

Badger Mill Creek Project PLUS

Phosphorus Limits and Updated Solutions

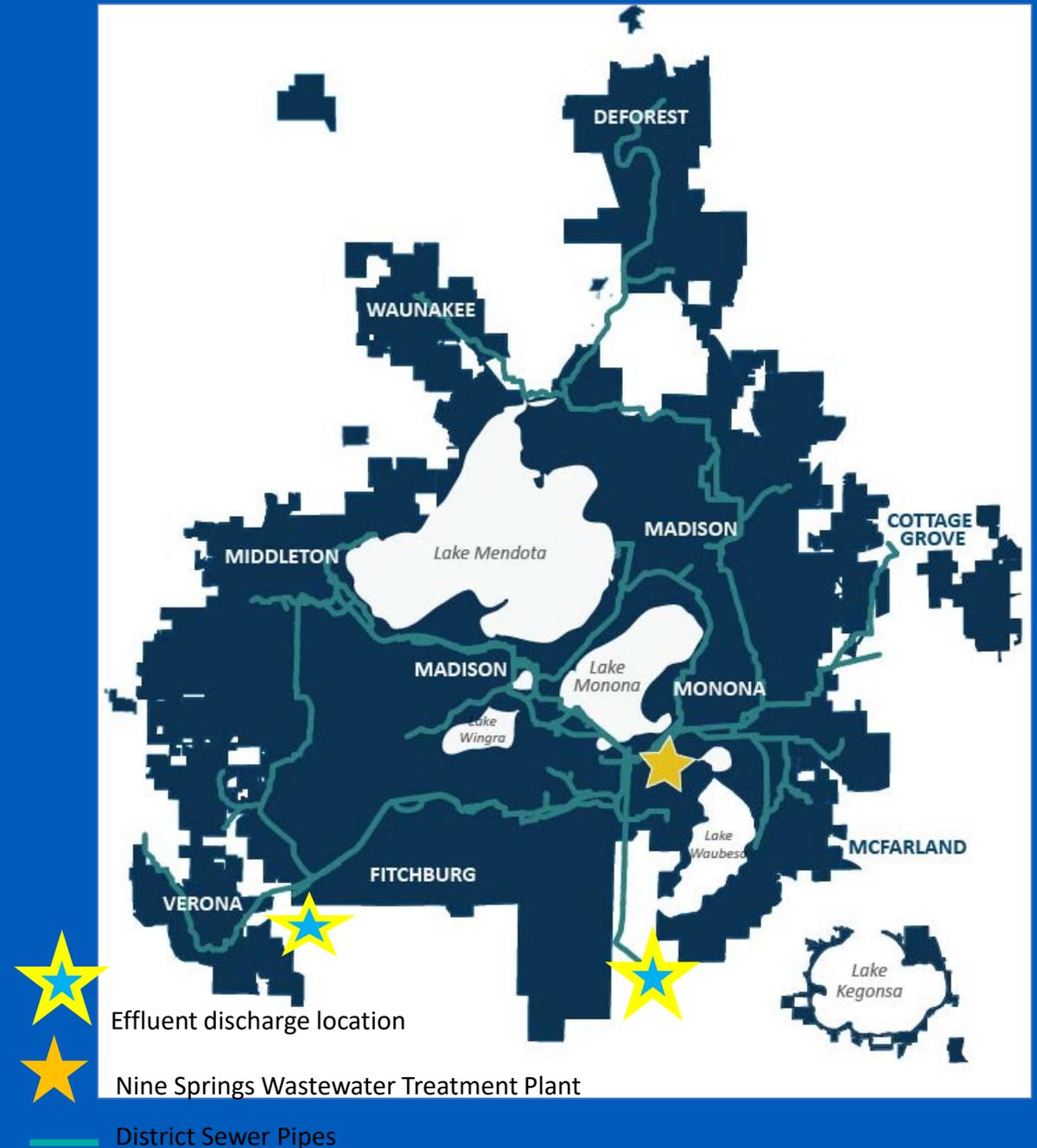
Madison Metropolitan Sewerage District

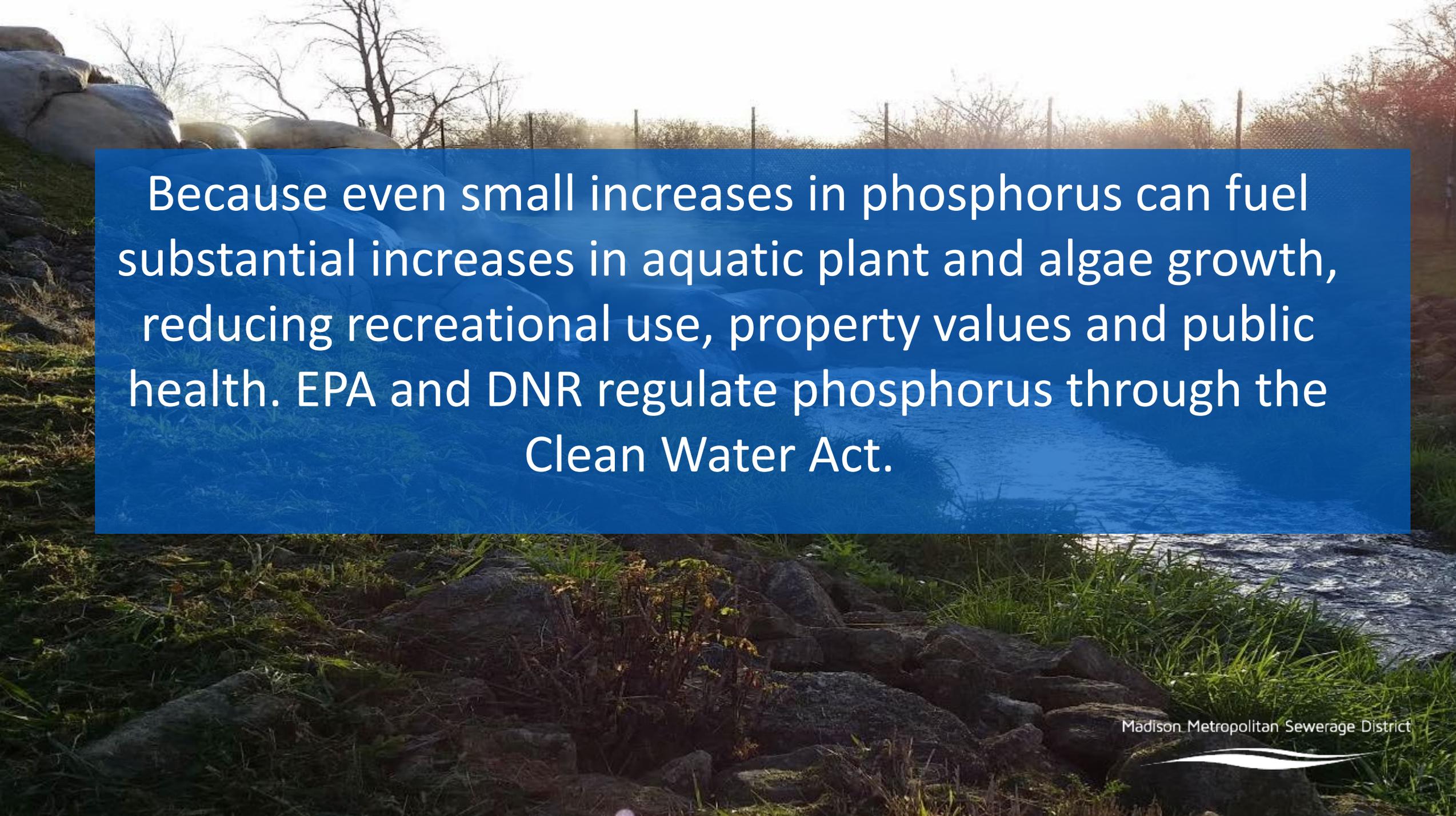


Town of Belleville – March 20, 2023
County of Dane – EANR Committee – March 23, 2023

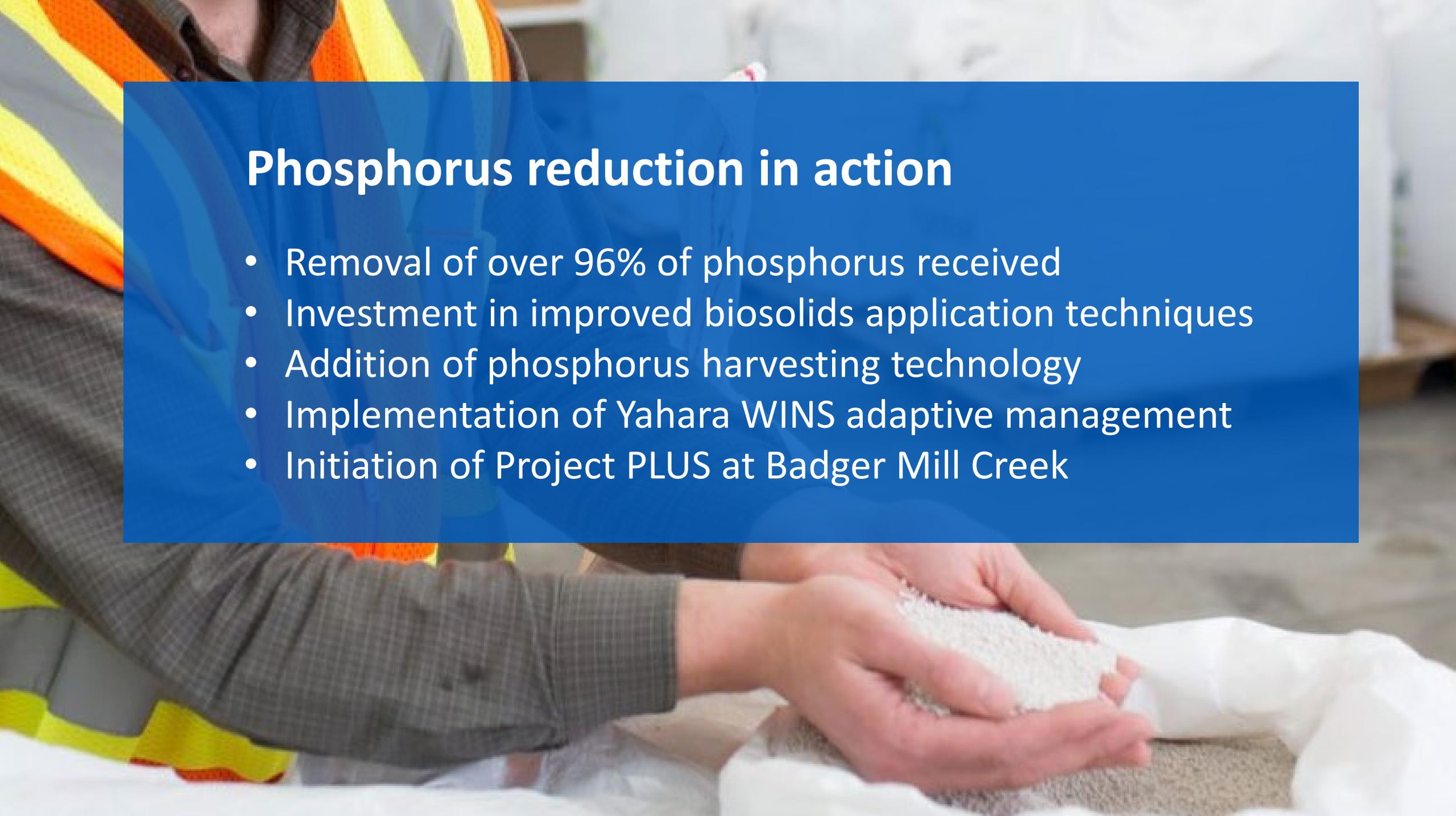
About the District

- Provider for 25 owner communities, ~407,000 individuals and businesses
- Operate 145 miles of pipe
- Collect 36 million gallons daily from sewers and haulers
- Ratepayer funded
- One treatment plant with two effluent discharge locations
- Regulated under the Clean Water Act





Because even small increases in phosphorus can fuel substantial increases in aquatic plant and algae growth, reducing recreational use, property values and public health. EPA and DNR regulate phosphorus through the Clean Water Act.

A person wearing a blue long-sleeved shirt and an orange and yellow safety vest is shown from the chest down. They are holding a handful of small, white, granular material in their hands, positioned over a white bag that is also filled with the same material. The background is slightly blurred, showing what appears to be an industrial or agricultural setting.

Phosphorus reduction in action

- Removal of over 96% of phosphorus received
- Investment in improved biosolids application techniques
- Addition of phosphorus harvesting technology
- Implementation of Yahara WINS adaptive management
- Initiation of Project PLUS at Badger Mill Creek



Project PLUS goals

1. Achieve phosphorus compliance standards
2. Minimize harm to the biology of the stream
3. Maintain fiscal responsibility to ratepayers and owner communities

Preliminary Project PLUS compliance approaches:

- Modify flow
- Water quality trading
- Tertiary treatment



Current work:

- Stream habitat and flow assessments
- Reviewing cost and feasibility considerations of potential treatment options



DNR Compliance Timeline

March 2021
Status
Update

March 2022
Preliminary
Compliance
Alternatives
Plan

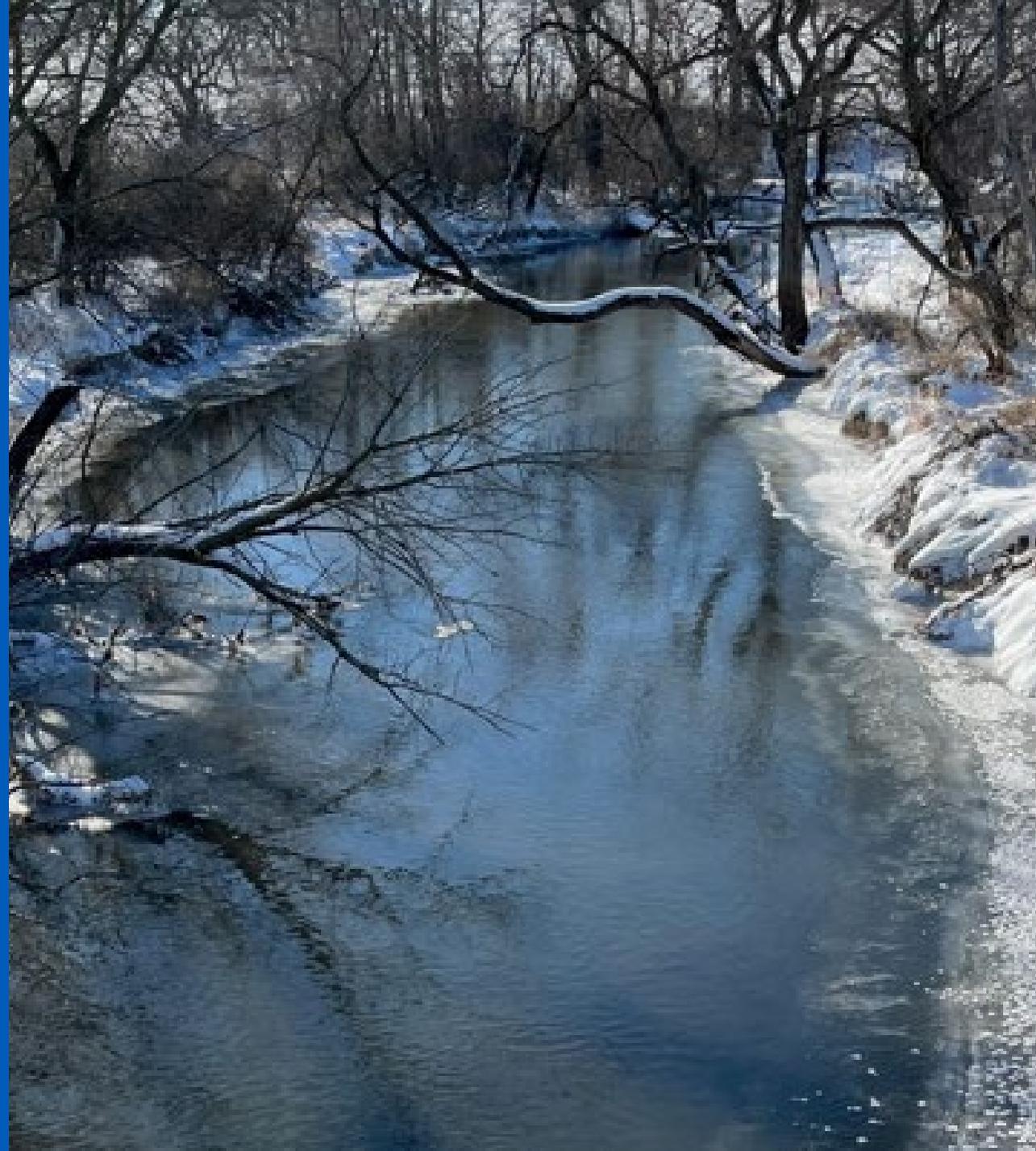
May 2023
Final
Compliance
Alternatives
Plan

Solution Implementation Phase

Sept. 2028
**Achieve
Compliance**

Continued steps to compliance:

- Answer questions, incorporate learnings and refine potential compliance options
- Assess alternatives: multi-factor including environment, social and economic
- Ongoing communication and engagement; will share studies when complete (sometime in April)
- Update interested parties



Upcoming Schedule

Thursday, April 27 Commission Meeting

- *Present recommended final compliance option to Commission*

Monday, May 8 at 4 p.m.

- *Deadline to submit written comments*

Thursday, May 11 Commission Meeting

- *Public hearing*

Thursday, May 25 Commission Meeting

- *Commission make final decision*

End of May

- *Submit Final Compliance Option Report to DNR*



Stay Engaged

Sign up for project updates by scanning the QR code using the camera on your mobile device or visiting our website: www.madsewer.org/bmc-plus

Questions?