

# Public Informational Hearing

## Northeast Lakeshore TMDL

August 2, 2023



# The DNR Office may experience a test of the fire alarm system during today's meeting.

- There is no need to leave the building you are in because of this drill.
- I will pause the meeting and mute the sound to save everyone from hearing the alarm.
- The meeting will resume as soon as the test is over.



# Agenda

- Introductory Remarks
- Presentation covering the NEL TMDL report and modifications
- Commencement of on the record verbal comments  
(Note: written comments carry the same weight)
- Closing Remarks

Both the recorded presentation and slides will be available on the DNR website.

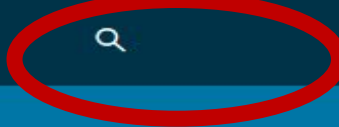
<https://dnr.wi.gov/topic/TMDLs/NElakeshore.html>

or just search “NE Lakeshore TMDL”

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about the Northeast Lakeshore  
TMDL.





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# Public Informational Hearing Introduction

The Department has set at this time, Wednesday August 2, 2023, at 11:00 am for a public informational hearing and to receive verbal comments regarding the “Northeast Lakeshore TMDL: Total Maximum Daily Loads for Total Phosphorus and Total Suspended Solids”– the report version dated July 28, 2023.

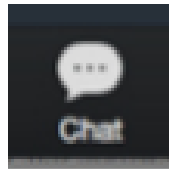
This hearing is being held pursuant to section 283.83 of the Wisconsin Statutes and chapter NR 121 of the Wisconsin Administrative Code. Notice of this hearing was provided through GovDelivery, DNR distribution lists, the DNR website, and posted on DNR’s meeting calendar. This is a non-contested case hearing and as such, persons entering an appearance may make verbal statements, offer evidence, or ask questions concerning the matter being heard. However, cross-examination of anyone making a statement is not allowed, although questions of a clarifying nature will be allowed.

In lieu of or in addition to verbal statements at today's hearing, written comments will be accepted by the Department until close of business (COB) **September 1, 2023**.

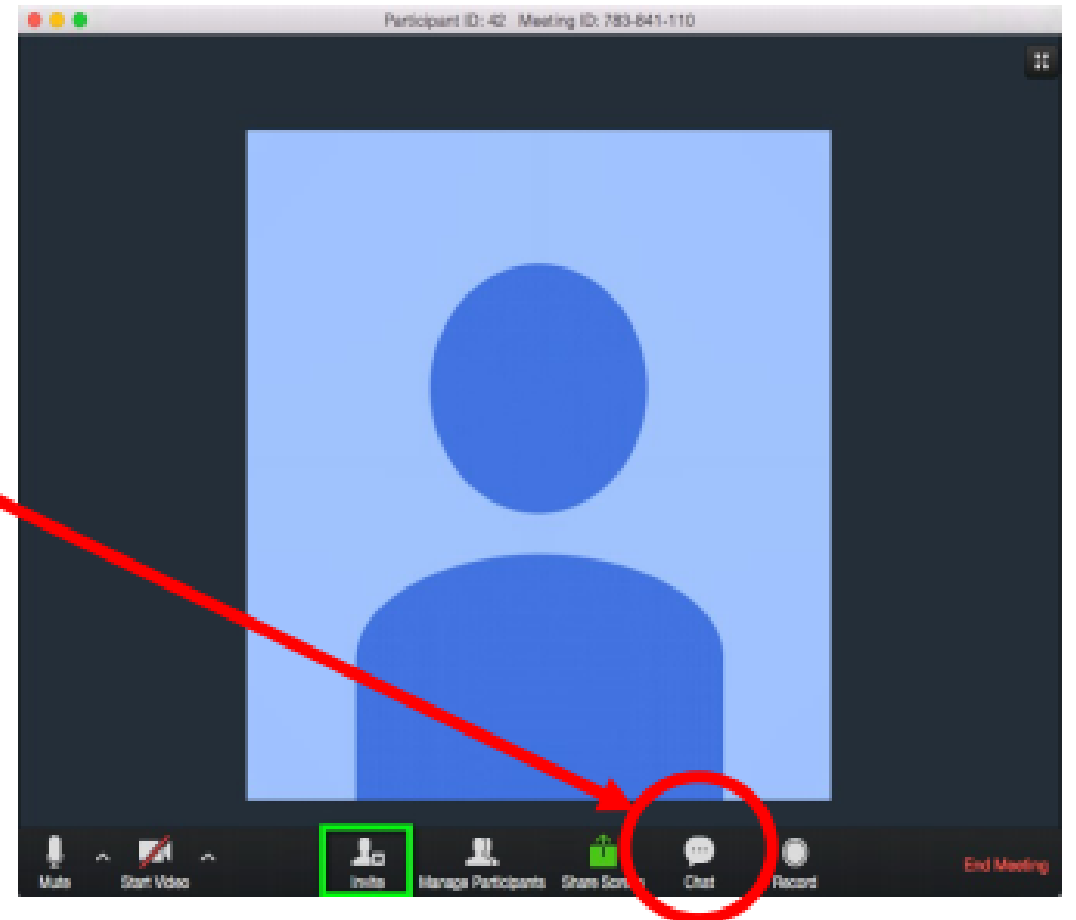


# Zoom

Click **Chat** in the meeting controls.



*NOTE: If don't see controls, tap screen and they will pop up.*



# Public Informational Hearing Comment Period

**Written comments will be accepted through close of business on September 1, 2023.**

Verbal comments, received during the public hearing, and written comments received prior to the close of the comment period will be considered prior to making a final approval and submittal of the TMDL Study to U.S. EPA. Written and verbal comments carry the same weight. A summary with response to comments shall be included in the final TMDL Study report.

Comments can be emailed to [Kevin.Kirsch@Wisconsin.gov](mailto:Kevin.Kirsch@Wisconsin.gov)

Please use the subject line: “NEL TMDL Comments”

Or submitted by mail:

*Wisconsin Department of Natural Resources*

*Attn: Kevin Kirsch*

*P O Box 7921*

*Madison, WI 53707-7921*

# NORTHEAST LAKESHORE TMDL

A FRAMEWORK FOR WATER QUALITY IMPROVEMENT



South Branch of the Manitowoc River

 [Subscribe](#) to receive email updates about the Northeast Lakeshore TMDL.

The DNR, together with many partners throughout the basins, is working to improve the surface water quality of tributaries, streams, rivers and lakes within the Northeast Lakeshore (NEL) TMDL basins. The NEL TMDL is focused on

## Total Maximum Daily Loads (TMDLs)

[Overview](#)

[TMDLs In Development](#)

[Approved TMDLs](#)

[Implementation](#)

[Point Source](#)

[Nonpoint Source](#)

[Map and Projects](#)

### For more information, contact:

**Kim Oldenberg**

Northeast Lakeshore TMDL  
coordinator

Water Quality Program

tel: +1-608-266-7037



## CURRENT COMMENT PERIODS

The public hearing version of the TMDL Study incorporates input and comments received during the previous review periods and the March 2023 listening session and comment period. The public informational hearing will include a presentation outlining the clarifying text added to the TMDL report which discusses climate change considerations, clarifies margin of safety assumptions, discusses dissolved reactive phosphorus, and outlines implementation planning and monitoring considerations.

Written comments will be accepted through September 1, 2023. Verbal comments, received during the public hearing, and written comments received prior to the close of the comment period will be considered prior to making a final approval and submittal of the TMDL Study to U.S. EPA. Written and verbal comments carry the same weight. A summary with response to comments shall be included in the final TMDL Study report.

Written comments can be submitted via e-mail to [Kevin.Kirsch@wisconsin.gov](mailto:Kevin.Kirsch@wisconsin.gov) or by regular mail to:

Wisconsin Department of Natural Resources

Attn: Kevin Kirsch

101 S. Webster St., P.O. Box 7921

Madison, WI 53707-7921

Reasonable accommodation, including the provision of informational material in an alternative format, will be provided for qualified individuals with disabilities upon request.

The following documents have been posted for review and comment. Unless otherwise noted, the documents have been previously posted for review and remain unchanged from the version provided during the March 2023 review period.

## REPORT FOR REVIEW

[Northeast Lakeshore TMDL \(Draft\) for Total Phosphorus and Total Suspended Solids \[PDF\]](#) **(Note: updated document)**

## APPENDICES

[Appendix A: Waterbody Impairments Addressed by the TMDL \[PDF\]](#)

[Appendix B: Subbasin Tables and Water Quality Criteria \[PDF\]](#)

Appendix C: TMDL Subbasin Land Use and Maps:

- [Appendix C: Kewaunee Total Phosphorus \[PDF\]](#)
- [Appendix C: Kewaunee Total Suspended Solids \[PDF\]](#)
- [Appendix C: Manitowoc Total Phosphorus \[PDF\]](#)
- [Appendix C: Manitowoc Total Suspended Solids \[PDF\]](#)
- [Appendix C: Sheboygan Total Phosphorus \[PDF\]](#)
- [Appendix C: Sheboygan Total Suspended Solids \[PDF\]](#)

[Appendix D: SWAT Model Setup, Calibration, and Validation \[PDF\]](#)

[Appendix E: Copy of Agricultural Surveys \[PDF\]](#)

[Appendix F: Agricultural Practice Summary \[PDF\]](#)

[Appendix G: Manure Spreading Report \[PDF\]](#)

[Appendix H: Baseline Load Tables \[PDF\]](#)

[Appendix I: Lake Model Setup and Results \[PDF\]](#)

[Appendix J: Development of Calibration and Validation Datasets \[PDF\]](#)

[Appendix K: Total Phosphorus Allocation Tables \[PDF\]](#) **(Note: updated document)**

[Appendix L: Sediment/TSS Allocation Tables \[PDF\]](#)

[Appendix M: Agricultural Edge-of-Field Targets \[PDF\]](#) **(Note: updated document)**

[Appendix N: Response to Comments \[PDF\]](#) **(Note: new document)**

# Modified and New Documents

## **REPORT FOR REVIEW**

[Northeast Lakeshore TMDL \(Draft\) for Total Phosphorus and Total Suspended Solids \[PDF\]](#) **(Note: updated document)**

## **APPENDICES**

[Appendix K: Total Phosphorus Allocation Tables \[PDF\]](#) **(Note: updated document)**

[Appendix M: Agricultural Edge-of-Field Targets \[PDF\]](#) **(Note: updated document)**

[Appendix N: Response to Comments \[PDF\]](#) **(Note: new document)**

# TMDL Report

- U.S. EPA submitted grammatical edits and suggested text edits.
- Additional section added discussing climate change.
- Additional text added discussing reasonable assurance.
- Additional text added covering implementation planning and ongoing water quality monitoring.
- Additional text added clarifying the margin of safety.

## Northeast Lakeshore TMDL (DRAFT)

Total Maximum Daily Loads for Total Phosphorus and Total Suspended Solids



**Draft**  
7/28/2023

**Including Brown, Calumet, Door, Fond du Lac, Kewaunee, Manitowoc, Ozaukee and Sheboygan Counties, Wisconsin**

**Prepared For:**  
U.S. Environmental  
Protection Agency  
Region 5  
77 W Jackson Blvd.  
Chicago, IL 60604

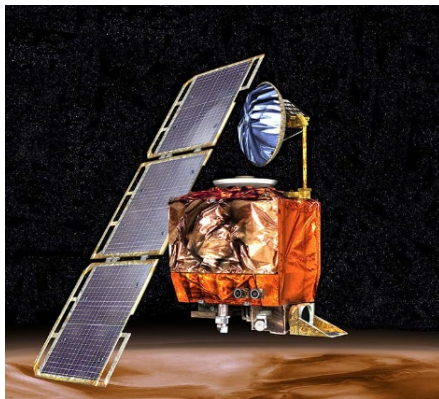


**Prepared By:**  
WI Department of  
Natural Resources  
101 S Webster St  
PO Box 7921  
Madison, WI 53707



# Appendix K: Allocation Tables For TP

- Conducted a review of all allocations and calculations.
- Found a unit conversion for Bemis Plant D and Cedar Valley Cheese. Allocations were labeled as pounds/year but were in kg/yr.
- Allocations for these facilities increased by 2.2046.



TIMES SCIENCE WRITER

NASA lost its \$125-million Mars Climate Orbiter because spacecraft engineers failed to convert from English to metric measurements when exchanging vital data before the craft was launched, space agency officials said Thursday.

# Appendix M

- Updated edge-of-field targets to reflect SnapPlus model version 20.
- Added text discussing total phosphorus and dissolved reactive phosphorus and selection of management practices.
- Added text covering water quality trading.

Table 1 Kewaunee region total phosphorus edge-of-field targets summary table (blue)

TMDL Subbasin	Baseline TP Loss (lb/ac/yr)	TMDL % Reduction (TP)	Target TP Load (lb/ac/yr)
K1	2.4	0.0%	2.4
K2	2.1	15.5%	1.8
K3	2.1	27.8%	1.5
K4	2.3	41.8%	1.3
K5	3.4	51.5%	1.6
K6	2.9	56.1%	1.3
K7	2.8	53.7%	1.3

# Appendix N

- Summary of comments from March 2023 comment period.
  - 31 comments accompanied by 24 references and citations were jointly submitted by the Environmental Law Policy Center (ELPC), Alliance for Great Lakes (AGL), and Midwest Environmental Advocates (MEA).
  - U.S. EPA submitted nine edits and clarifications.
- Appendix N is 44 pages and includes the original comment and a response. Edits to the TMDL report also address specific comments.

# Next Steps in the TMDL Process:

- DNR staff will review and respond to comments received during the public informational hearing comment period.
- A copy of the comments received (Appendix O) and responses (Appendix P) will be created and included in the final TMDL package.
- If significant changes to the TMDL are made, the TMDL will go through this process again. However, if no significant changes are made, the TMDL will be submitted to U.S. EPA for their approval.

# Next Steps in the TMDL Process:

- DNR works closely with U.S. EPA throughout the development process. Once submitted to U.S. EPA, they have 30-days to review and approve the TMDL.
- With U.S. EPA's approval, per 40 CFR 130.6 , the TMDL is considered final and automatically updated to the Areawide Water Quality Management Plan pursuant to ch. NR 121, Wis. Adm. Code.
- Once the TMDL is approved, all issuances and reissuance of WPDES permits for point sources in the TMDL study area need to be consistent with the wasteload allocations contained in the TMDL.



# Verbal Statements:

- If you intend to make a verbal statement, please indicate in the chat feature.
- I will call on those who have indicated that they would like to make a verbal statement for the record. Please limit your remarks to issues regarding the TMDL.
- I reserve the right to limit the time of statements to give everyone an opportunity to speak. After I have called on those who have indicated on their intention to make a verbal statement, I will ask if there is anyone else who would like to make a statement.



2-3  
minutes

# NEL TMDL Verbal Comment Period

**Please Utilize the chat feature to indicate  
if you wish to offer verbal comments.**

# Conclusion of Verbal Statements:

- Is there anyone else who would like to make a verbal statement? Please indicate by using the chat feature and you will be unmuted and called on.
- At this time, if there is nothing further, I would like to thank you for your attendance. This hearing is now closed, but the record will remain open until close of business **September 1, 2023**, for receipt of written comments.

# For More Information and to Access the Report

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South Branch of the Manitowoc River

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