

# **Air Management Advisory Group Quarterly Meeting**

June 4, 2024



# Hybrid Meeting Guidelines

- Please sign in if attending in person.
- Attendees in the room can raise their hand and will be called on.
- Online attendees should use the raise hand feature and will be called upon by the meeting host
- The host will attempt to respond to all messages received
- Participants will join the meeting with their video disabled. We ask that you keep your video disabled for the duration of the meeting, unless called on by the host.

# Air Management Advisory Group Quarterly Meeting Agenda

- Hiring and Administrative Update
- Proposed guidance, rules and legislative update
- PM NAAQS
- Annual Network Plan
- Air Monitoring ARP Open House
- Member Updates
- Litigation Update
- Ozone Update

# Hiring and Administrative Update

Gail Good, Air Management Director

# Air Management Staffing Updates

## New Hiring

- Matt Matrise – New Business Support Section Manager

## Staff Leaving Air Management

- Olivia Salmon – SIP and Rule Coordinator – Leaving the DNR
- Renee Bashel – Small Business Assistance Coordinator - Retiring
- Kendra Fisher – Southeast Region Supervisor, Waukesha – moving to DNR Hazardous Waste Program

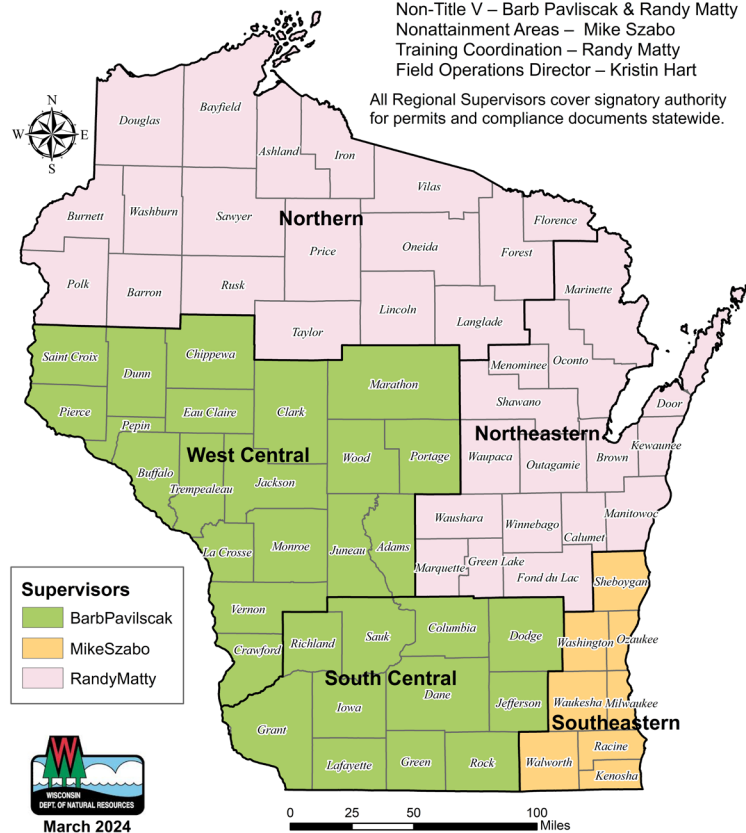
# Updates to Field Responsibilities

## Air Management Regional Supervisors

### Air Program Responsibilities:

Asbestos – Mike Szabo  
 Industrial Sand – Barb Pavliscak  
 Non-Title V – Barb Pavliscak & Randy Matty  
 Nonattainment Areas – Mike Szabo  
 Training Coordination – Randy Matty  
 Field Operations Director – Kristin Hart

All Regional Supervisors cover signatory authority for permits and compliance documents statewide.



- Barb Pavliscak - West Central and South Central Regions
- Randy Matty - Northern and Northeast Regions
- Mike Szabo - Southeast Region and Asbestos Program

# Proposed Guidance, Rules and Legislative Update

Gail Good, Air Management Director

# Proposed/Final DNR Rules

Proposed DNR rule	Description	Phase
AM-05-21 NOx Reg	Updates to Reasonably Available Control Technology rules to control emissions of Nitrogen Compounds	Final Rule Effective 04/01/2024
AM-05-22 Compliance Demonstration Rule	Updates to NR 439 testing, monitoring, recordkeeping, reporting requirements for compliance <a href="#">Rulemaking to Revise Chapter NR 439     Wisconsin DNR</a>	Public Comment Period
AM-10-23 NSR Fee Rule	Updates to construction permit fees to assure compliance with Clean Air Act requirements and to meet business needs of permitted sources. <a href="#">NR410 Rulemaking     Wisconsin DNR</a>	Economic Impact Assessment Comment Period



# Proposed/Final DNR Guidance

Guidance Title	Description	Phase
Permit Guidance for RNG Processors	Guidance on how to determine air permit needs when installing renewable natural gas (RNG) systems associated with digesters.	In review

# NR 410

- Solicitation of public comment on the EIA ended on 04/02/24
- Received comments from WUA and joint comments from WMC/WPC
- Draft rule being revised in light of EIA comments
- Public comment period on Proposed Rule anticipated to begin in July

[NR410 Rulemaking | | Wisconsin DNR](#)

# NR 439

Entering phase of final rule adoption by NRB and Governor

- Board order and EIA being updated based on public comments and response to comments
- NRB meeting requesting adoption on August 14th
- If NRB approval, revised rule submitted to the Governor on August 16th

[Rulemaking to Revise Chapter NR 439 | | Wisconsin DNR](#)

# Proposed EPA Rules/Guidance

Proposed EPA rule/guidance	Docket	Comments due
Clarifying the Scope of "Applicable Requirements" Under State Operating Permit Programs and the Federal Operating Permit Program	<a href="#">EPA-HQ-OAR-2023-0401</a>	4/10/2024
Supplemental Federal Good Neighbor Plan Requirements for the 2015 8-hour Ozone National Ambient Air Quality Standards	<a href="#">EPA-HQ-OAR-2021-0663</a>	5/16/2024
Revisions to Regulations Related to Project Emissions Accounting	<a href="#">EPA-HQ-OAR-2022-0381</a>	7/2/2024
Non-Regulatory Docket: Power Plant GHG: Regulating Existing Gas Plants	<a href="#">EPA-HQ-OAR-2024-0135</a>	5/28/2024
Non-Regulatory Docket: Regional Haze Round 3	<a href="#">EPA-HQ-OAR-2023-0262</a>	6/28/2024

# Finalized EPA Rules/Guidance

Finalized EPA rule/guidance	Link	Date finalized
Power Plant GHG Rule- NSPS and EG (Coal Plants)	<a href="#">EPA-HQ-OAR-2023-0072</a>	5/9/2024
NESHAP: Coal and Oil-Fired EGUs	<a href="#">EPA- HQ-OAR-2018-0794</a>	5/07/2024
Update of PM2.5 Data from T640/T640X PM Mass Monitors	<a href="#">EPA-HQ-OAR-2023-0642-0031</a>	5/15/2024

# PM NAAQS

Gail Good  
Air Program Director

Katie Praedel  
Air Monitoring Section Chief

# 2024 Particulate Matter Standard

2024 PM NAAQS published in the Federal Register on March 6, 2024 and is effective as of May 6, 2024

NAAQS	Most Recent Standard	2024 PM NAAQS
PM <sub>2.5</sub> annual standard	12 µg/m <sup>3</sup> (set in 2012)	9 µg/m <sup>3</sup>
PM <sub>2.5</sub> 24-hour standard	35 µg/m <sup>3</sup> (set in 2006)	No change
PM <sub>10</sub> standard	150 µg/m <sup>3</sup> (set in 1987)	No change

# Next Steps: Designations Process

A revised NAAQS starts a designations process in which EPA determines the areas of the country that are in 'attainment' of the NAAQS and those that are in 'nonattainment'.

It is too early to say with certainty if Wisconsin will have areas designated 'nonattainment' for the revised standard.

- State Designation Recommendations: Due February 7, 2025
- Proposed Area Designations: Approximately October 2025
- Final Area Designations: Due February 7, 2026



# EPA's PM2.5 Method Data Alignment

- On May 15, 2024, EPA signed the federal register notice allowing the historic PM2.5 monitoring data collected using the Teledyne T640 and T640X to be aligned to improve comparability with the filter-based monitors.
- This impacts PM2.5 data collected in Wisconsin since 2018.
- On July 10, 2023, DNR updated the firmware on the Teledyne PM instruments to incorporate this change from that point forward.

# PM2.5 and PM10 Networks

Figure 2: 2024 PM<sub>2.5</sub> Monitoring Sites in Wisconsin

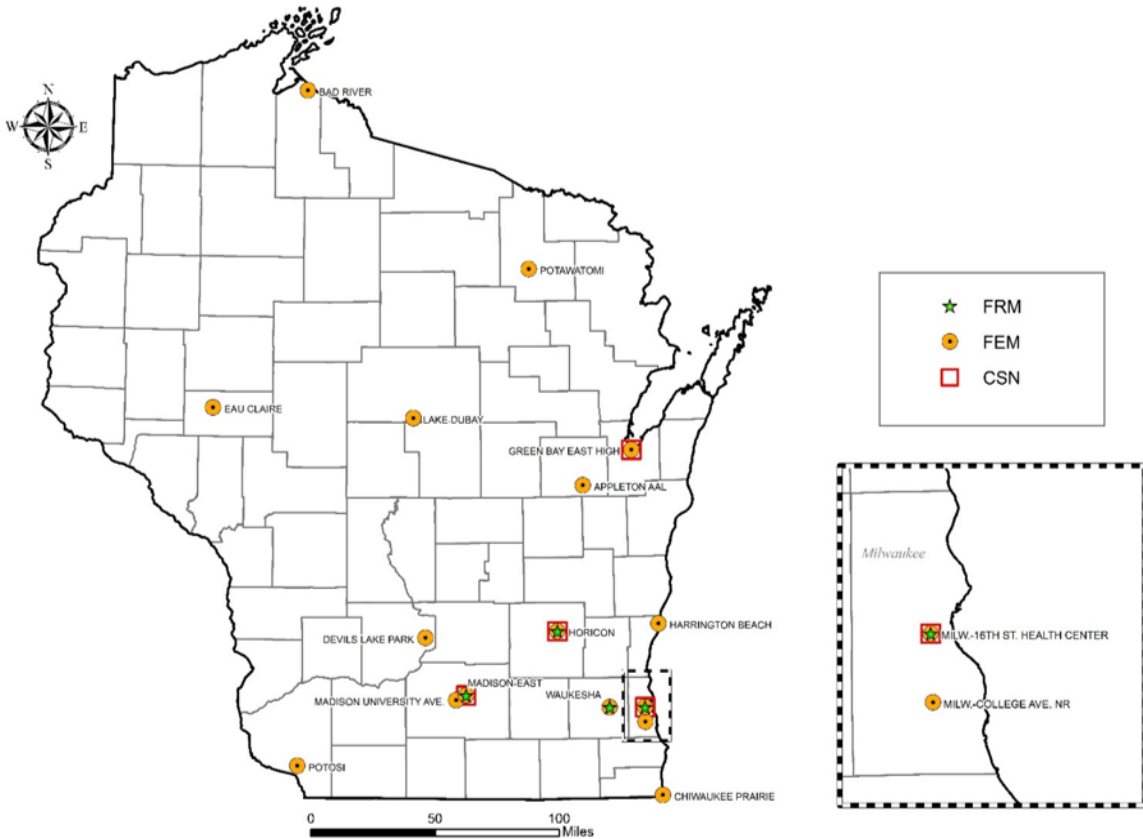
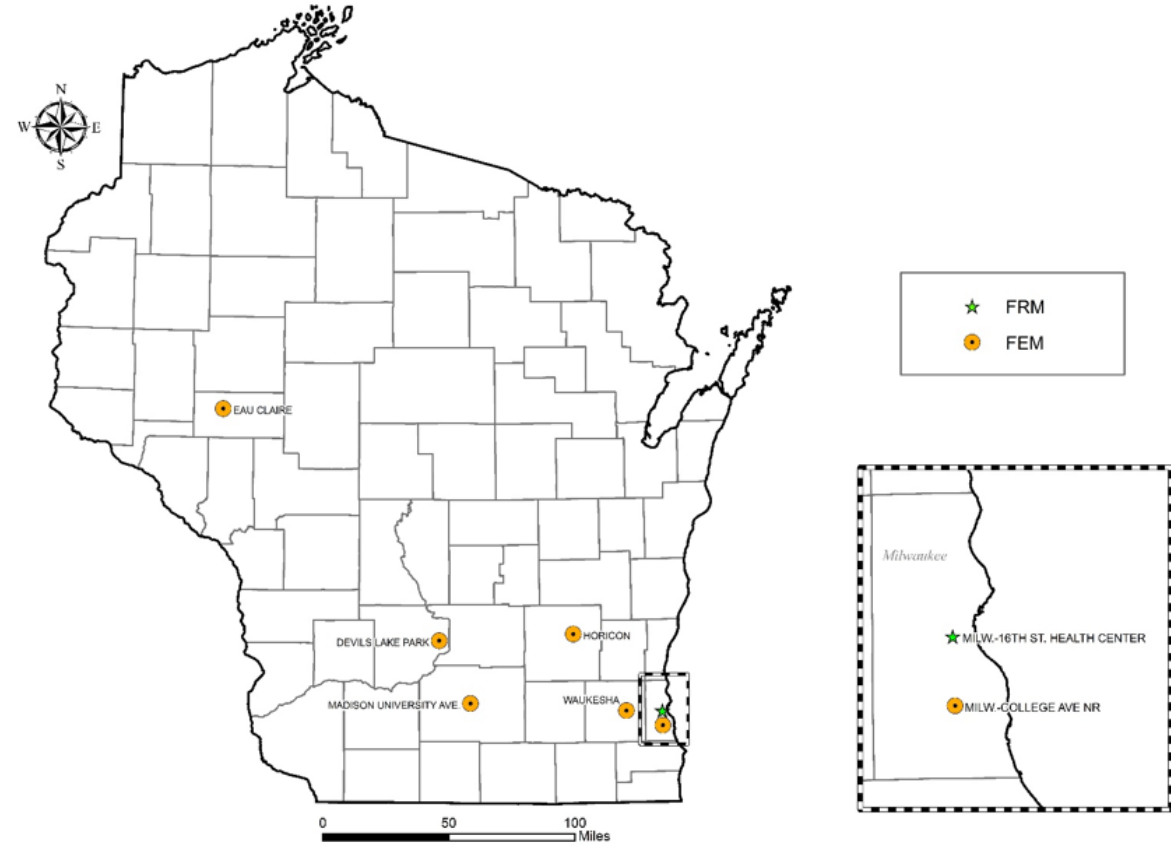
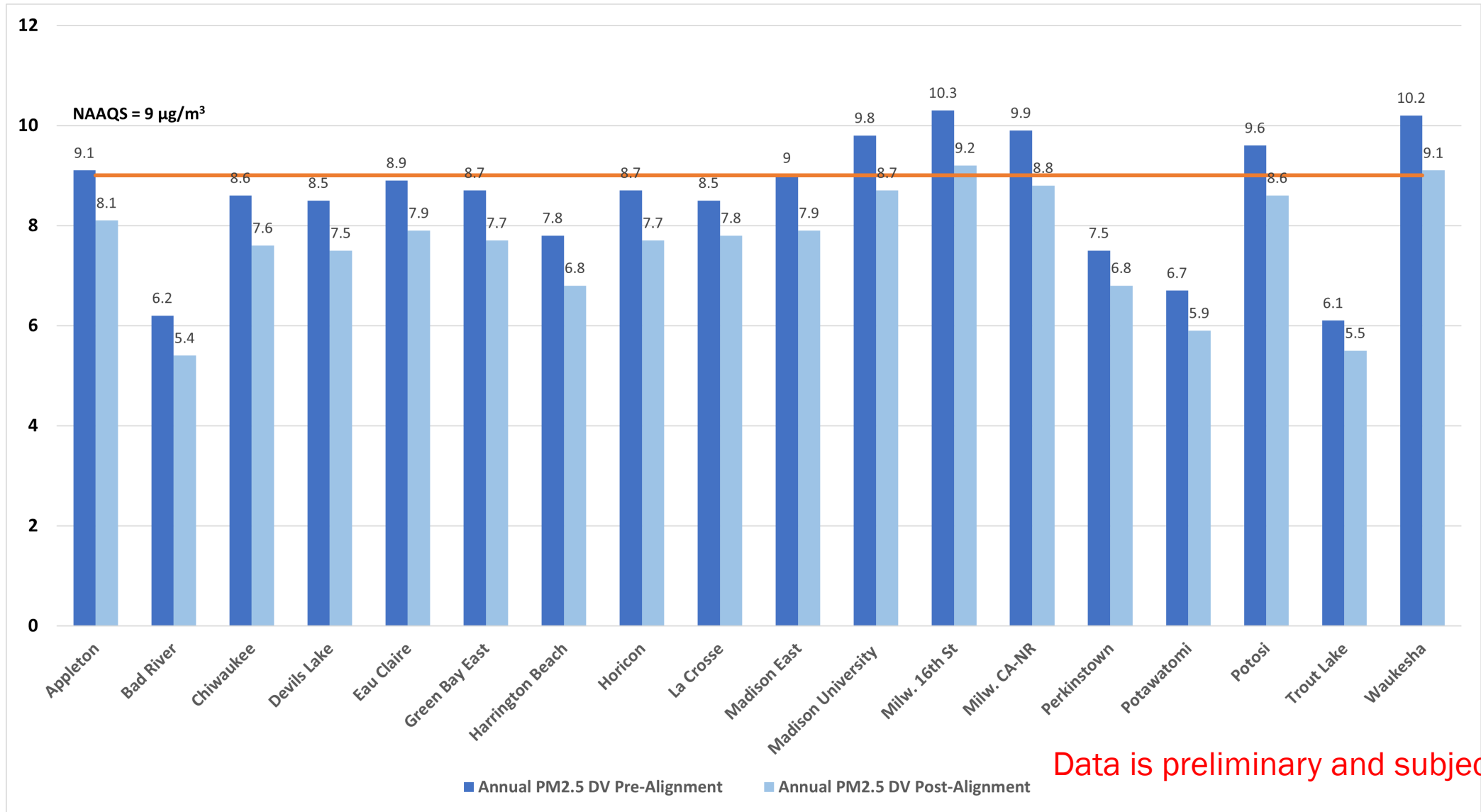


Figure 5: 2024 PM<sub>10</sub> Monitoring Sites in Wisconsin

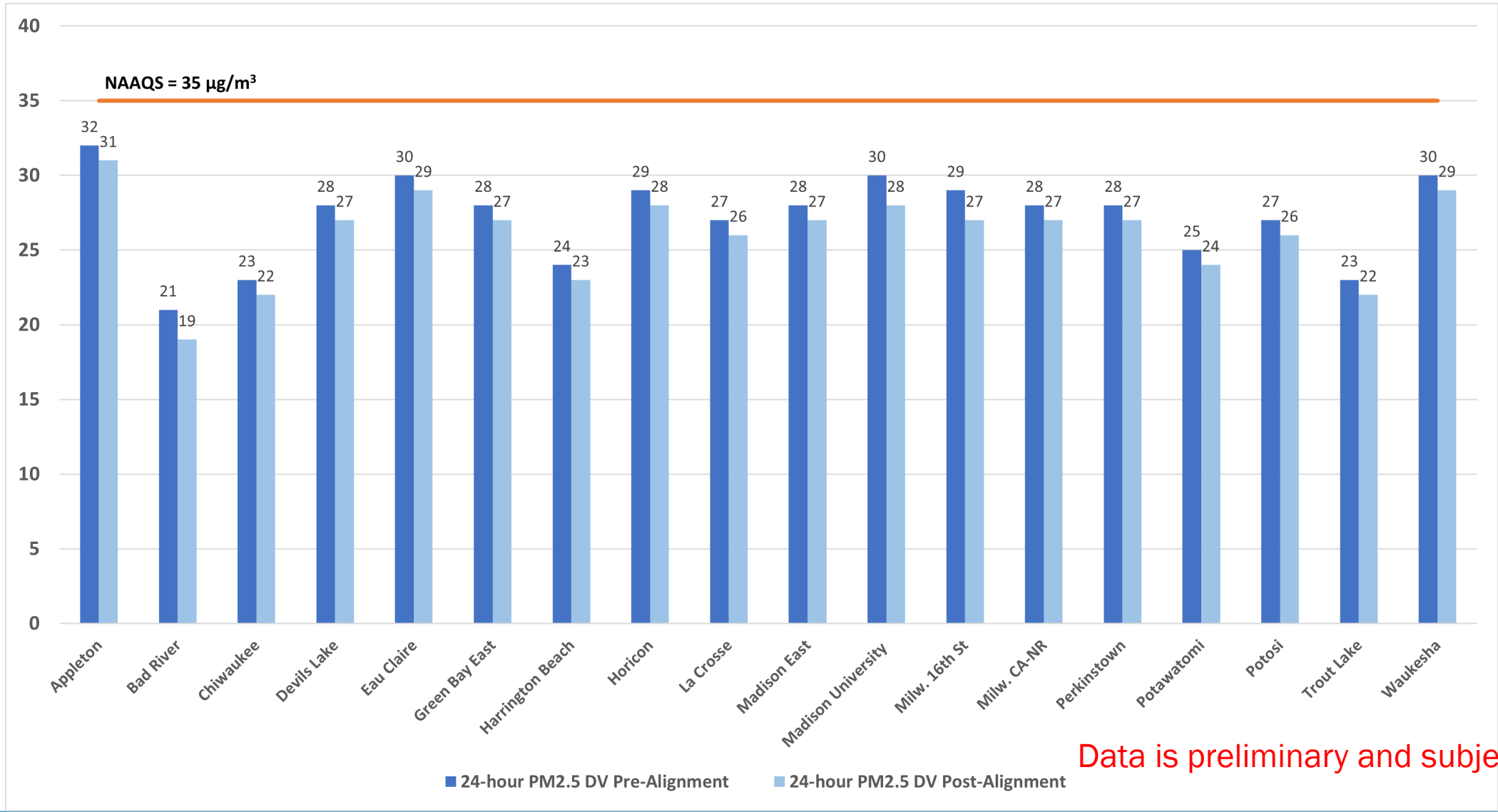


# 2023 PM2.5 Annual Design Values Before/After Alignment



Data is preliminary and subject to change

# 2023 PM2.5 24-hour Design Values Before/After Alignment



Data is preliminary and subject to change

# Annual Network Plan

Katie Praedel  
Air Monitoring Section Chief

# Annual Monitoring Network Plan/Review

## Consists of a main document and seven appendices

Includes monitoring requirements, monitor classifications, waivers and approvals, memorandums of agreement (MOAs), site descriptions, enhanced ozone monitoring (EOM) plan, monitoring network changes and sulfur dioxide (SO<sub>2</sub>) emissions assessment

May 13 – June 12, 2024 - Public Comment Period

May 29, 2024 at 12pm (CST) - Public Meeting via Zoom

June 21, 2024 - Submit final to EPA

120 days to approve

# 2024 Completed Network Changes

- **May 1, 2023 – December 31, 2024**
- Shutdown PM<sub>2.5</sub> monitoring at Trout Lake, La Crosse and Perkinstown
- Startup PM<sub>2.5</sub> monitor at Lake Dubay
- Horicon NATTS (PAHS and Metals) shutdown Dec 31, 2022-June 30, 2023 to recoup funding and re-evaluate site
- Start-up and shutdown of industrial monitors and SPM monitors associated with Enhanced Ozone Monitoring



# 2025 Proposed Network Changes

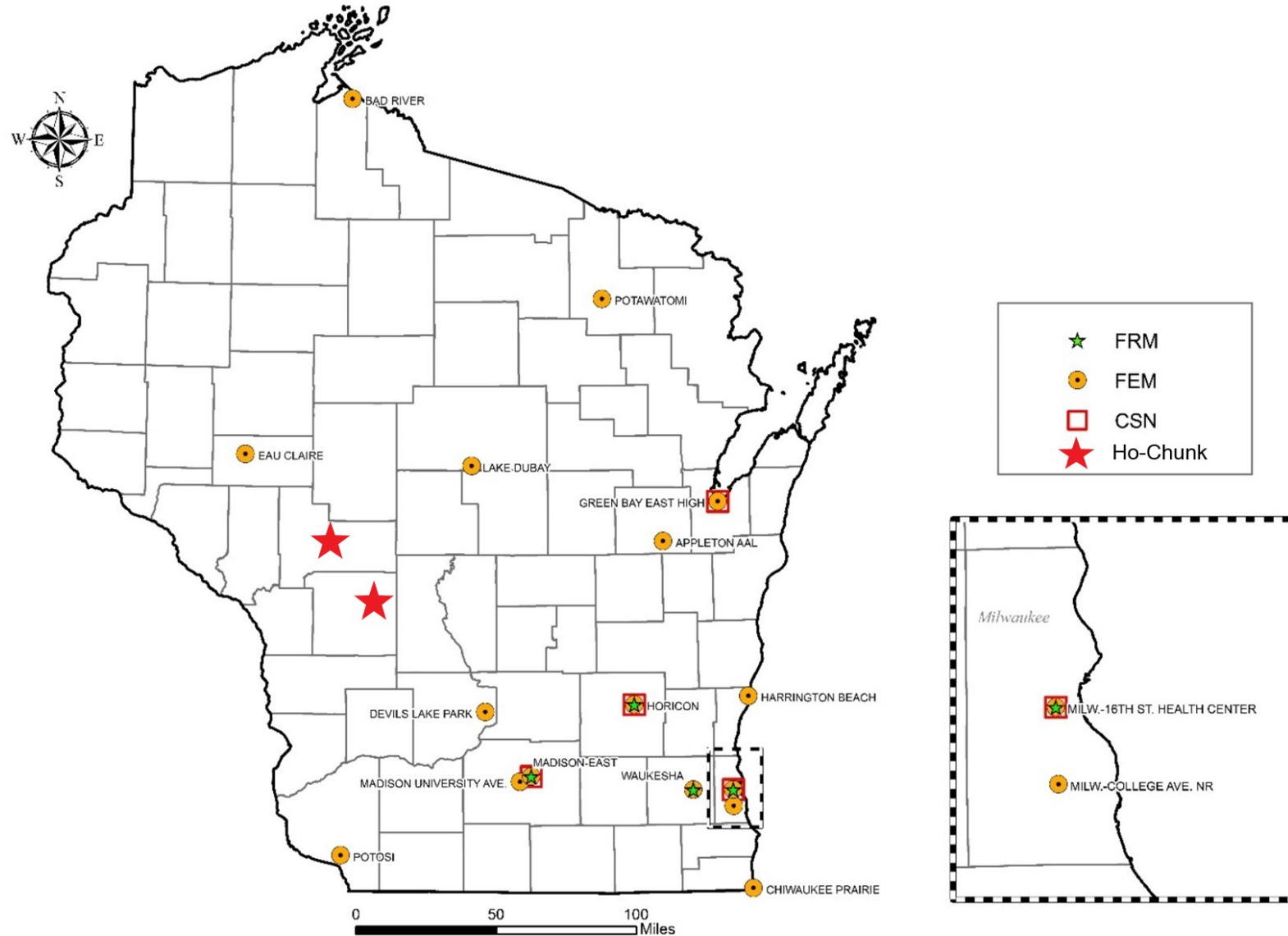
May 1, 2024 – December 31, 2025

- Add Met parameters to Eau Claire and Lake Dubay
- Shutdown SO<sub>2</sub> at Potawatomi
- Start-up and shutdown of industrial monitors and SPM monitors associated with Enhanced Ozone Monitoring
- Ho-Chunk tribe will potentially join DNR PQAO for two PM<sub>2.5</sub> sites located in Black River Falls and Wyville





# PM<sub>2.5</sub> Monitoring Sites in Wisconsin with potential Ho-Chunk Sites



# Ozone Network

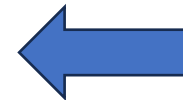
Wisconsin Ozone season is conducted April 1 – Oct 15

The exception is Kenosha County Sites (Chiwaukee and Kenosha Water Tower) whose season is from April 1 – October 31



Trout Lake

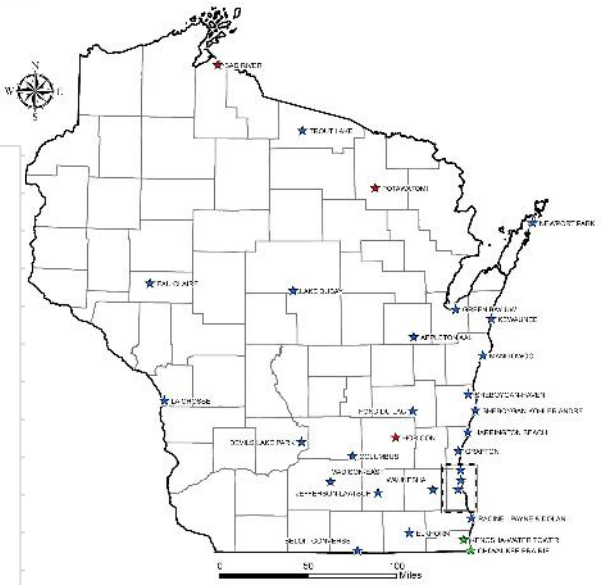
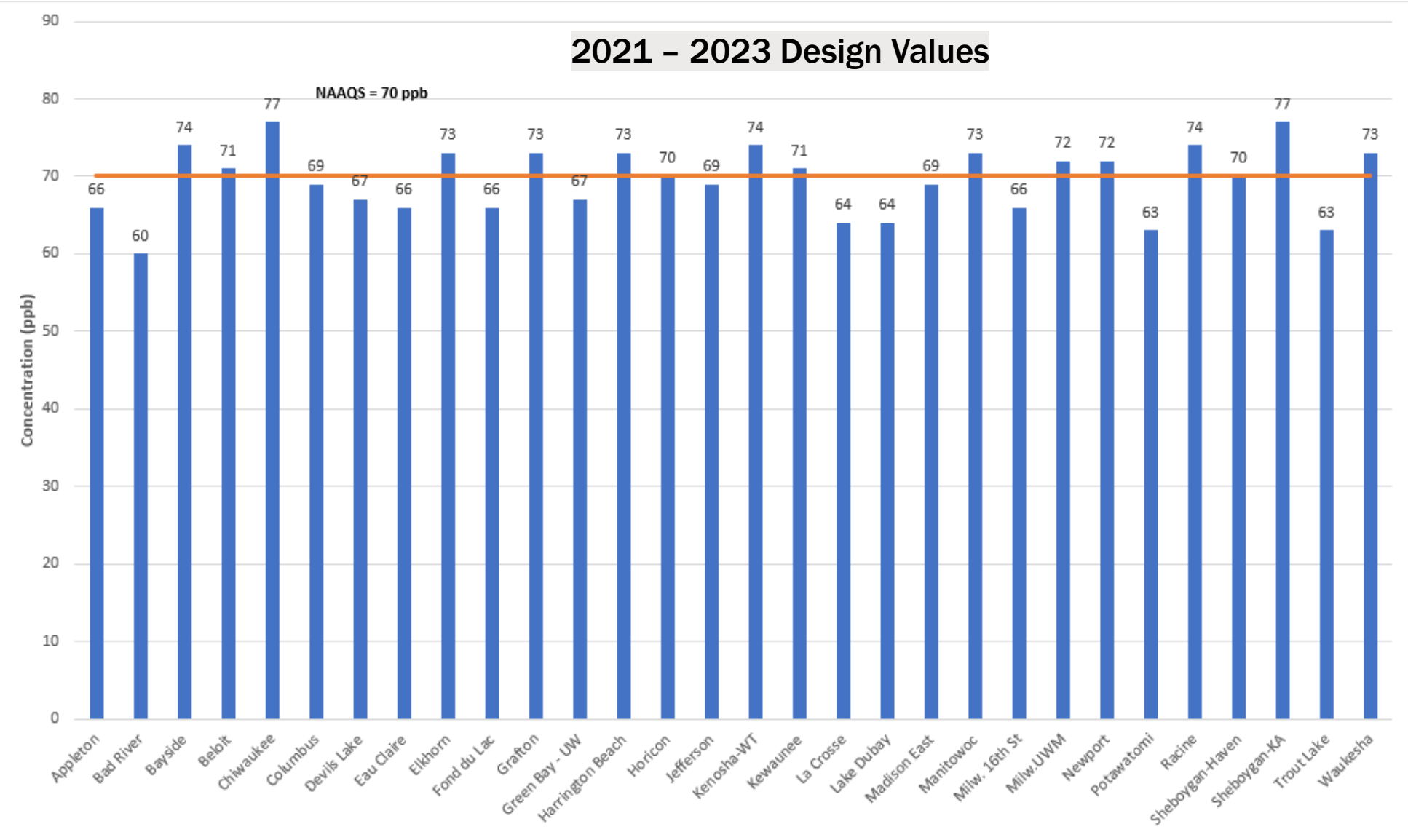
2024



Milwaukee 16<sup>th</sup> Street



# Ozone Network



# Sulfur Dioxide Monitoring

## Five Sites

- Horicon-NCORE requirement
- Potawatomi-rural background
- Milwaukee UWM-urban background
- Rhinelander & Kaukauna-source oriented

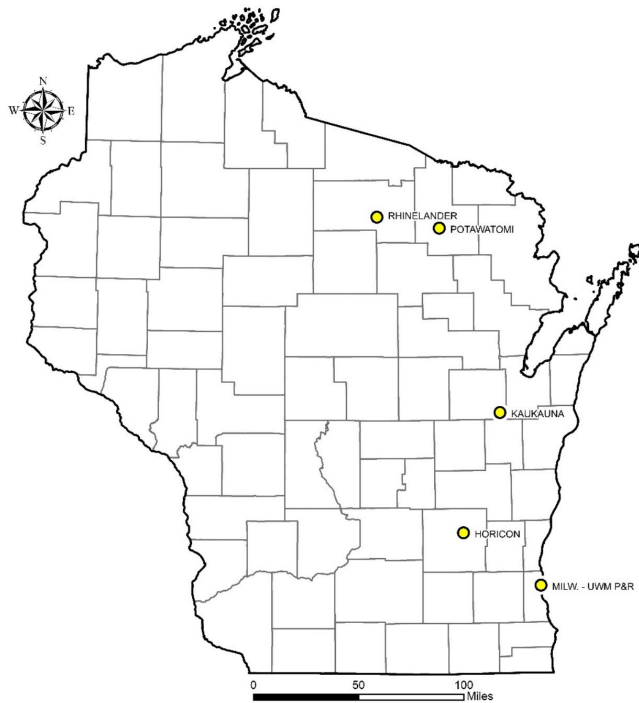
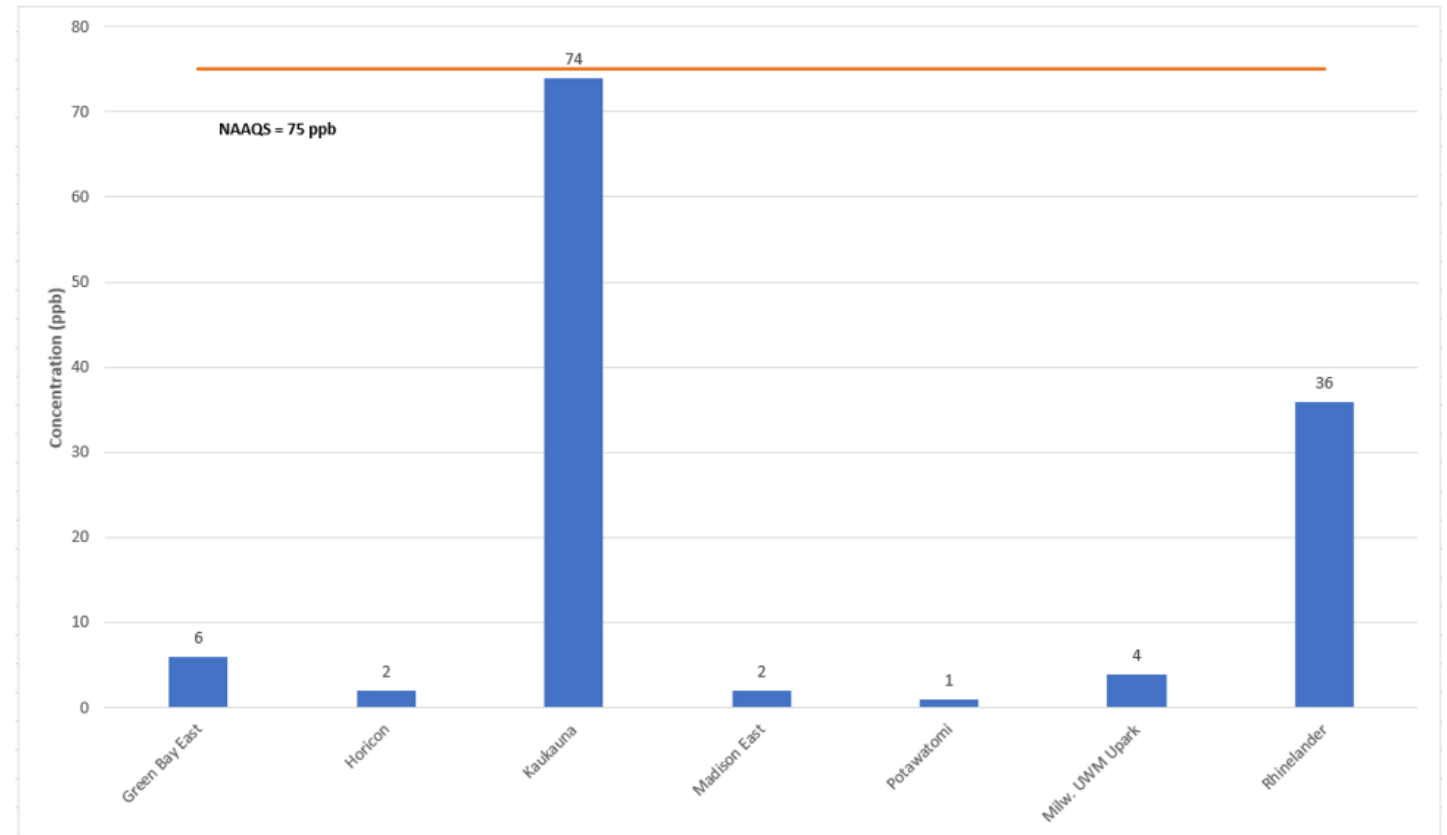


Figure 10: 1-hour SO<sub>2</sub> 2021-2023 Design Values Compared to the NAAQS



# NO<sub>2</sub> and CO Monitoring

Figure 8: 2024 NO<sub>2</sub> Monitoring Sites in Wisconsin

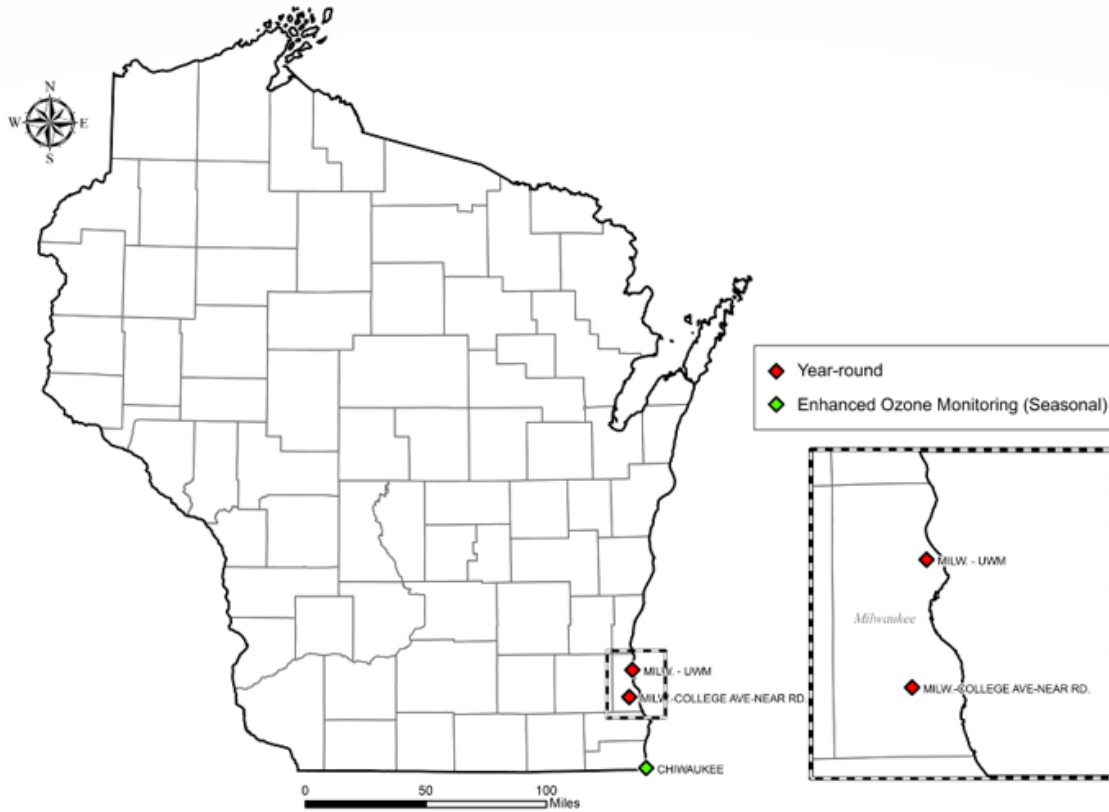
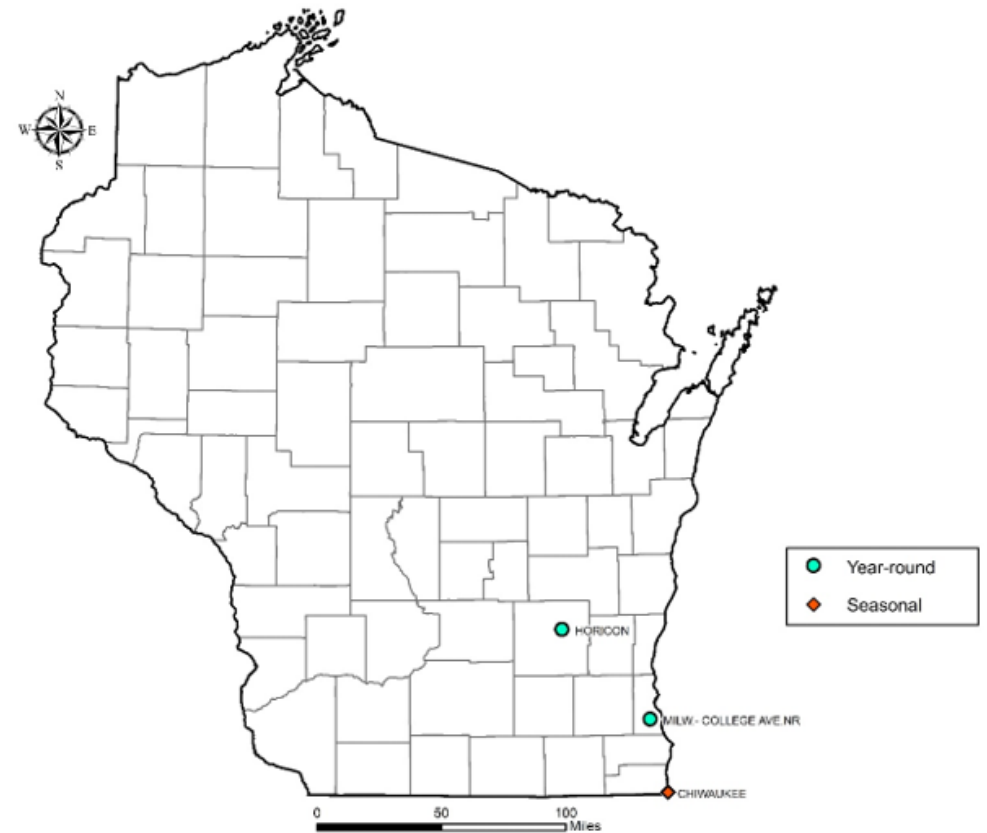


Figure 11: 2024 CO Monitoring Sites in Wisconsin



# Air Monitoring Open House

Katie Praedel  
Air Monitoring Section Chief

# Community Engagement

- Milwaukee DNR Headquarters  
May 30, 2024
- Topics
  - Air Management Program Update
  - Air Quality Index and Wisconsin Trends
  - American Rescue Plan funded air monitoring project(s) kick-off
  - Tours of Air Labs
  - Hands-on demo of sensors



# Goals of the Open House

- Engage community partners in air quality monitoring
- Inform on monitoring activities in the Menomonee Valley
- Educate attendees on differences between regulatory monitors and low-cost sensors
- Educate attendees interested in deploying low-cost sensors on appropriate data uses, quality assurance and siting requirements





# Member Updates

# Litigation Updates

Gail Good  
Air Management Director

# Start Up, Shutdown, Malfunction

- In 2015, EPA found that 45 state and local jurisdictions needed to revise and submit state plans to remedy SSM-related deficiencies (2015 SSM SIP Call)
- On February 24, 2023, EPA proposed to find three Wisconsin SSM rule provisions substantially inadequate. Seven other states were included in EPA's proposed 2023 SIP Call.
- D.C. Circuit decided *Environmental Committee of the Florida Electric Power Coordinating Group v. EPA* (15-1239) on March 1, 2024
- Petitioners challenged EPA SIP Calls related to four types of SSM provisions: automatic exemptions, director's discretion provisions, affirmative defenses, and overbroad enforcement discretion (TN only)
  - Court largely vacated EPA's SSM SIP Call, but left the door open for EPA to make additional determinations subject to judicial review

# Good Neighbor Plan

- In March 2023 EPA finalized the “Good Neighbor Plan” for the 2015 ozone NAAQS to address transported emissions for that ozone NAAQS
- Air Program identified numerous deficiencies with the final rule, including:
  - Failure to fully address upwind state contributions to Wisconsin nonattainment areas
  - Only addressed upwind NOx emissions
  - Did not address emissions from mobile sources (just power plants, some industry)
- Wisconsin is actively involved in litigation in the D.C. Circuit (*Utah v. EPA*, Case No. 23-1157), seeking a rule that more completely addresses upwind state contributions to Wisconsin. Opening briefs were due April 1; oral arguments likely in fall 2024

# Ozone Topics

Gail Good  
Air Program Director

Katie Praedel  
Air Monitoring Section Chief

# Ozone Planning Update

- Finding of Failure to Submit on Moderate area planning requirements - Due May 2025
  - Attainment demonstration
  - RACT
  - Contingency measures
  - Reasonable further progress
  - Transportation conformity budgets
- Moderate area attainment date for the 2015 NAAQS is August 3, 2024.
- Reclassification to Serious based on 2021-2023 data by February 3, 2025.

# 2024 Wisconsin Ozone Status

## Top Four 8-Hour Average Ozone Concentrations – as of **June 3, 2024**

Wisconsin Sites	Concentrations (ppb)				2024 Critical Values (2008 NAAQS)	Days at/above Critical Values (2008 NAAQS)	2024 Critical Values (2015 NAAQS)	Days at/above Critical Values (2015 NAAQS)	Preliminary 2022-2024 "Design Value" (2015 NAAQS)
	1st high	2nd high	3rd high	4th high					
Bayside	69	59	59	58	78	0	63	1	69
Chiwaukee	69	66	60	59	74	0	59	4	71
Elkhorn	69	61	61	60	76	0	61	3	70
Grafton	69	64	58	58	79	0	64	2	69
Harrington Beach	71	62	60	59	80	0	65	1	69
Kenosha-WT	68	66	59	58	77	0	62	2	69
Manitowoc	71	63	61	57	78	0	63	2	69
Newport	67	64	63	54	80	0	65	1	67
Racine	69	65	60	59	82	0	67	1	68
Sheboygan-KA	72	63	62	56	69	1	54	7	71
Waukesha	70	63	59	59	79	0	64	1	69

<b>2015 NAAQS: 70 ppb</b>	Non-Attainment for 2015 NAAQS	Reached 2015 Critical Value	Exceeded 2015 Standard
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Note: 2024 data have not yet been QA'ed or certified and are subject to change. Values are only shown for monitors that exceeded their critical value at least once.

# Ozone Data Resources – QR Codes

- View Air Quality using DNR webmap or mobile application
- Sign up for Air Quality Advisory Alerts
- View local predictive nowcast using EPA's AirNow website or mobile application



 **KNOW YOUR AIR**

This is a regulatory air quality monitoring site operated by the Wisconsin Department of Natural Resources.

Visit the DNR's **AIR QUALITY MAPPING TOOL!** Scan to find real-time air quality data from this site and others across the state. 

 **STAY AIR AWARE!** Scan to sign up to receive air quality notices by email or text from the DNR.





# CONNECT WITH US

Next Meeting

September 5, 2024



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OFF THE RECORD"