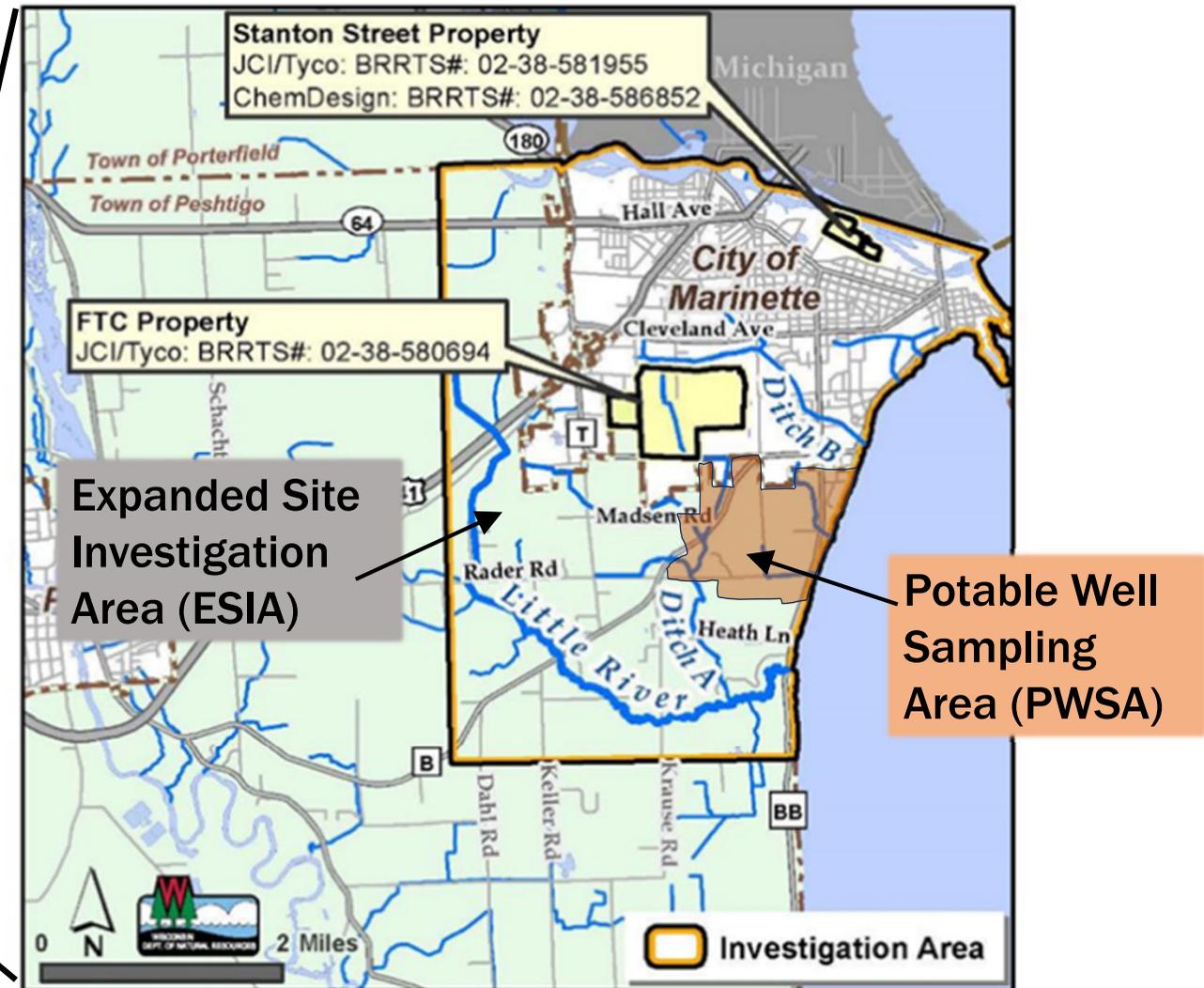
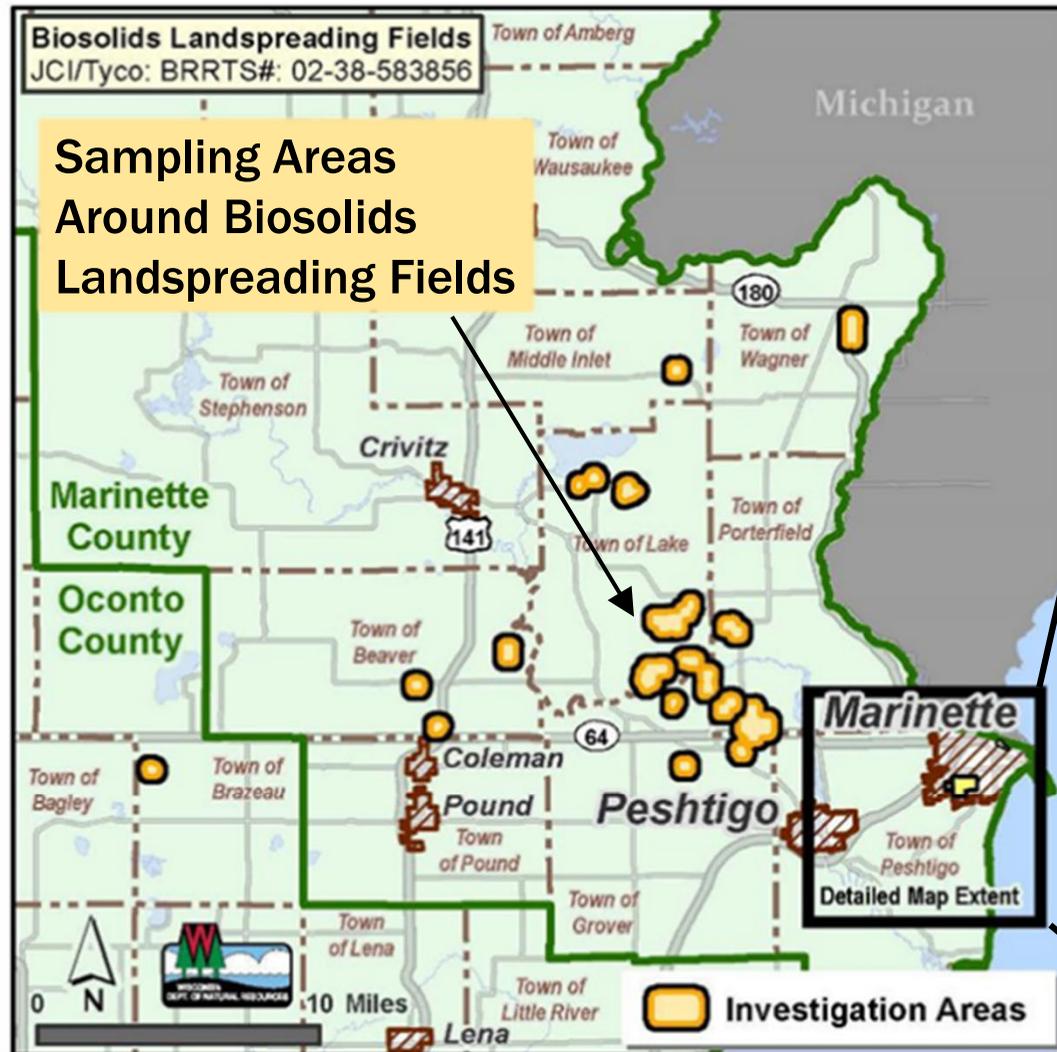


Private Drinking Water



flickr CC 2.0, Jenn Durfey

Private Well Testing Areas



Private Well PFAS Results and Response Actions

Area	# Wells Tested	# Wells > state health advisory level		Safe Drinking Water Response Actions
		2020 (previous)	2025 (current)	
PWSA	173	37	78	JCI/Tyco offers to all homes in area
ESIA	415	34	85	DNR offers bottled water for wells with Advisory** Some homeowners take their own action
Biosolids Landspreading Field Area	188	27	73	JCI/Tyco offers bottled water to some homes DNR offers bottled water for wells with Advisory** not receiving water from JCI/Tyco

**Advisory = Drinking Water Advisory for private wells with PFAS \geq state health advisory levels

Town of Peshtigo

PWSA: Drinking Water Status

134

New Deep Wells
(+ more)

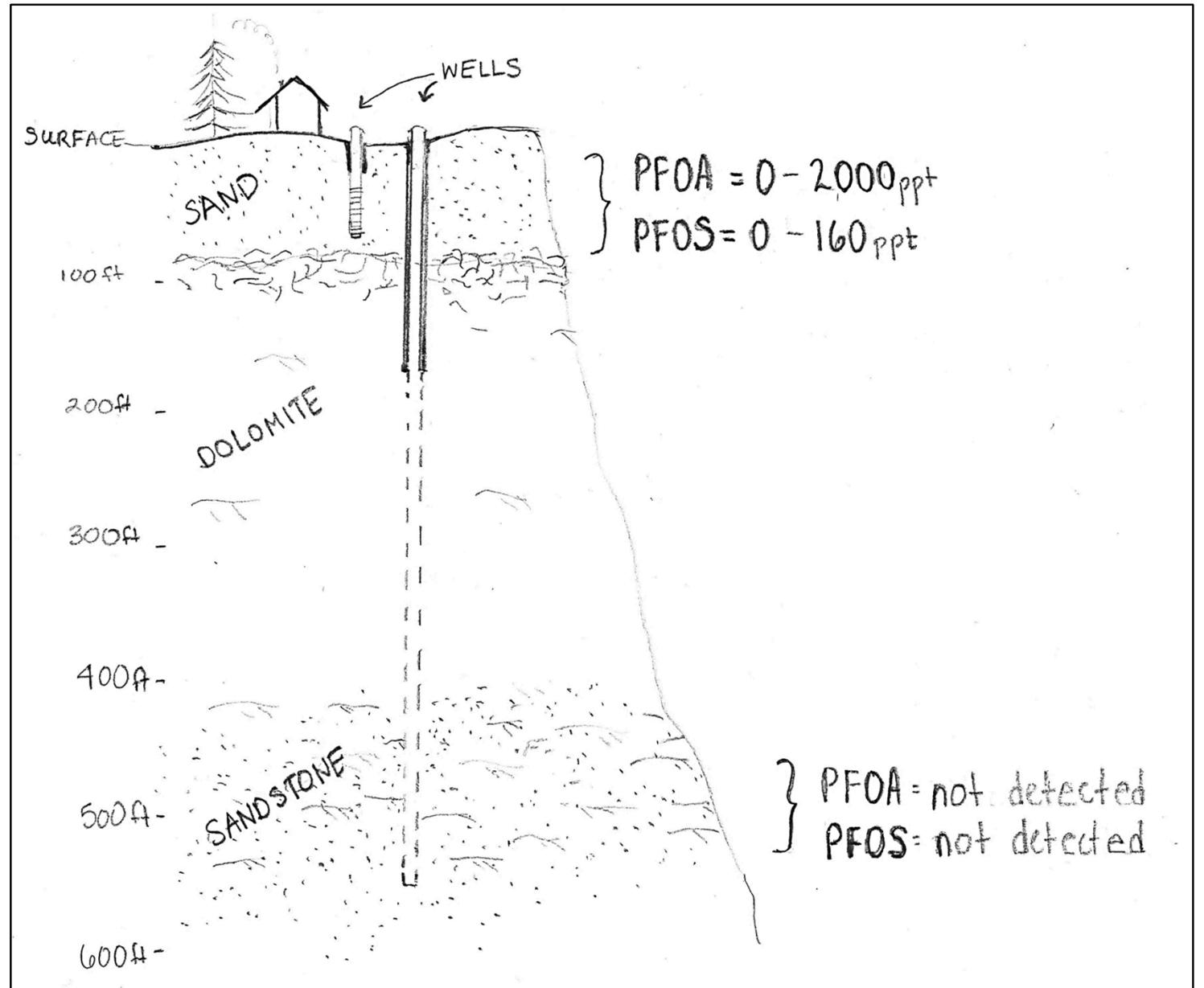
9

Original + POET
(Point of Entry Treatment)

~30

Original Wells
(Bottled Water Available)

Town of Peshtigo Deep Wells



Town of Peshtigo Deep Well Treatment



**Whole-House Water
Softener & Filter**



**Under-the-Sink
Reverse Osmosis**

Compound	Unit	Criteria	Deep Well (Average)	Treated Water
Radium	pCi/L	5	15	< 5
Strontium	ppm	1.5	10	< 1.5
Sulfate	ppm	250	550	< 250
Hardness	ppm	180	600	< 180

pCi/L = picocuries per liter
ppm = parts per million

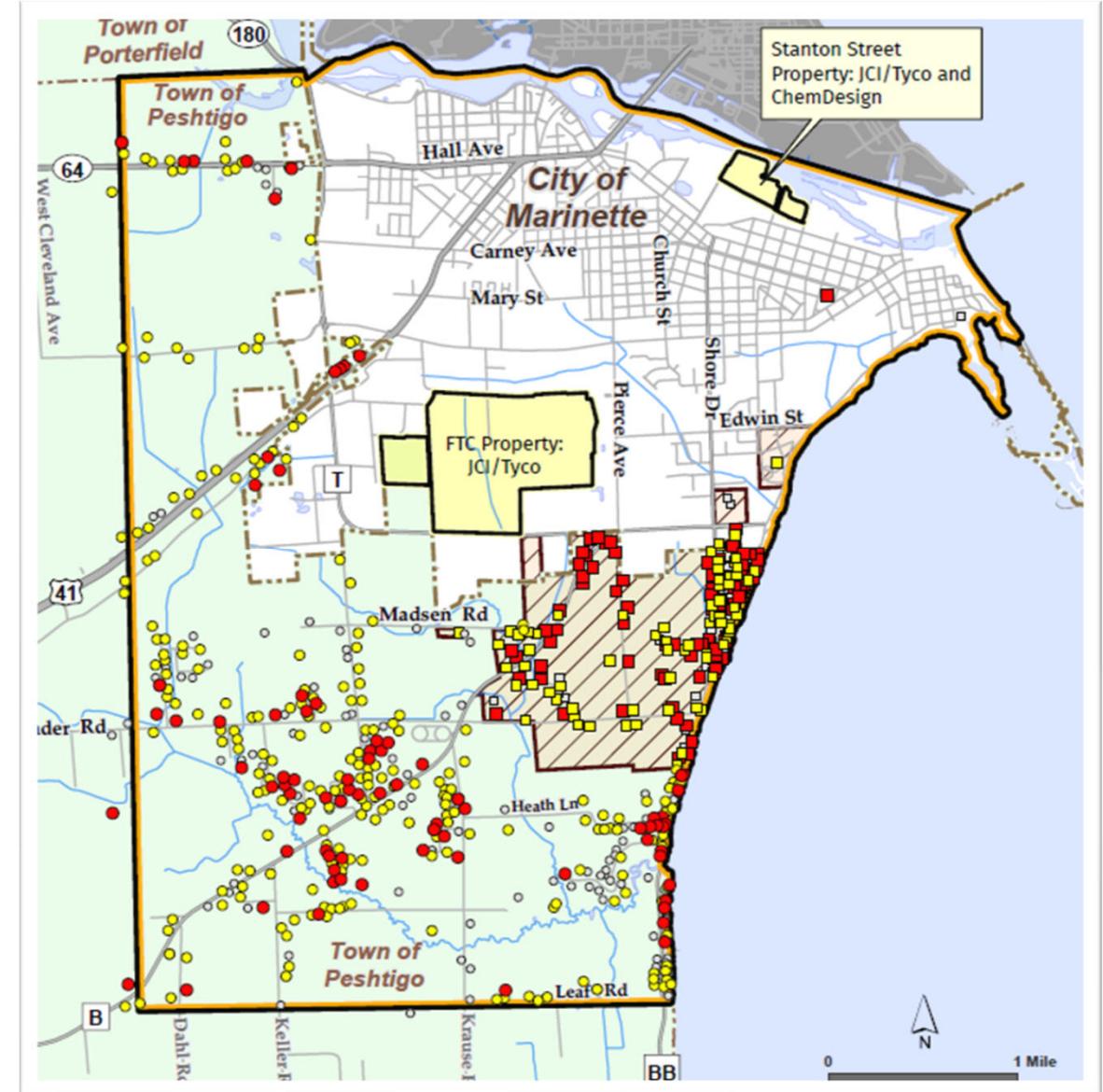
Town of Peshtigo ESIA: Bottled Water

2020/21

- 415 wells tested by DNR
- 34 households offered water

2025

- 51 additional households offered water
 - No new testing
 - Updated state health advisory levels
 - Offers mailed April 2025



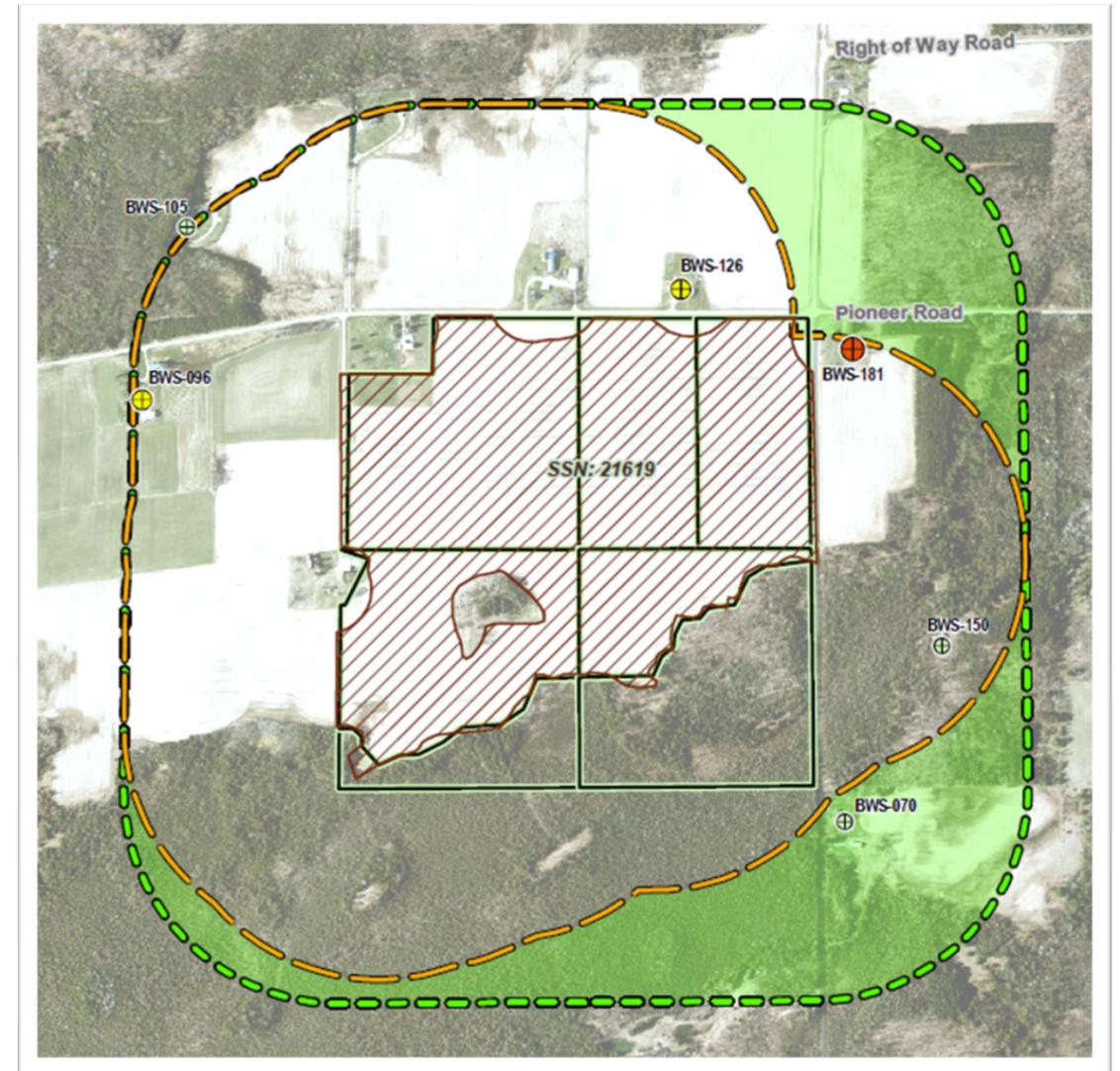
Biosolids Fields: Bottled Water

2020/21 (JCI/Tyco)

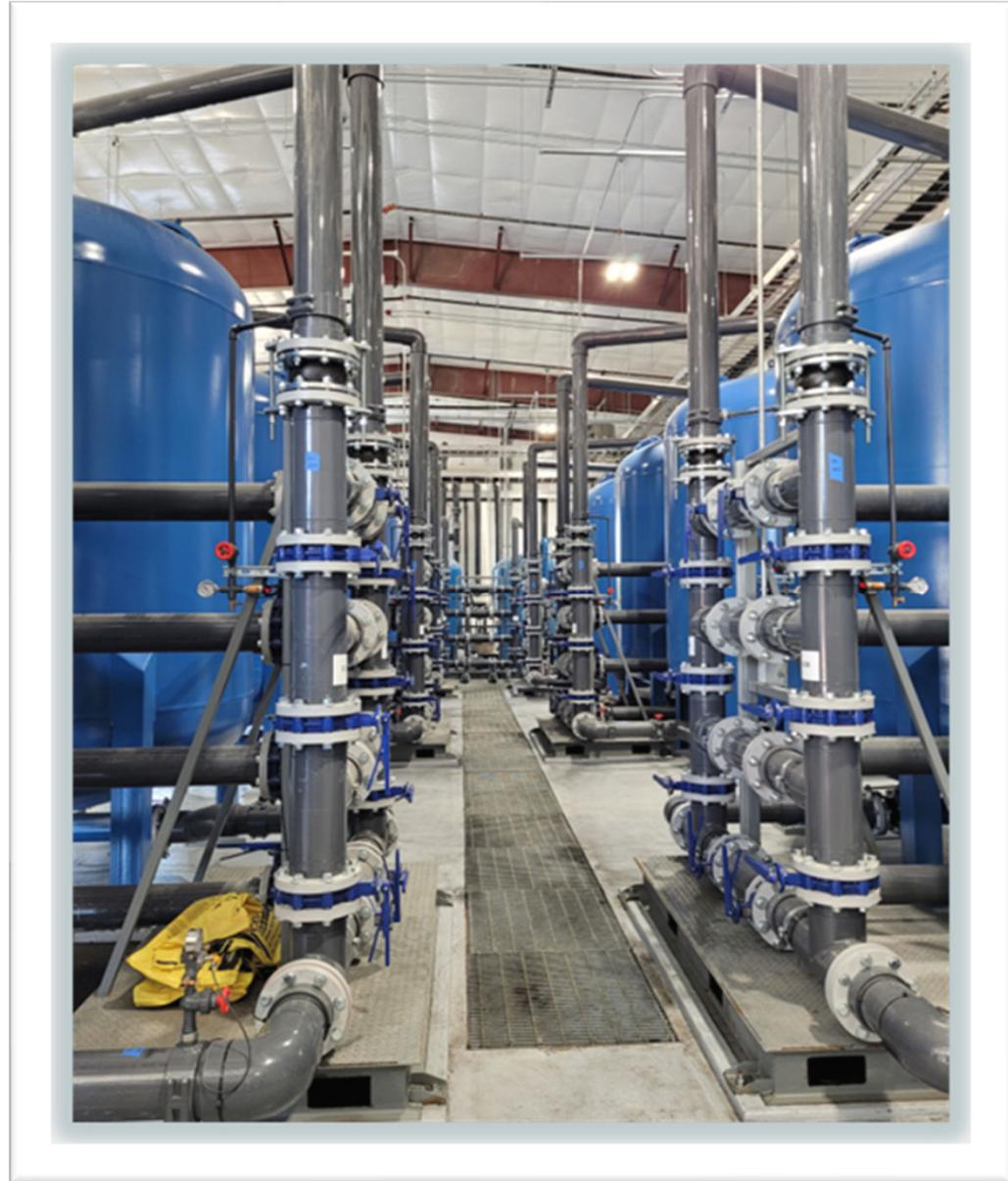
- 188 wells tested
 - 33 households offered water
- 80 more households provided water
 - No testing
 - Close to impacted well

2025 (DNR)

- 44 additional households offered water
 - No new testing
 - Updated state health advisory levels
 - Offers mailed Sept. 2, 2025



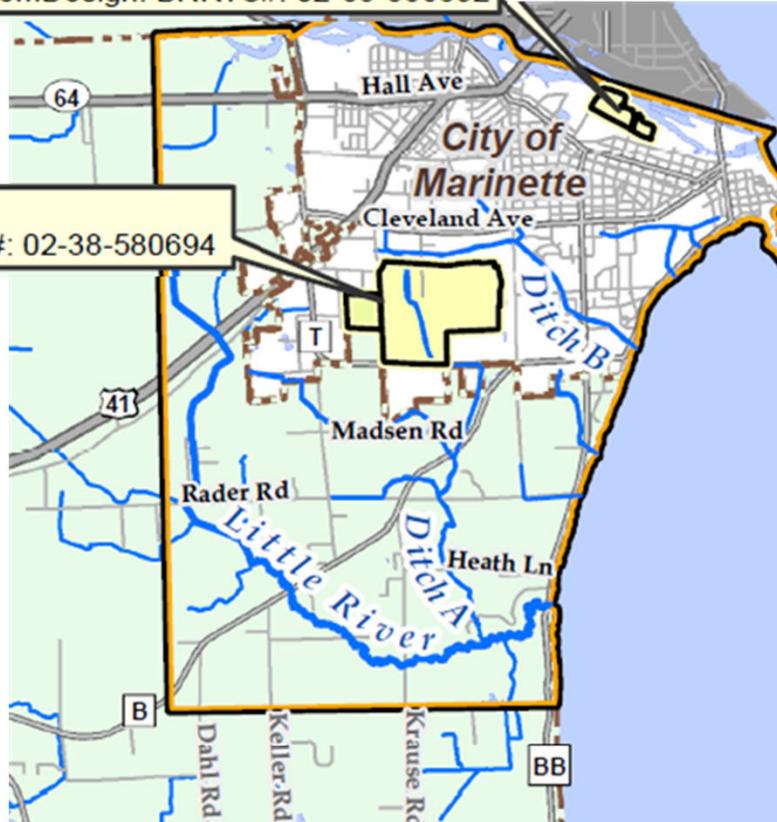
PFAS Investigation & Remediation Status



PFAS Discharges

Stanton Street Property
JCI/Tyco: BRRTS#: 02-38-581955
ChemDesign: BRRTS#: 02-38-586852

FTC Property
JCI/Tyco: BRRTS#: 02-38-580694



Site Investigation: Groundwater

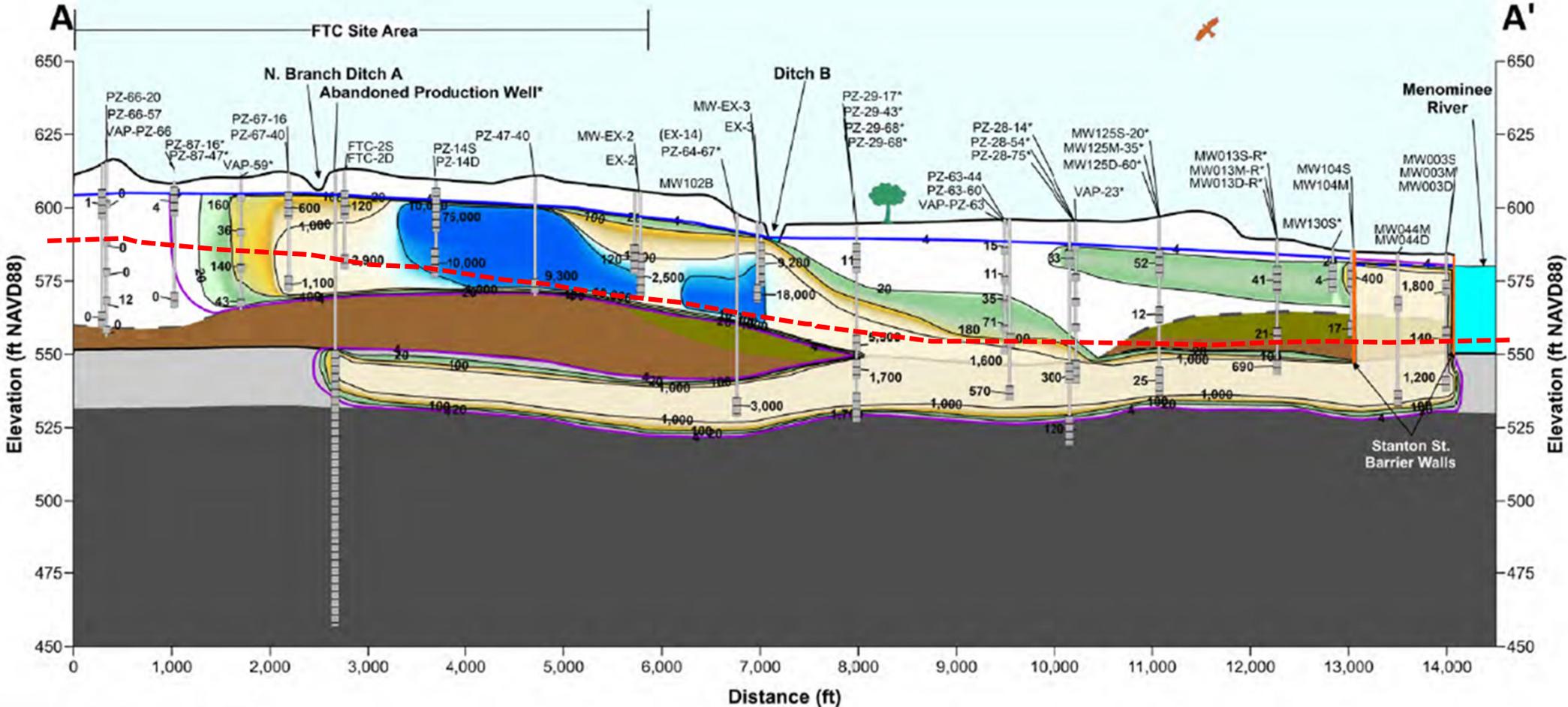
- Monitoring wells
 - ~60 added 2022-25
 - Currently 100+
 - More recommended
- Routine Monitoring Plan

<ul style="list-style-type: none">  OVERBURDEN MONITORING WELL  BEDROCK MONITORING WELL  GETS EXTRACTION WELL  DEEP AQUIFER MONITORING WELL  PROPOSED OVERBURDEN MONITORING WELL  IRRIGATION WELL 	<p>MONITORING WELL NETWORKS:</p> <ul style="list-style-type: none"> PZ-63-60 NORTHERN MONITORING WELL NETWORK PZ-29-43 CENTRAL MONITORING WELL NETWORK PZ-33-12 SOUTHERN MONITORING WELL NETWORK DMW-03 DEEP AQUIFER MONITORING WELL NETWORK
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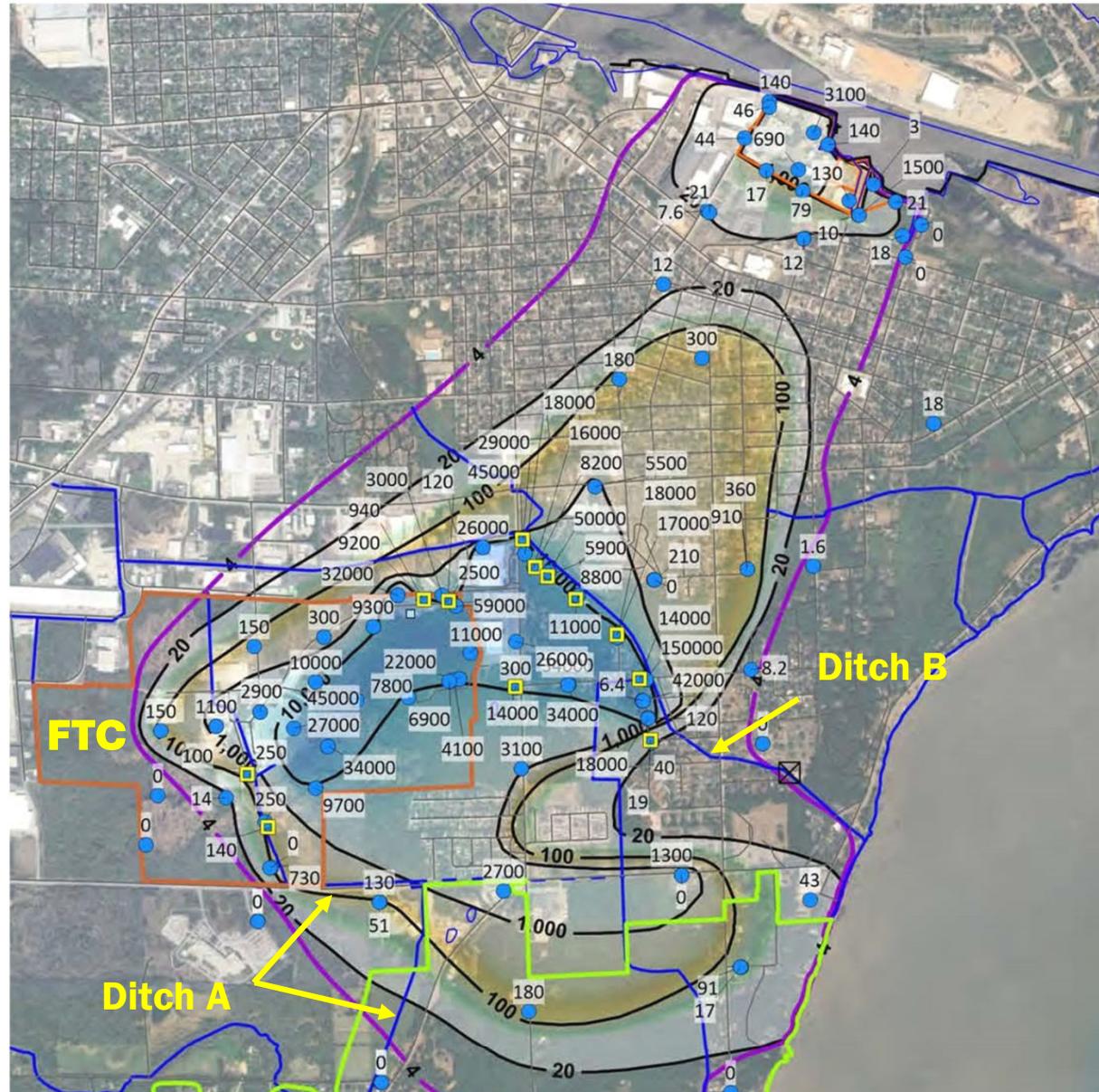


PFAS in Groundwater

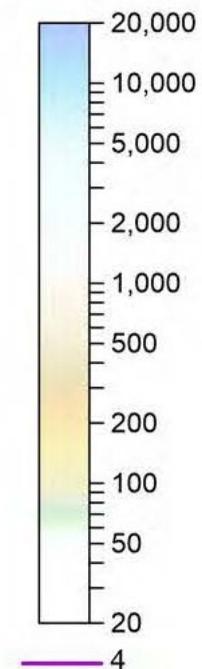
PFOA (ppt)



PFOA in Groundwater



PFOA Concentration (ng/L)

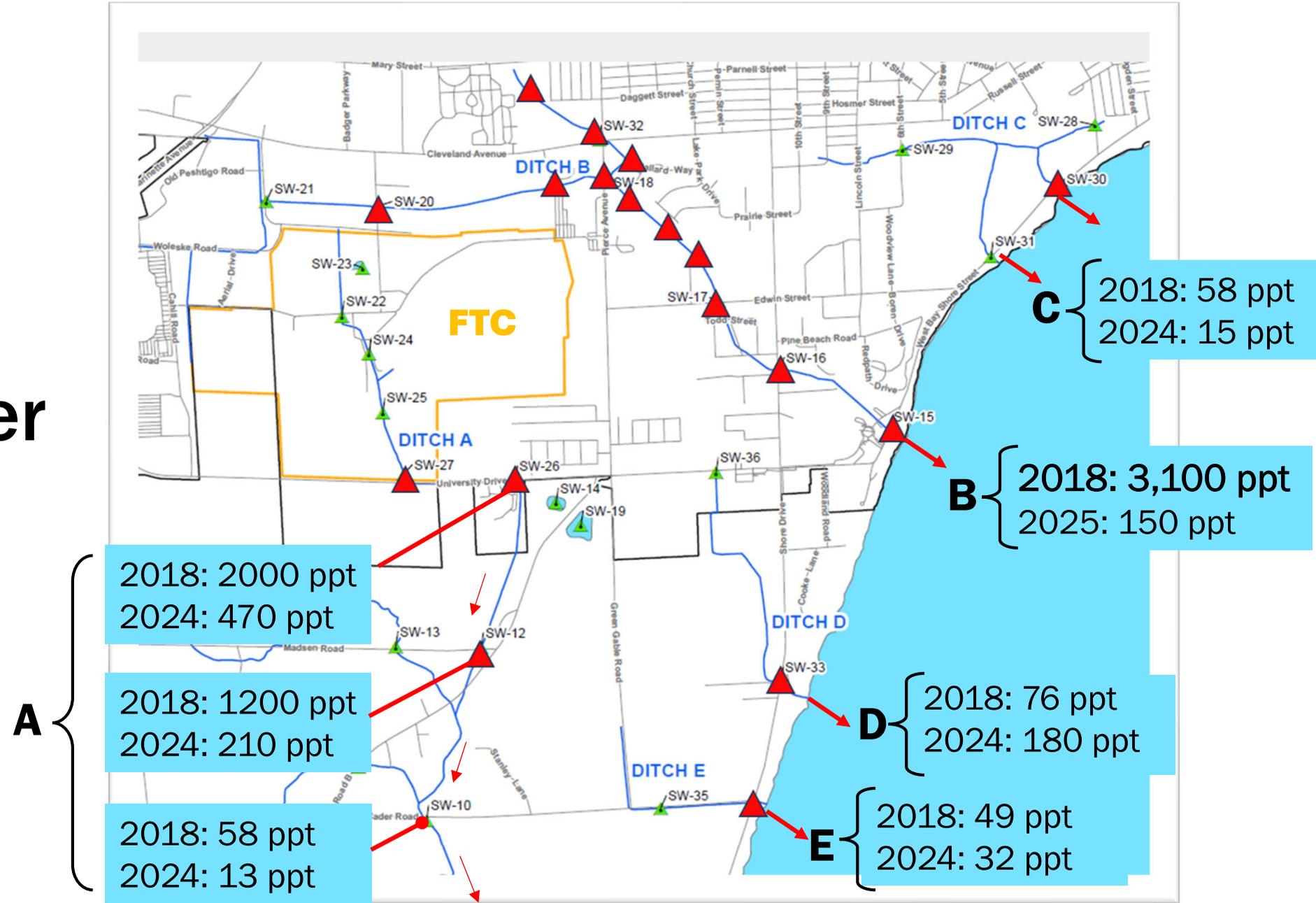


Legend

- FTC Site Area
- Ditches/Streams
- PWSA Boundary
- Monitoring Well
- GETS Extraction Well
- Ditch B Treatment System
- GETS Treatment Building
- Stanton St. Site Barrier Walls

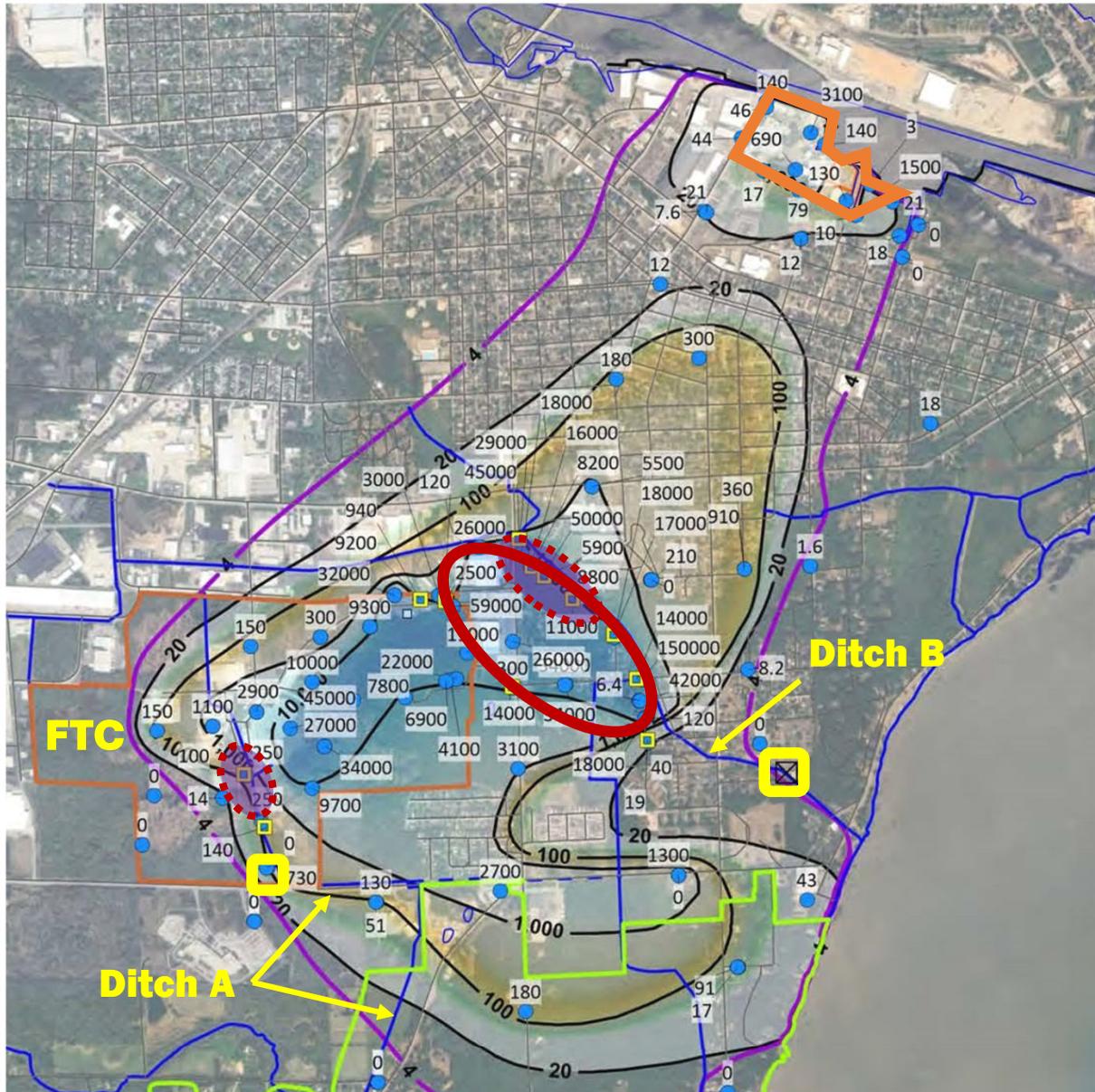
TYCO FIRE TECHNOLOGY CENTER MARINETTE, WISCONSIN INTERIM LTM GROUNDWATER AND SURFACE WATER REPORT #2	
Deep PFOA Concentrations at Site Monitoring Locations (Fall 2024 - Winter 2025)	
	FIGURE 4-3

PFOA in Surface Water



Cleanup Actions

- Ditch A and B Treatment (2019)
 - Decrease PFAS in surface water
- GETS: Groundwater Extraction & Treatment System (2022)
 - Reduce PFAS into Ditch B
 - Slow migration in groundwater
- GETS Expansion (2025)
- Barrier Wall (existing @ Stanton)



Groundwater

PFOA \approx 10,000 ppt
PFOS \approx 750 ppt

9 Extraction Wells

\sim 281 Million Gallons Pumped



Groundwater Extraction & Treatment System (GETS)

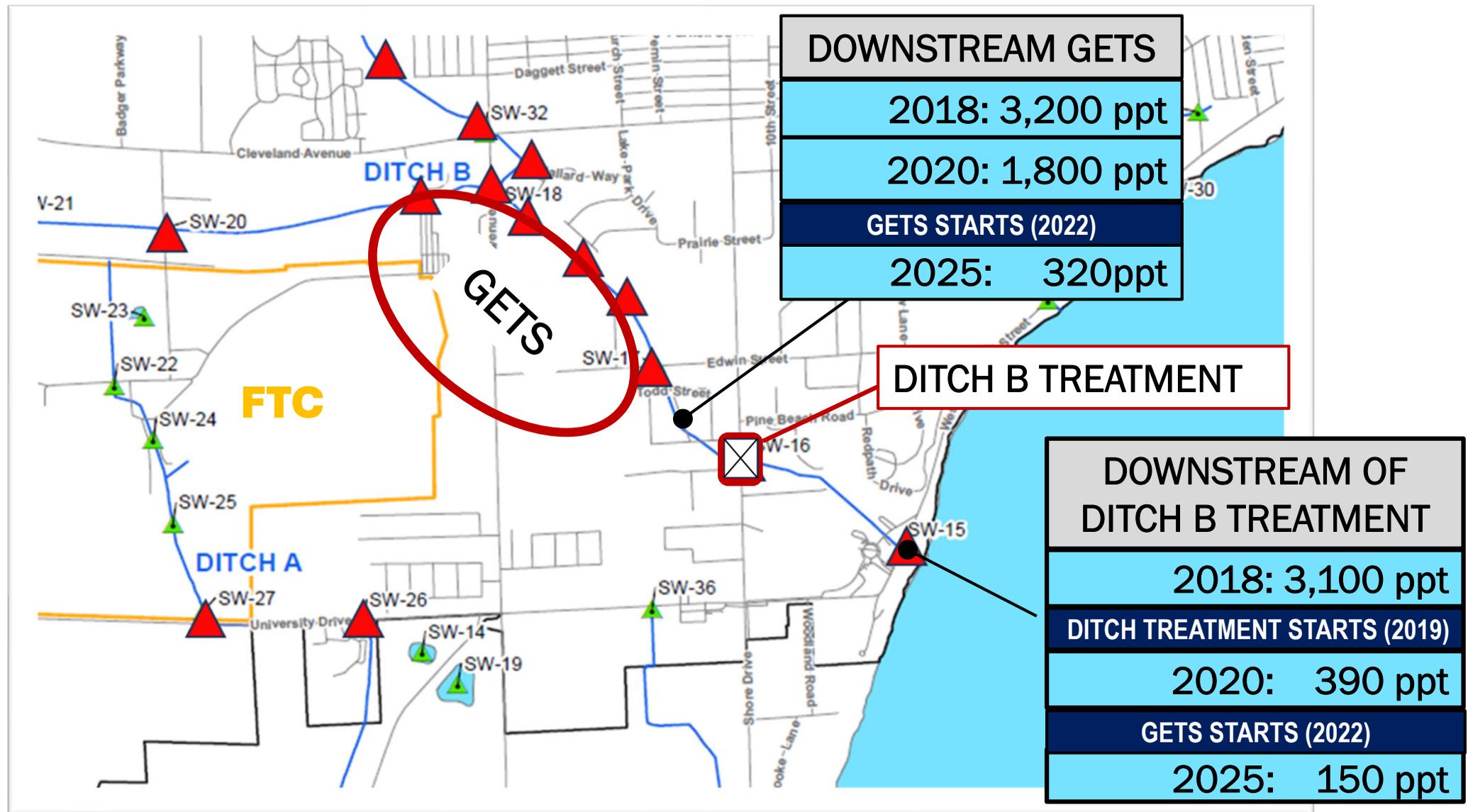
Nov '22 – May '25

\sim 48,000 lb. of resin
 \sim 740,000 lb. carbon

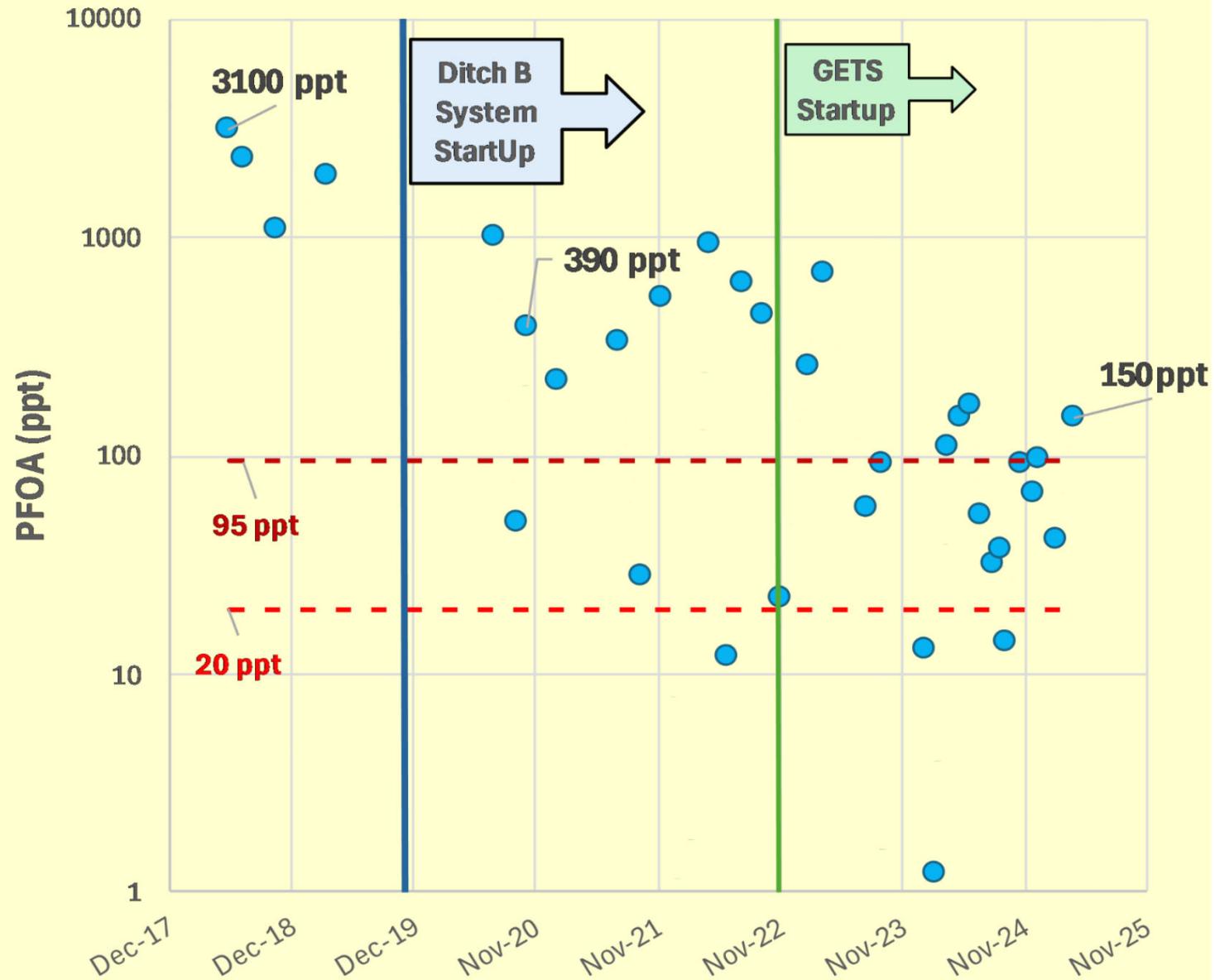
Treated Water Discharged to Ditch B

PFOA $<$ 2 ppt
PFOS $<$ 1 ppt

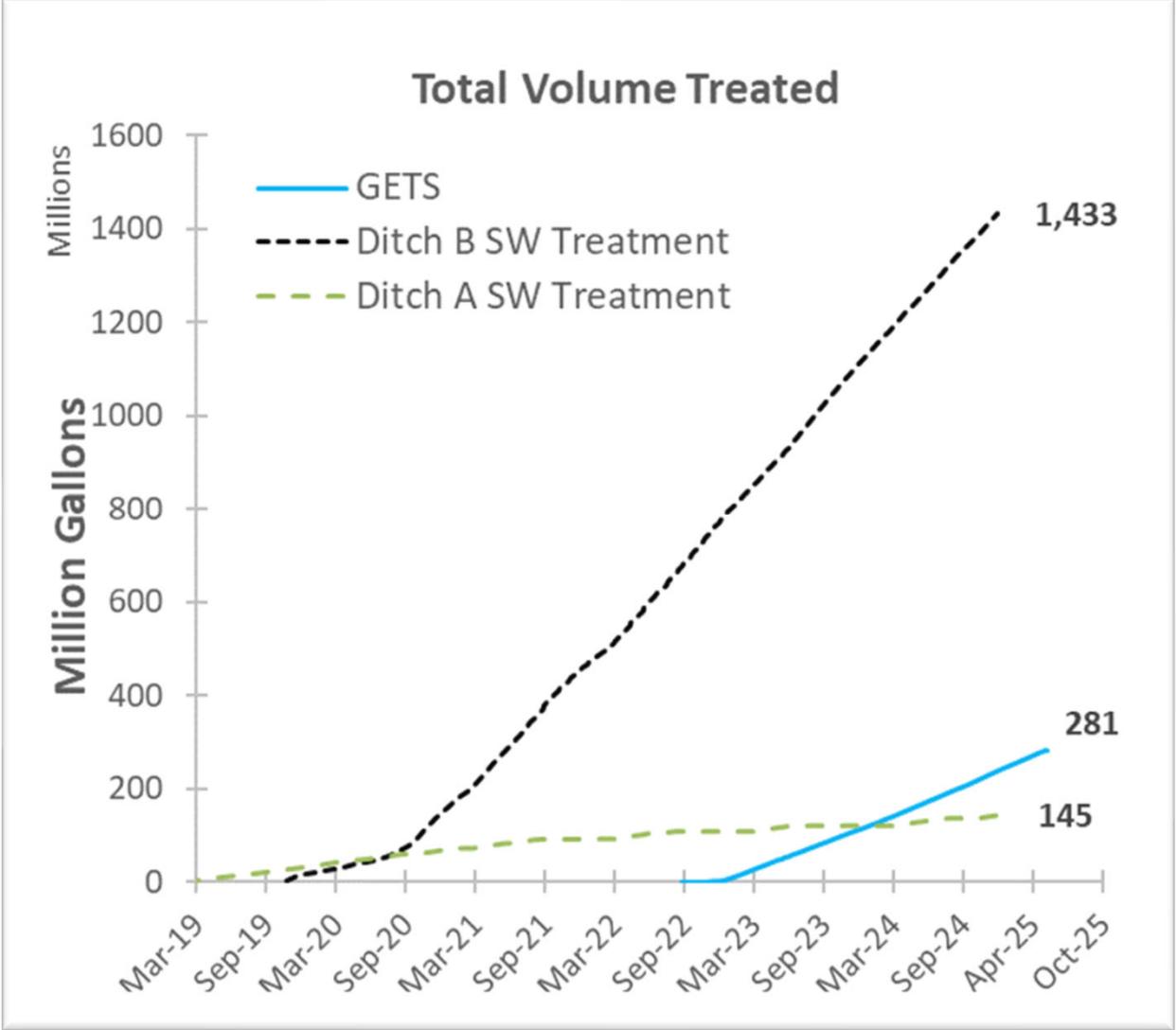
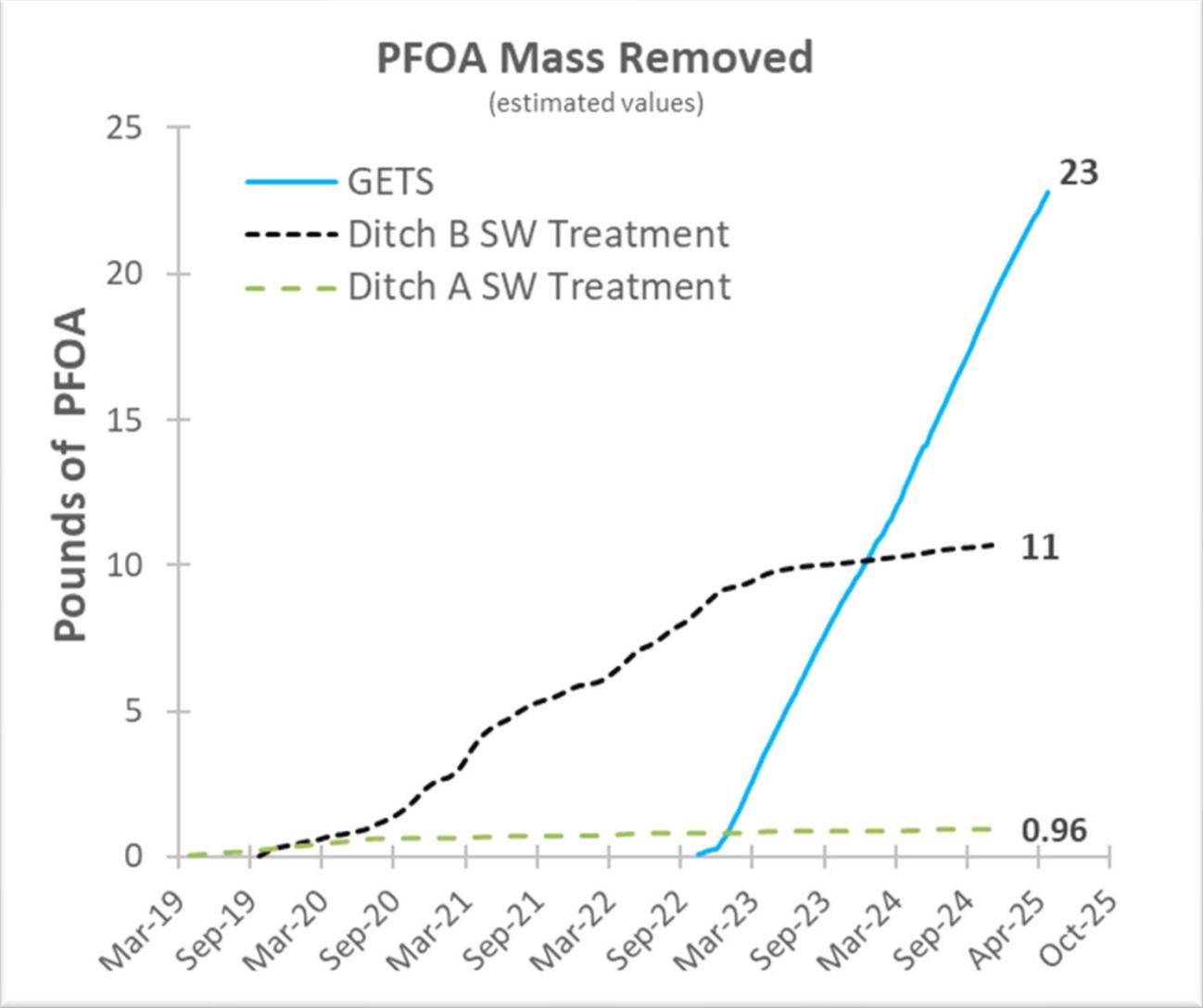
Cleanup Progress: PFOA in Ditch B



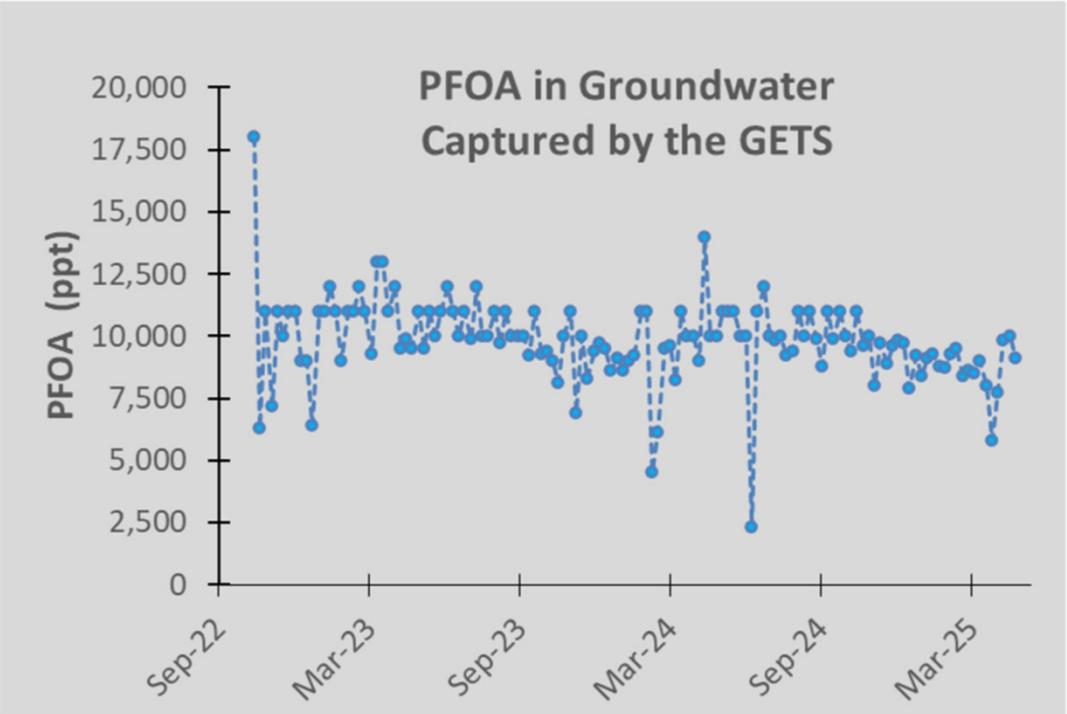
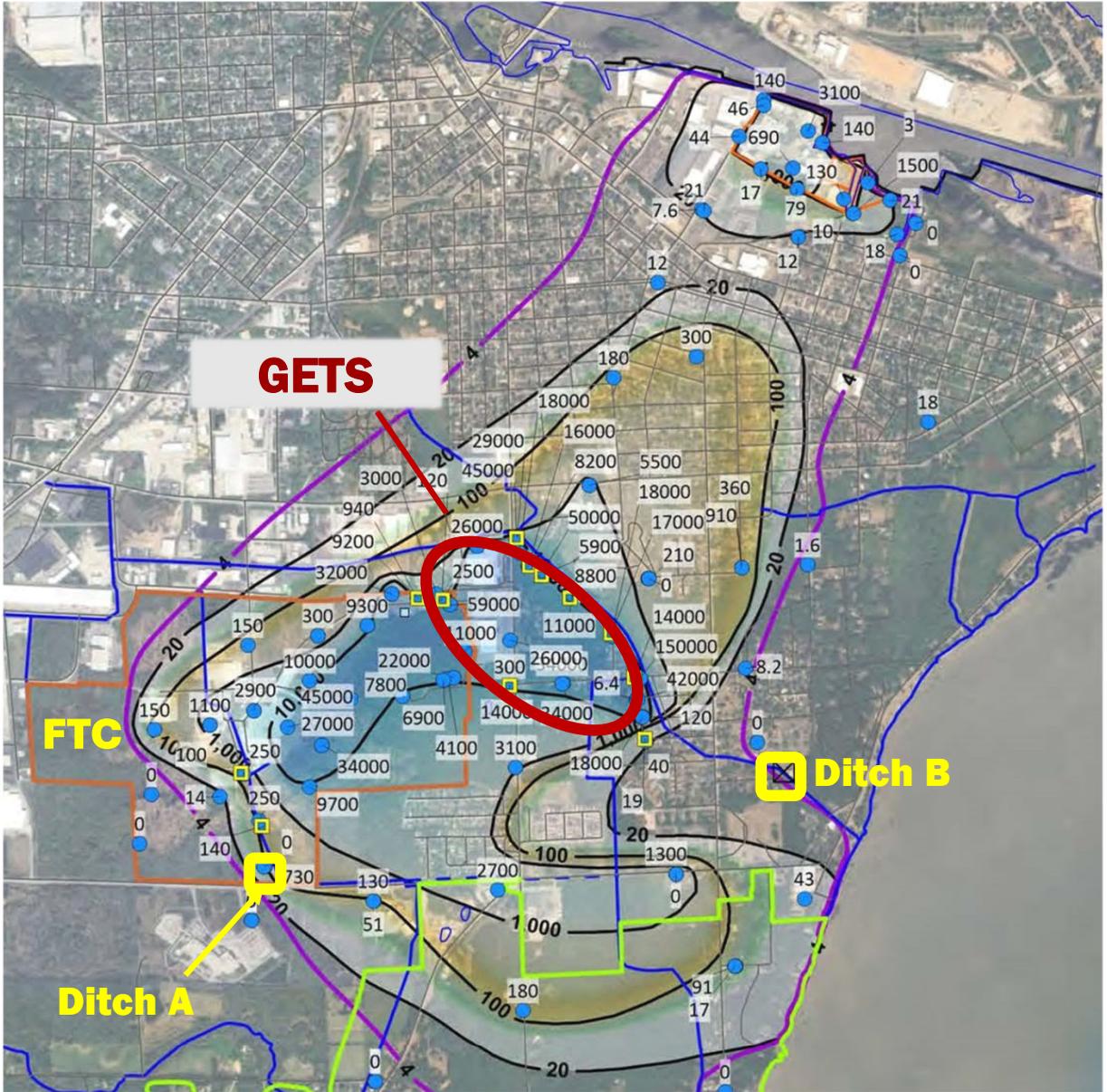
PFOA In Ditch B: Outlet to Green Bay

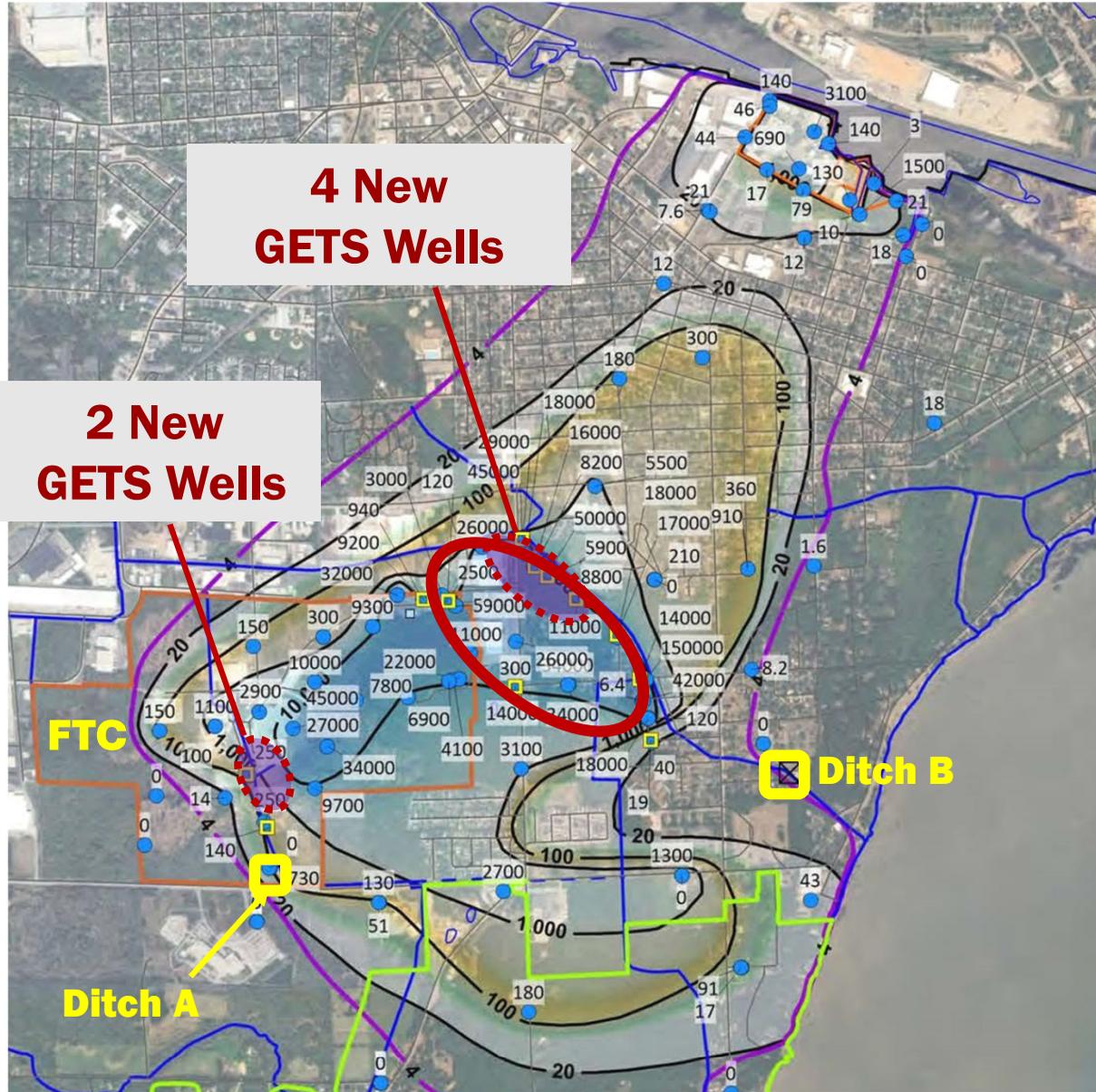


Cleanup Progress: PFOA Captured



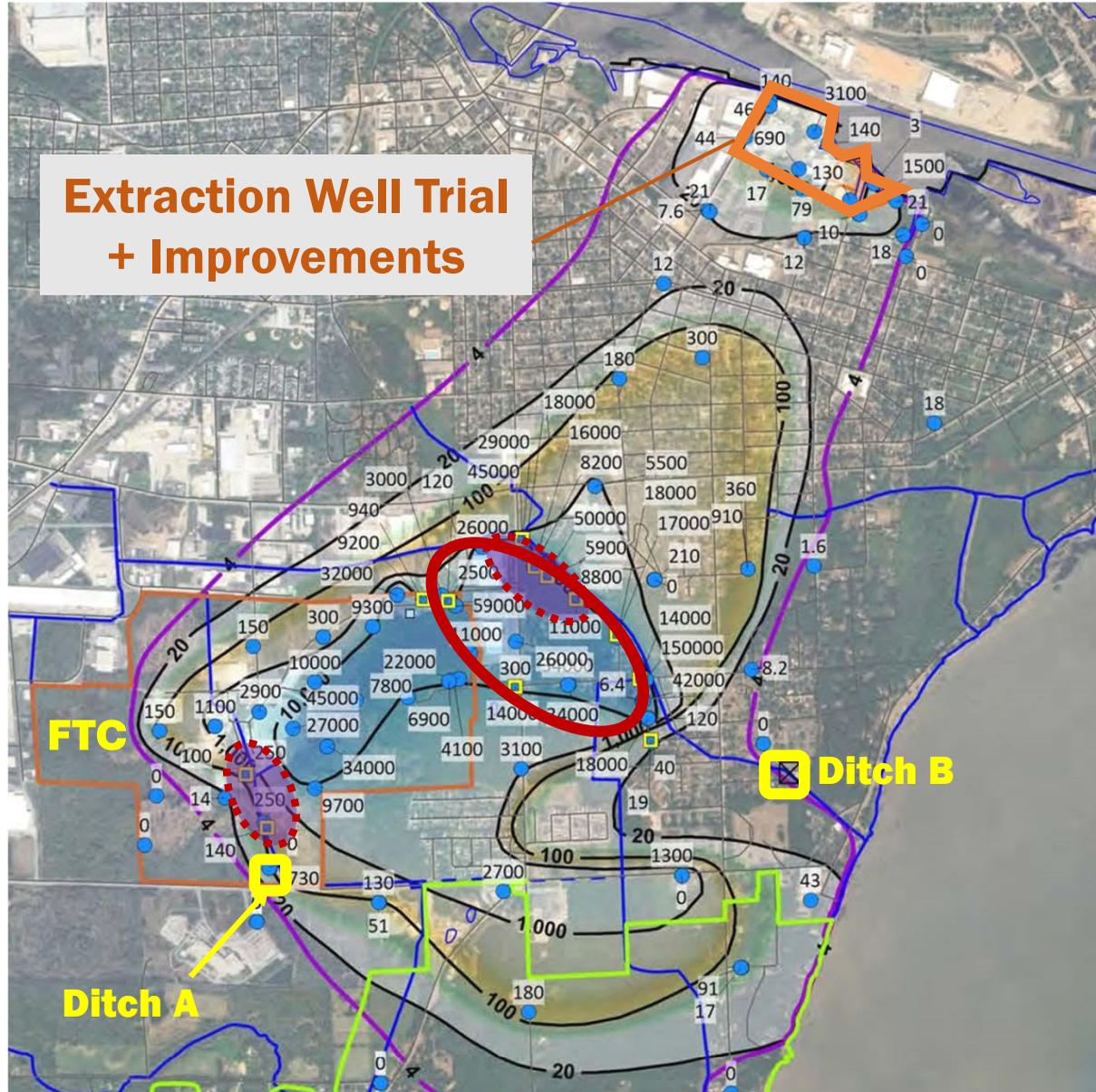
Cleanup Progress: PFOA in Groundwater





GETS Expansion (2025)

**Extraction Well Trial
+ Improvements**



Stanton Street PFAS Control

Public Questions & Comments

In Person

- Raise Hand
- Notecards

Zoom

- Submit in Chat (goes to DNR Host)
- “Raise Hand” / Unmute when prompted

Phone

- *9 to “Raise Hand”
- *6 to unmute when prompted

Please:

- ✓ 3 minutes/person
- ✓ Constructive
- ✓ Related to projects



Staying Connected

- DNR Webpage
 - dnr.wi.gov
 - Search 'PFAS Marinette'
- Click “Subscribe” for email updates
- Ask a Question / Voice a Concern
 - Click the “Ask” Button
 - Email: DNRJCIPFAS@wisconsin.gov
 - Call: 1-888-626-3244

