

Air Management Study Group Quarterly Meeting

May 5, 2022

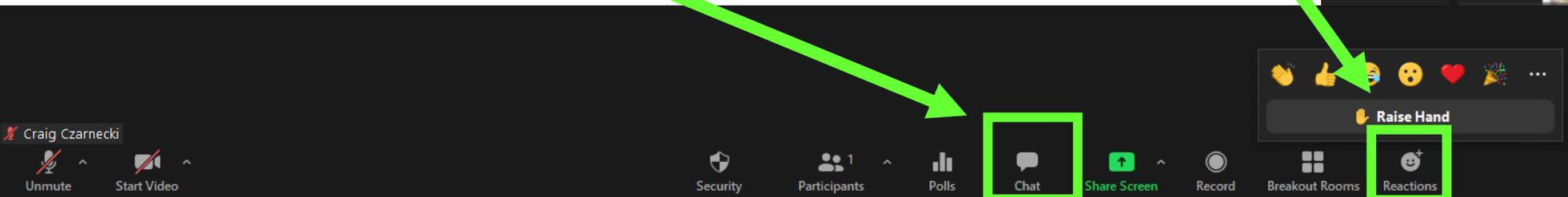
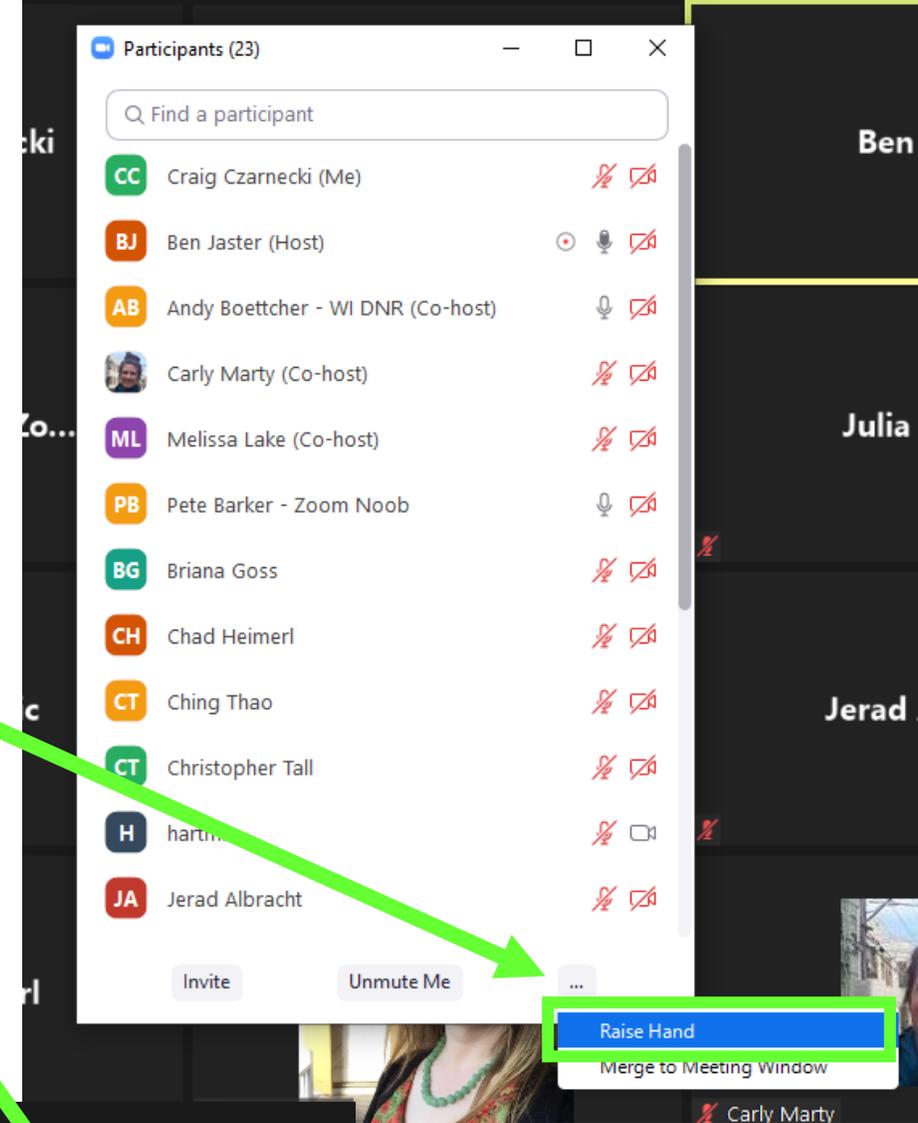
Zoom Guidelines

Hello Everyone,

We've developed some guidelines for this meeting, in the hopes of making this a smooth and enjoyable experience for all. Thank you in advance for your understanding.

Zoom Guidelines

- Questions will be addressed throughout the meeting.
- All participants will be muted during the meeting.
- If you'd like to speak, use the "Raise Hand" button and you will be unmuted when appropriate.
- Questions may also be asked in the chat. The chat is setup so that all messages are sent to the host privately.



Zoom Guidelines

- The host will attempt to respond to all messages received, but some messages may be missed.
- Participants will join the meeting with their video disabled. We ask that you keep your video disabled for the duration of the meeting.

Zoom Guidelines

- We ask for patience while the Air Program conducts this meeting with this setup.
- Zoom technical support: **support.zoom.us**

Air Management Study Group Quarterly Meeting Agenda

- Opening remarks & agenda review
- Proposed guidance, rules and legislative update
- NR428 Listening Session
- Public Involvement Web Updates
- Annual Network Plan
- Bipartisan Infrastructure Law
- Member Updates
- Clean Energy Plan
- Electric Vehicle Study
- Ozone Topics
- AMMSG Membership
- Clean Air Month

Proposed Guidance and Rules Legislative Update

Kristin Hart, Permits and Stationary Source Modeling Section Chief

Jason Treutel, Air Quality Planning and Standards Section Chief

DNR Guidance

DNR Guidance in Drafting Phase	Description	Target Date
Municipal Solid Waste Landfills	Updates to guidance for MSW Landfills	Spring 2022
DNR Guidance in Public Comment	Description	Date Posted
None		
DNR Guidance in Final Review Phase		Target Posted
None		
Finalized DNR Guidance	Location	Final Date
Response to comment on Nonroad and Motive Engine Testing operations - TSD will not be finalized	Response to Comments Nonroad TSD	Response to Comments posted 4/7/2022

Proposed/Final DNR Rules

Proposed DNR rule	Description	Phase
AM-20-18 VOC RACT Revisions	Updates RACT rules in ch. NR 422 to meet current EPA Guidelines for Miscellaneous Metal and Plastic Parts Coatings, and Miscellaneous Industrial Adhesives, and other updates.	With Legislative Reference Bureau for publication CR 20-088 (wisconsin.gov)
AM-10-19 2015 Ozone NAAQS	Incorporates the 2015 ozone NAAQS into state rule and makes related updates.	Published CR 21-022 (wisconsin.gov)
AM-31-19 Emissions Inventory Reporting	Revises NR 438 to align with federal Air Emissions Reporting Rule requirements, resolves inconsistencies between state and federal emissions reporting, and addresses ambiguities in current rule.	In Legislative review CR 21-072 (wisconsin.gov)
AM-05-21 NOx RACT Rule	Updates RACT rules in NR 428 to address implementation issues that have been identified since previous NR 428 revisions in 2001 & 2007	Rule Drafting
AM-05-22 Compliance Demonstration Rule	Updates to testing, monitoring, recordkeeping, reporting requirements for compliance	Scope Statement signed by Secretary's office 4/25/2022;

Proposed EPA Rules/Guidance

Proposed EPA rule/guidance	Docket	Comments due
Redesignation of Indiana Portion of Chicago-Naperville Area to Attainment for the 2008 Ozone Standard	EPA-R05-OAR-2020-0743	04/04/2022
Redesignation of Illinois Portion of Chicago-Naperville Area to Attainment for the 2008 Ozone Standard	EPA-R05-OAR-2022-0137	04/11/2022
EPA Disapproval of State Transport SIPs for the 2015 Ozone Standard for Regions 5, 6, 7 (3 separate proposals)	EPA-R05-OAR-2022-0006 , EPA-R06-OAR-2021-0801 EPA-R07-OAR-2021-0851	04/25/2022
Control of Air Pollution from New Motor Vehicles: Heavy-Duty Engine and Vehicle Standards	EPA-HQ-OAR-2019-0055	05/16/2022
Removal of Title V Emergency Affirmative Defense Provisions from State Operating Permit Programs and Federal Operating Permit Programs (SSM)	EPA-HQ-OAR-2016-0186	05/16/2022

Proposed EPA Rules/Guidance (cont)

Proposed EPA rule/guidance	Docket	Comments due
Federal Implementation Plan Addressing Regional Ozone Transport for the 2015 Ozone NAAQS	EPA-HQ-OAR-2021-0668	06/06/2022
Determinations of Attainment for the 2008 Ozone NAAQS	EPA-HQ-OAR-2021-0741	06/13/2022
Determinations of Attainment for the 2015 Ozone NAAQS	EPA-HQ-OAR-2021-0742	06/13/2022

Finalized EPA Rules/Guidance

Finalized EPA rule/guidance	Link	Date finalized
Light Duty Vehicle Standards	NHTSA-2021-0053	04/01/2022
Manitowoc Redesignation Request for 2015 Ozone NAAQS	EPA-R05-OAR-2021-0141	03/31/2022
Kenosha Redesignation Request for 2008 Ozone NAAQS	EPA-R05-OAR-2021-0885	04/11/2022
Door County Redesignation Request for 2015 Ozone NAAQS	EPA-R05-OAR-2022-0008	04/29/2022

NR428 Rule Listening Session

Kristin Hart

Permits and Stationary Source Modeling Section Chief

Stakeholder Input Needed for NOx RACT Rule Updates

- **Updates to NOx Reasonably Available Control Technology (RACT)**
 - Ensure clear and consistent implementation of RACT rule
 - Clarify exemption and emission limitation applicability
 - Address emissions averaging requirements
 - Clarify compliance and monitoring requirements
- **Stakeholder Meeting on AM-05-21 - NOx RACT Updates**
- **Date: May 31, 2022 from 2:00 - 3:30**
- **Milwaukee Service Center Harbor Room 107**
- **Zoom link will be available**



Public Involvement Web Updates

Kristin Hart

Permits and Stationary Source Modeling Section Chief

Updates to Public Notice Website

[Air Permit Public Involvement | | Wisconsin DNR](#)

DNR updated the webpage for posting public notices

- Easier access to permit review documents available for public comment
- Created additional webpages with links to factsheets and other helpful information
 - Flow Charts describing the permit review process
 - Plain language guides to the Analysis and Preliminary Determination and other permit review documents
- Added a new table with links to permit applications currently under review prior to public notice
- Added a new table with links to final permit decisions and supporting documents

Permit Applications Received

The table below lists applications for air pollution control permit actions currently under review by DNR's Air Management Program. The applications will remain on this list up to 180 days or until DNR posts a public notice that the review of the application is available for public comment. Once the application becomes available for public comment, the draft permit will move to the [public comment table](#). When a final permit decision is made, the item will move to the [final permit decision table](#).

The Application is viewable by clicking on the permit number.

CONTACT INFORMATION:

For air permit public comment questions or opportunities, contact [Kristin Hart](#)

For questions about this webpage, contact [Megan Corrado](#)



<u>Facility name</u>	<u>County</u>	<u>Permit number</u>	<u>Application received</u>	<u>Permit writer</u>
CARDINAL FG	COLUMBIA	11107118A-P21	03/09/2022	Yeung, Paul O
CARDINAL FG	COLUMBIA	22-POY-021	03/09/2022	Yeung, Paul O
DIDION MILLING-CAMBRIA	COLUMBIA	21-QRL-047-R1	03/07/2022	LeSage, Quinton R
UNIROYAL ENGINEERED PRODUCTS LLC	DANE	11300421A-P40	03/04/2022	Crawford, Carol V
WOOD ECOLOGY INC	EAU CLAIRE	61806305A-F12	03/04/2022	Goonewardena, Ruhun S
3M - MENOMONIE PLANT	DUNN	22-QRL-018	03/02/2022	LeSage, Quinton R

Annual Air Monitoring Network Plan

Katie Praedel

Monitoring Section Chief

Annual Monitoring Network Plan/Review

May 11 – June 10, 2022 - Public Comment Period

May 25, 2022 - Public Meeting via Zoom

June 15, 2022 - Submit final to EPA

120 days to approve

Draft Annual Network Plan will be posted here:

<https://dnr.wisconsin.gov/topic/AirQuality/Monitor.html>

Public Meeting information here:

<https://dnr.wisconsin.gov/calendar>

2022 Completed Network Changes

- **May 1, 2021 – December 31, 2022**
- Completed the relocation of Milwaukee SER DNR Headquarters, to a site approximately 2 miles north of the current site at Milwaukee UWM Park & Ride 4498 Humboldt Blvd. Milwaukee, WI 53212
- Start-up and shutdown of industrial monitors and SPM monitors associated with Enhanced Ozone Monitoring



2023 Proposed Network Changes

- **May 1, 2022 – December 31, 2023**
- Shut down SO₂ monitors at Green Bay East and Madison East Sites
- Milwaukee UWM Park and Ride site Ozone monitor will change operation from year-round to seasonal
- Start-up and shutdown of industrial monitors and monitors associated with Enhanced Ozone Monitoring



Bipartisan Infrastructure Law

Gail Good
Acting Environmental Division Administrator

Jason Treutel
Air Quality Planning and Standards Section Chief

BIL Impacts in the EM Division

- Infrastructure Investment and Jobs Act (H.R. 3684), known as the Bipartisan Infrastructure Law (BIL)
- Approximately \$1 trillion transportation, water, broadband and electric grid infrastructure bill
- Legislation provides for unprecedented infusion of funds into communities across Wisconsin for modernizing drinking water infrastructure, replacing lead service lines, addressing contaminants of emerging concern, expanding programs for small, rural and disadvantaged communities
- Significant sources of new funding for Wisconsin, including allotments for state revolving loan programs for water infrastructure projects

Clean School Bus Program Funding

- Federal funding administered by EPA over next five years (FY 2022-2026)
- \$5 billion in funding
 - 2.5 billion for zero emission school buses
 - 2.5 billion for clean school buses
- Funding available for vehicle replacement and charging/fueling infrastructure
- Midwest states may see 1,000-2,500 EV buses
- Application period expected to open in May

Wisconsin DOT Bill Funding

- Federal funding administered by Wisconsin DOT over next five years (FY 2022-2026)
- ~1.29 Billion over 5 years
- Funding for local programs such as:
 - Surface Transportation Program (STP)
 - Local Bridge Improvement Assistance Program
 - Transportation Alternatives Program (TAP)
 - Congestion Mitigation and Air Quality Program (CMAQ)
 - Focuses on Nonattainment areas
 - Reduce emissions related to traffic congestion, improve vehicle and fuel technologies, reduce overall number of motorized vehicle trips & miles traveled
 - Project examples: Transit vehicle acquisition, traffic control technologies, bicycle/pedestrian facilities

Member Updates



WISCONSIN OFFICE OF
Sustainability
& Clean Energy

STATE OF WISCONSIN

CLEAN ENERGY PLAN



Maria Redmond
Director of the Wisconsin Office of Sustainability and Clean Energy

WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

Electric Vehicle Study

Paul Meier

UW Center for Sustainability and Global Environment

Ozone Topics

Katie Praedel
Air Monitoring Section Chief

Jason Treutel
Air Quality Planning and Standards Section Chief



Enhanced Ozone Monitoring

May - Sept

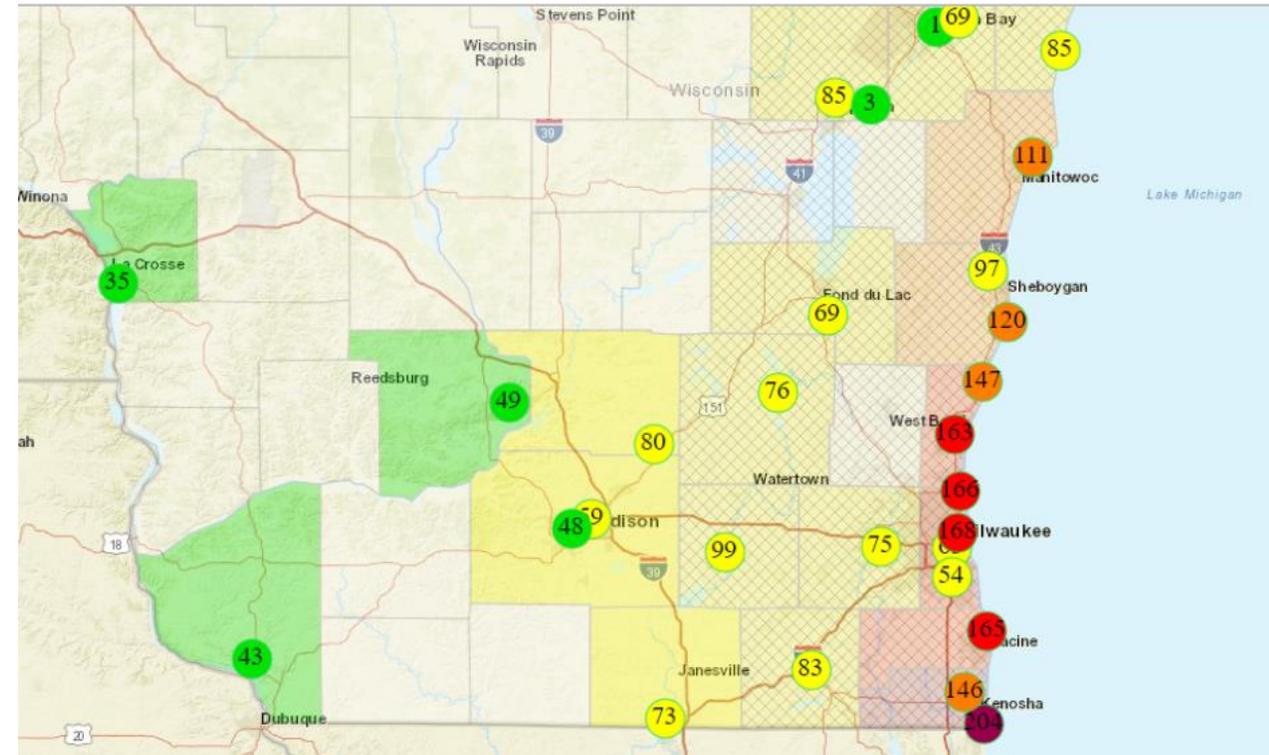
Enhanced Ozone Monitoring - DNR

MAML at Sheboygan

- Currently Installed and running: MET, CO, NO_x by CAPS, O₃,
- Precursor sampling through: VOC & Carbonyl samplers

Chiwaukee

- Currently Installed and running: MET, CO, NO₂ by CAPS, Solar Radiation
- Precursor sampling through: VOC & Carbonyl samplers



Enhanced Ozone Monitoring – External Partners

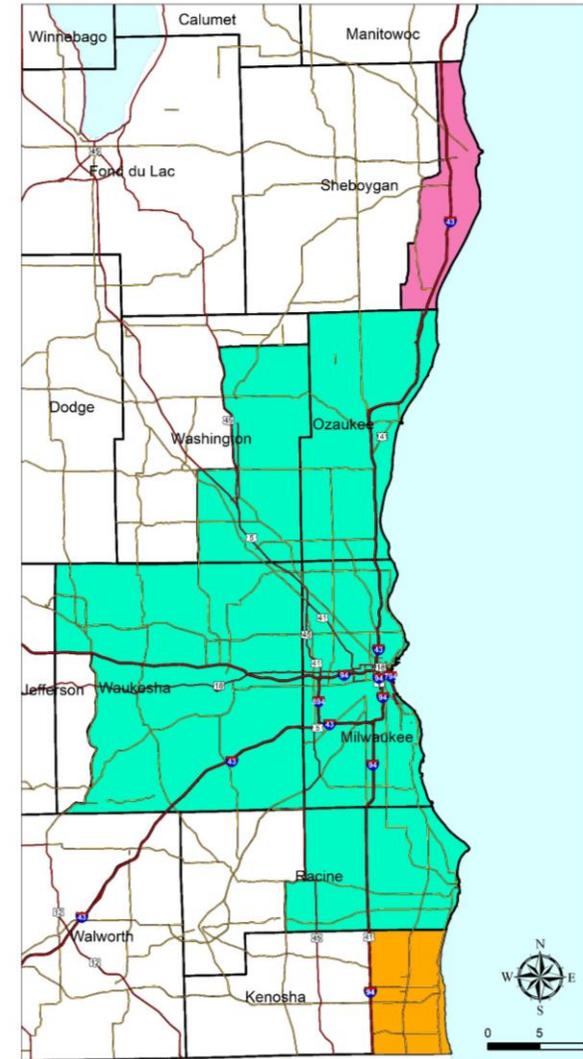
- Wind Lidar – Brad Pierce, Director, Space Science and Engineering Center – University of Wisconsin
- Pandora – EPA Office of Research and Development
- Drones – UW Eau Claire
- Viking Research Cruise ship – National Oceanic and Atmospheric Administration

Wisconsin Redesignation Requests

- Kenosha 2008 Ozone Redesignation Request – EPA finalized approval on 4/11/22 with an immediate effective date
- Manitowoc 2015 Ozone Redesignation Request – EPA finalized approval on 3/31/22 with an immediate effective date
- Door 2015 Ozone Redesignation Request – EPA finalized approval on 4/29/22 with an immediate effective date

Wisconsin Nonattainment Area Bump-ups

- 2008 Serious to Severe
 - Proposes bump up for Chicago-Naperville Nonattainment area but acknowledges redesignation requests in progress
 - Kenosha is redesignated – no impact from bump-up
- 2015 Marginal to Moderate
 - Proposed bump-up for Sheboygan, Kenosha, Milwaukee, Door County
 - Door County is redesignated – no impact from bump-up
 - Proposed attainment for Manitowoc – This area has been redesignated



Wisconsin Nonattainment Area Bump-ups

- Impacts for Nonattainment Areas

- NSR Offset Ratio increases to 1.15 : 1
- VOC/NO_x RACT
- Major source threshold for NO_x/VOC remains at 100 ton/year

		NSR offset ratio	Major source threshold
EXTREME (20 years to attain)	TRAFFIC CONGESTION CONTROLS (if appropriate)	1.5 : 1 Extreme	10
	CLEAN FUELS REQUIREMENT FOR BOILERS		
	PENALTY FEE PROGRAM FOR MAJOR SOURCES		
SEVERE (15/17 years to attain)	LOW VOC REFORMULATED GAS (as appropriate)	1.3 : 1 Severe	25
	VMT GROWTH DEMONSTRATION (& TCMs if needed)		
	VMT DEMONSTRATION (& TCMs if needed)		
	NSR REQUIREMENTS FOR EXISTING SOURCE MODS		
SERIOUS (9 years to attain)	ENHANCED MONITORING PLAN	1.2 : 1 Serious	50
	CLEAN FUELS PROGRAM (if applicable)		
	MODELED DEMO OF ATTAINMENT		
	MILESTONE DEMONSTRATIONS and CONTINGENCY MEASURES FOR RFP		
	3% ANNUAL RFP UNTIL ATTAINMENT		
	ENHANCED I/M for larger population areas		
MODERATE (6 years to attain)	CONTINGENCY MEASURES FOR FAILURE TO ATTAIN	1.15 : 1 Moderate	100
	Stage II Gasoline Vapor Recovery		
	BASIC VEHICLE I/M for larger population areas		
	15% VOC ROP or 15% VOC/NO _x RFP (OVER 6 YEARS)		
	VOC/NO _x RACT for MAJOR/CTG SOURCES		
MARGINAL (3 years to attain)	ATTAINMENT DEMONSTRATION	1.1 : 1 Marginal	100
	TRANSPORTATION CONFORMITY DEMONSTRATION (MVEBs)		
	NONATTAINMENT NEW SOURCE REVIEW PROGRAM		
	MAJOR SOURCE EMISSION STATEMENTS		
	BASELINE EMISSION INVENTORY (EI)		PERIODIC EMISSION INVENTORY UPDATES

EPA's Proposed "Good Neighbor" Transport Rule for the 2015 Ozone NAAQS

- The Clean Air Act requires states that significantly contribute to ozone nonattainment or maintenance in another state address these contributions by reducing emissions (the "good neighbor" provision).
- On February 28, 2022, EPA proposed a "transport rule" to address good neighbor obligations for the 2015 ozone NAAQS for 26 states, including Wisconsin.
- This rule requires emissions reductions at power plants and/or certain industrial sources in 25 of these states.
- Once finalized, EPA will consider transport obligations resolved for the 2015 ozone NAAQS.

Why is this proposal important to Wisconsin?

- Wisconsin has multiple 2015 ozone NAAQS nonattainment areas:
 - Parts of Kenosha and Sheboygan counties.
 - Much of the 5-county Milwaukee area.
- Based on EPA's data, Wisconsin contributes 8-15% to its own nonattainment areas while other states contribute between 42-48%.
- Wisconsin cannot meet upcoming 2015 ozone NAAQS attainment dates without additional, significant emissions reductions in upwind states.

Covered states and linkages to/from Wisconsin



25 states are linked to other states and will need to reduce emissions.

Wisconsin contributes to one state: Illinois (Chicago area monitors)

Six states contribute to Wisconsin: MI, OH, IN, IL, MO, TX

(EPA's modeling also links AR to WI, but this is not reflected in transport rule)

How will this rule impact Wisconsin ozone levels?

- Near-term improvements in air quality are small at Wisconsin monitors.
- In 2023: rule reduces ozone by 0.1 ppb
 - This is less than what upwind states need to do to address their contributions.
- In 2026: reduces ozone by 0.6 ppb
 - This is better, but insufficient to ensure Wisconsin areas stay in maintenance.
- Most Wisconsin nonattainment areas still have nonattainment or maintenance concerns in 2026, even with rule.

Some concerns with this proposal

- Does not require upwind states to reduce emissions sufficiently to address their impacts on Wisconsin.
 - Wisconsin sources will need to “make up” for the emissions reductions not being made in other states.
- Sheboygan is completely missing from this rule, even though EPA modeling shows the Kohler-Andrae monitor will be in nonattainment through at least 2032.
 - Kohler-Andrae projects to be highest ozone monitor in Midwest.
 - EPA provides no justification for omitting this monitor from transport assessment.
- EPA’s assumptions about Wisconsin sources, especially non-EGUs, will need to be assessed and verified.

Information and commenting

Commenting

- EPA is taking comment on the proposal through June 6, 2022. Comments can be submitted to this regulatory docket: <https://www.regulations.gov/docket/EPA-HQ-OAR-2021-0668>.

For more information

- Complete information about this proposal is available on EPA's webpage [here](#).
- EPA's summary of the proposal is linked directly [here](#).

Ozone Transport FIP Public Meeting

- May 11, 2022 9:00-10:00 via [Zoom](#)
- DNR will review the FIP in more detail with a broad stakeholders group

AMSG Membership

Kristin Hart
Acting Air Management Program Director

AMSG Membership

- Air Management Study Group was formed in 2013
- While individual members have come and gone, member representation has stayed the same since AMSG was formed
- As we near the 10-year mark of AMSG, timing is right to review membership
- DNR provided the current membership with a survey and reviewed responses with the group at a meeting in March
- Existing members and DNR will meet again in late May to finalize membership



Clean Air Month

Craig Czarnecki
Air Management Outreach Coordinator

Trends since early 2000's

- PM_{2.5} concentrations dropped 35%
- VOC concentrations dropped 39%
- SO₂ emissions from large sources dropped 92%
- Lakeshore ozone concentrations dropped 25%
- Entire state is meeting all SO₂, PM, NO₂, CO and PB standards

Kohler-Andrae State Park Display Before...

Please do not touch!
Working air quality
monitoring equipment.

This Room is Dedicated
To The Memory Of
FRED HAINER



Kohler-Andrae Air Monitoring Site

LAKE EFFECT

People who live near the lake or have visited the lakefront know that Lake Michigan influences many aspects of the weather. For example, it is generally cooler near the lake in the summer and a bit warmer in the winter. The lake also has a role in shoreline air quality.



A. Early morning pressure gradients blow precursor pollutants out over Lake Michigan where they remain throughout the warmest periods of the day, continually reacting in the presence of heat and sunlight to create ozone. **B.** Southerly winds, in combination with the lake breeze, push ozone formed over the lake onshore, causing ozone concentrations in Wisconsin to be closely correlated with the distance from the Lake Michigan shoreline. Southerly winds carry the ozone plume gradually northward along Wisconsin's coastline.

TRANSPORT



Factors that affect Wisconsin's air quality include those in neighboring states, particularly those to the south. High concentrations of ozone precursors are experienced along Lake Michigan on days with southerly winds. These precursors are transported north into Wisconsin.

OZONE

Ground-level ozone is created by chemical reactions between pollutants in the air rather than being directly emitted. Precursor pollutants such as volatile organic compounds (VOCs) and nitrogen oxides (NOx) react in the presence of UV light and heat from the sun to create ozone (O₃).



EQUIPMENT

The DNR monitors air quality at sites like this across Wisconsin. The equipment located in this room and on the roof of the building are part of the state-wide air quality monitoring network responsible for reporting near real-time air quality information to the public. The Kohler-Andrae site measures ground level ozone concentrations in the outside air as well as temperature, wind speed and wind direction.

DNR air monitoring field operators use OZONE ANALYZERS to measure ozone in the outside air. Air is drawn into the analyzer through the inlet and moved throughout the analyzer via the air stream. The air sample eventually reaches an optical bench where ozone is

Air Quality Index

Category	Scale	Description
GOOD	0-50	Little or no health effects.
MODERATE	51-100	Mild health effects possible for unusually sensitive people.
UNHEALTHY FOR SENSITIVE GROUPS	101-150	People with heart or lung conditions, seniors and children may experience health effects.
UNHEALTHY	151-200	Everyone may experience some health effects.
VERY UNHEALTHY	201-300	Everyone may experience more serious health effects.

This Room is Dedicated To The Memory Of FRED HAINER

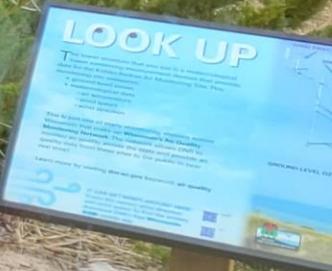


Please do not touch!
Working air quality monitoring equipment.



LOOK UP

Learn more about air quality and how you can help improve it.



After

News Release and Social Media

- May is Clean Air Month!
- Public Interaction Webpage
- Can I Burn? Tool
- Bike to Work Week
- Poetry Contest Winner
- Do a Little, Save a Lot
- Enhanced Ozone Monitoring Video
- Reducing Food Waste
- Kohler Andrae Display



Clean Air Month Webpage

- Public involvement page
- EOM video
- Committed to Clean Air video series
- Clean Air Bingo
- Air Quality Data Map
- Trends Report
- WisconsinAQM mobile app
- Sign up to receive news and notifications

CONNECT WITH US

Next Meeting

Thursday August 4, 2022



/WIDNR



@WIDNR



@WI_DNR



/WIDNRTV



"WILD WISCONSIN:
OFF THE RECORD"