AIRNET Workshop 2

June 2025

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MINNESOTA POLLUTION CONTROL AGENCY

Agenda

- Introductions
- Recap of the last meeting
- Goals for the day
- Review of draft monitoring plans
- Discussion, voting, and alterations to proposed monitoring plan
- Siting: Identify locations for air monitors
- Next steps

Introductions

Name

Were you here for the first meeting?

How are you feeling today?

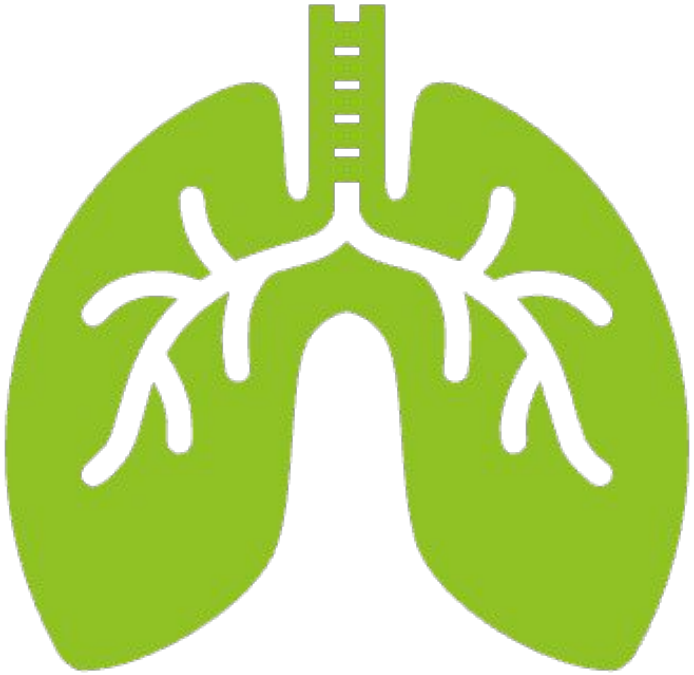
Updates from MPCA

- 2023 Legislative session funding. Project period to end June 2027.
- Draft report to be submitted to the Legislature Feb 2026
- 3 total projects awarded:
  - AIRNET
  - Clean Air for all – UofM UROC, Liberty community church
    - 25 nodes
    - Combination of indoor and outdoor pollution monitoring
    - Primarily in Minneapolis
    - Also using some form of a stationary mobile monitor
  - Neighbors for Clean Air – OSLUV, MN state Mankato, Frogtown, Hamline-Midway
    - Primarily heavy metal monitoring
    - Frogtown neighborhood and Hamline Midway area

Recap of Workgroup 1: West 7th

- Introductory air quality information
  - Interested? Watch Webinar 1 of EPA's Community Air Monitoring Fundamentals
- Discussion and prioritizing of our top interests for the project:
  1. Transportation & traffic
  2. FCC trash truck lot
  3. Other local industry

Community	Concern #1	Concern #2	Concern #3
NENO	Transportation & traffic	Non-transportation industry	Health Impacts
West 7th	Transportation & traffic	FCC trash truck lot	Other local industry
PPCC	Northern Iron	Transportation & traffic	Health Impacts
GESCC	Transportation & traffic	Youth	Northern Iron
UPDC	Transportation & traffic	Backyard burning	Health Impacts



Goals for the Day

1. Review draft monitoring plans and select the path forward
2. Begin finding locations where we can site air monitors

Draft Monitoring Plans

These drafts are meant to serve as conversation starters but are based on input/priorities from the first workgroup sessions, current science, and existing technology.
All plans include approximate numbers. Final draft proposals will include more accurate sensor numbers

West 7th

West 7th Plan #1: Understanding Traffic and Transportation

Objective:

- Monitor transportation pollution in the neighborhood to understand where pollution hotspots are in our community and learn more about the spatial extent of impacts from high-traffic roads

Focus:

- Passenger vehicles and light-to-medium duty trucks (non-diesel).

This project will extensively monitor **NO_2 and $PM_{2.5}$** at locations of high traffic and at locations that have relatively less traffic pollution as a comparison.

Monitors:

- 8 NO_2 & $PM_{2.5}$ monitors
- 5-10 PurpleAir sensors

West 7th Plan #2: Understanding Mixed Use Truck Traffic and Transportation

Objective:

- Monitor transportation pollution in the neighborhood to understand where pollution hotspots are located in our community and learn more about the spatial extent of impacts from these high-traffic roads

Focus:

- Multiple forms of transportation including gas- and diesel- powered vehicles, as well as trains

This project will extensively monitor **Black C, NO_2 and $PM_{2.5}$** at locations of high traffic and at locations that have relatively less traffic pollution as a comparison.

Monitors:

- 6 NO_2 & $PM_{2.5}$ monitors
- 2 Black Carbon monitors
- 5-10 PurpleAir sensors

West 7th Plan #3: Looking at CNG Trucks, traffic, and general air quality

Objective:

- Monitor increased road use from the FCC lot and transportation/general pollution in the neighborhood to understand where pollution hotspots are located in our community and learn more about the spatial extent of impacts from these high-traffic roads

Focus:

- FCC truck lot, general traffic, high-traffic locations, other sources of particulates

Monitors:

- 5 PM_{10}, $PM_{2.5}$, NO_2 sensors
- 5-10 PurpleAir sensors

Siting Air Monitors

What are the requirements for a siting location?

Each site must help us meet our air monitoring goals.

Secure space: Placed out of reach of the public, could be on a porch, deck, on the backside of a building, or in a fenced outdoor space.

Appropriate attachment or location:

- Attached to an existing pole or support (e.g. a flag pole, a porch column, gutter downspouts)
- Attached to temporary T-posts in the ground
- In an industrial cage
- Drilled into a building/fence

Access: Need to be accessible by project staff during regular business hour for occasional maintenance.

Power: A normal 120V outdoor plug, or space for a solar panel. Most air monitors pull very little power.

Wi-fi/Cellular data: Consistent cellular or wi-fi connection, depending on the device.

Other requirements:

- The unit should be in a space with decent airflow (i.e. not in a corner).
- The unit should not be placed on a roof, which can be difficult to access.

Some Examples

Where can we monitor?
Homes, businesses, other locations

High traffic areas

Major intersections

Near expected sources

In neighborhoods

Near communities of concern (youth, seniors, etc.)

Next Steps

- Take information from today & create final air monitoring plan
- Send out for feedback in late July
- Late summer/early fall: begin monitoring!

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