MINNESOTA POLLUTION CONTROL AGENCY

VLAWMO MS4/TMDL Discussion

Overview

- New requirements in the MS4 permit for Minimum Control Measures (MCMs) 1 and 2 and TMDLs
- Resources
- Estimated timeline for the new permit



For cities and townships:

At least once a year, distribute educational materials or equivalent outreach to residents, businesses, commercial facilities, and institutions on:

- Impacts of deicing salt on receiving waters
- Ways to reduce deicing salt use
- Proper storage of salt or other deicing materials



For cities and townships:

At least once a year, distribute educational materials or equivalent outreach focused on:

- Impacts of pet waste on receiving waters
- Proper management of pet waste
- Any existing regulatory mechanism(s) for pet waste

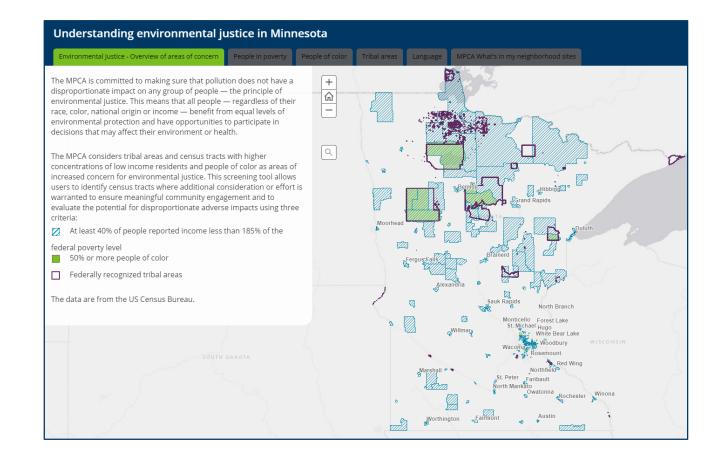


Distribute educational materials or outreach focused on at least <u>two</u> other stormwater-related issues of high priority.





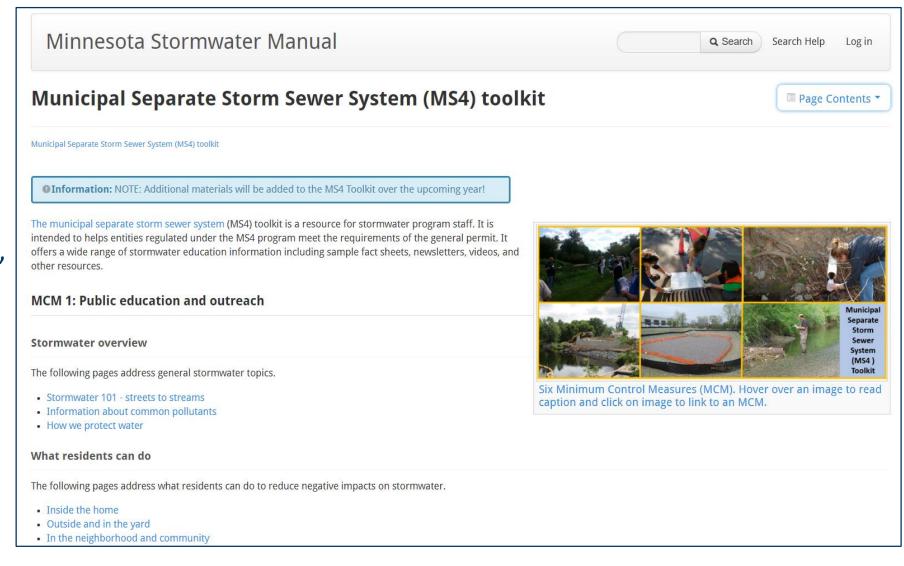
- Consider how to engage with low-income residents, people of color, and non-native English speaking residents
- See "Areas of environmental justice concern" link on www.pca.state.mn.us/ej



The MS4 Toolkit

Educational materials and training resources you may use.

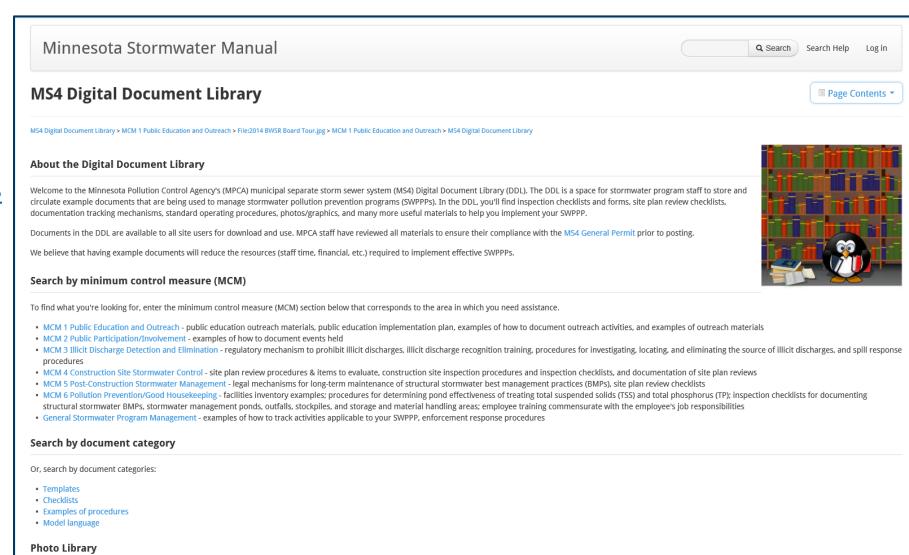
Go to stormwater.pca.state.mn.us and search for "MS4 toolkit"



The MS4 Digital Document Library

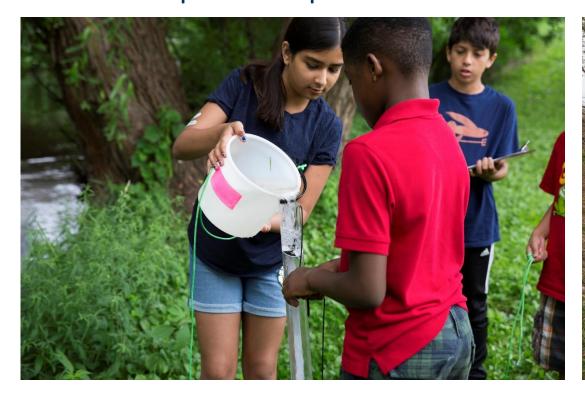
Examples documents you may use.

Go to stormwater.pca.state.mn.us and search for "MS4 DDL"



MCM 2: Public Participation/Involvement

• Each year, provide at least one public involvement activity that includes a pollution prevention or water quality theme



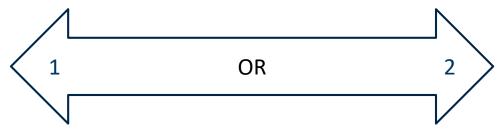


Total Maximum Daily Load (TMDL) Requirements

If you have any applicable waste load allocations (WLAs) for dissolved oxygen or oxygen demand, nitrate, total suspended solids (TSS), or total phosphorus (TP)

When you fill out your permit application, you will have <u>two</u> options

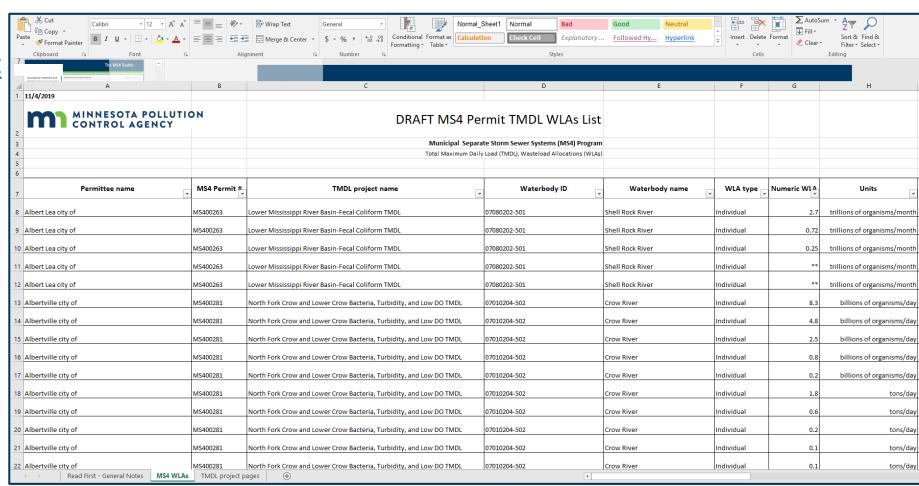
Provide documentation demonstrating you are meeting your WLAs



Submit a compliance schedule with BMPs you will implement over the permit term

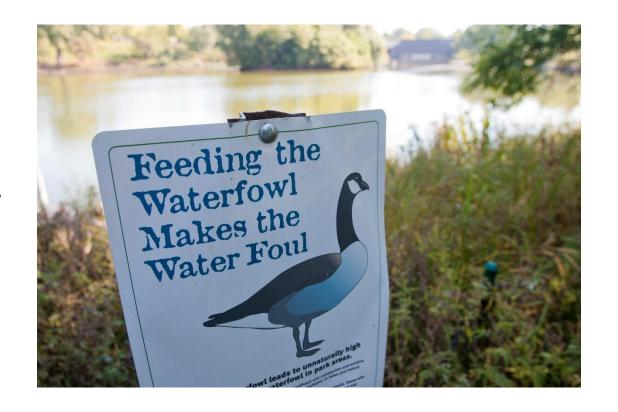
Draft List of WLAs

Available at pca.state.mn.us/ms4permit



- Performance-based approach for:
 - Bacteria
 - Chloride
 - Temperature
- Permittees who have an applicable WLA for these pollutants will not need to complete a compliance schedule.

- If you have an applicable WLA for bacteria:
 - Maintain a written or mapped inventory of potential areas and sources of bacteria (e.g., dense populations of waterfowl or other bird, dog parks).
 - Maintain a written plan to address the areas and sources identified in the inventory.



- If you have an applicable WLA for chloride:
 - Document the amount of deicer applied each winter maintenance season
 - Each year conduct an assessment of your winter maintenance operations to reduce the amount of deicing salt applied and determine opportunities to improve BMPs
 - May use the MPCA's Smart Salting Assessment Tool to meet this requirement. Available at: smartsaltingtool.com



Photo by David R. Gonzalez of the Minnesota Department of Transportation

- If you have an applicable WLA for temperature:
 - Maintain a written plan that identifies specific activities the permittee will implement to reduce thermal loading during the permit term



Photo courtesy of U.S. Fish and Wildlife Service, Midwest Region

TMDL Guidance

Go to stormwater.pca.state.mn.us and search for "TMDLs"

Minnesota Stormwater Manual Q Search Search Help Log in Total Maximum Daily Loads (TMDLs)

File:2014 BWSR Board Tour.jpg > MCM 1 Public Education and Outreach > MS4 Digital Document Library > Special:Search > Total Maximum Daily Loads (TMDLs)

Total Maximum Daily Loads (TMDLs) are EPA approved amounts of pollutant loading that can occur and have a water body meet water quality standards. This page is collection of links and resources to better understand, and meet, TMDL requirements.

TMDL MS4 permit guidance

- Guidance for meeting chloride TMDL MS4 permit requirements
- Guidance for meeting bacteria TMDL MS4 permit requirements
- Guidance for meeting dissolved oxygen or oxygen demand TMDL MS4 permit requirements
- Guidance for meeting temperature TMDL MS4 permit requirements
- Guidance for categorical TMDLs
- List of Approved TMDLs with MS4 WLAs (updated November 2019)
- · Forms, guidance, and resources for completing the TMDL annual report form
- Baseline year
- · Summary of TMDL requirements in stormwater permits
- · Interpreting wasteload allocations based on flow/load duration curves

TMDL toolkit for MS4 permit compliance

- · Overview of models used to meet MS4 TMDL permit requirements
- P8
- Recommendations and guidance for utilizing P8 to meet TMDL permit requirements
- · Case study for using P8 to meet TMDL permit requirements

WINSLAMN

- Recommendations and guidance for utilizing WINSLAMM to meet TMDL permit requirements
- Case study for using WINSLAMM to meet TMDL permit requirements

MIDS (Minimal Impact Design Standards calculator)

- · Recommendations and guidance for utilizing the MIDS calculator to meet TMDL permit requirements
- MIDS calculator
- Case study for using the MIDS calculator to meet TMDL permit requirements

MPCA Simple Estimator

- · Recommendations and guidance for utilizing the MPCA Simple Estimator to meet TMDL permit requirements
- · Guidance and examples for using the MPCA Estimator
- · Case study for using the MPCA Simple Estimator to meet TMDL permit requirements



Confluence of the St. Croix and Mississippi rivers. Note the St. Croix River is not impaired for sediment, while the Mississippi River is impaired.



Other Guidance Materials

- Examples and guidance materials to help meet new permit requirements:
 - Go to <u>stormwater.pca.state.mn.us</u> and search for "new permit requirements"
- Draft permit language and other helpful documents available at www.pca.state.mn.us/ms4permit

Minimum Control Measure (MCM) 3 - Illicit discharge detection and elimination	
Permit item 18.5: For cities, townships, and counties, the permittee's regulatory mechanism(s) must require owners or custodians of pets to remove and properly dispose of feces on permittee owned/operated land areas. [Minn. R. 7090]	Materials under consideration
Permit item 18.6: For cities and townships, the permittee's regulatory mechanism(s) must require proper salt storage at commercial, institutional, and non-NPDES permitted industrial facilities. At a minimum, the regulatory mechanism(s) must require the following:	Chloride Reduction Model Ordinance
a. designated salt storage areas must be covered or indoors; b. designated salt storage areas must be located on an impervious surface; and c. implementation of practices to reduce exposure when transferring material in designated salt storage areas (e.g., sweeping, diversions, and/or containment). [Minn. R. 7090]	
Permit item 18.8	DDL: MCM 3 Illicit Discharge Detection and
a. training all field staff in illicit discharge recognition (including conditions which could cause illicit discharges), and reporting illicit discharges for further investigation. Field staff includes, but is not limited to, police, fire department, public works, and parks staff. Each calendar year following the initial training, the permittee must provide a refresher-training to all field staff on illicit discharge recognition and reporting. Training for this specific requirement may include, but is not limited to, videos, in-person presentations, webinars, and/or training documents; and b. ensure that individuals receive training commensurate with their responsibilities as they relate to the permittee's IDDE program. Individuals includes, but is not limited to, individuals responsible for investigating, locating, eliminating illicit discharges, and/or enforcement. The permittee must ensure that previously trained individuals attend a refresher-training every three (3) calendar years following the initial training. [Minn. R. 7090]	Elimination - see Training tools section
	Materials under consideration (possible video)
	Materials under consideration (PowerPoint materials)
Permit item 18.9: The permittee must maintain a written or mapped inventory of priority areas the permittee identifies as having a higher likelihood for illicit discharges. At a minimum, the inventory must include the following:	Materials under consideration
a. non-NPDES permitted business/industrial activities with storage of large quantities of significant materials that could result in an illicit discharge; and b. areas where illicit discharges have been identified in the past and continues to pose a risk. [Minn. R. 7090]	
Permit item 18.10: The permittee must conduct illicit discharge inspections at least once each calendar year in areas identified in item 18.9. [Minn. R. 7090]	DDL: MCM 3 Illicit Discharge Detection and Elimination - see Training tools and Documentation & tracking templates sections

Estimated Timeline

Late 2020

January 11, 2020

Public comment period ends

Summer 2020

Final permit issued

MPCA staff review applications for completeness. Complete applications go on public notice for 30 days















January -**Summer** 2020

MPCA reviews comments and revises permit

Summer - Fall 2020

Permittees have 150 days to submit a complete Part 2 permit application (SWPPP document).

Late 2020 – Spring 2021

Coverage is issued after permittee addresses any public comments. Permittees have 12 months to meet new permit requirements.

Contact Information

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- Full MPCA MS4 contact list available at: www.pca.state.mn.us/ms4