

Southeast Region Municipal Separate Storm Sewer System (MS4) Annual Reporting

The DNR presents a summary of the 2018 MS4 annual reports submitted by the MS4 permittees in the southeast region.

**15th Annual Clean Rivers, Clean Lake Conference
November 14, 2019**

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Municipal & Technology
Wisconsin DNR



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- Order eagle plates
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- Popular links**
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- Top news**
- Natural Resources Board to meet January 27 in Madison
 - Volunteers needed for Macfadden Center's Maple Education Program
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Cleanup and restoration of our rivers can be an important first step in economic reinvigoration. Learn how federal, state and local partners are working together to bring life back to Menominee Harbor. More details on the Menominee Harbor can be found at [Menominee River projects](#).

DOWNLOAD TODAY! | NOMINATE A VOLUNTEER | SNOWMOBILE SAFETY | GOT EAGLE EYES? | PHOTO CONTEST

- DOWNLOAD TODAY!** The Wisconsin State Parks and Forests guide is FREE to download and will enhance any of your state park or forest visit.
- NOMINATE A VOLUNTEER** Nominate a volunteer safety instructor who has significantly advanced the cause of safe hunting. Deadline is February 12.
- SNOWMOBILE SAFETY** Make your ride on Wisconsin's snowmobile trails a fun and safe one. Take a safety class! Online option for those 18 and older.
- GOT EAGLE EYES?** Get great views and learn about these majestic birds at eagle watching events this winter.
- PHOTO CONTEST** The Great Lakes photo contest deadline is Feb 1. Submit your photos of L, Michigan and L Superior. (Image © Chris Gaziano)

HOTLINES 1-800-111-WUNIK or 1-800-847-2387 - Confidentially report suspected wildlife, recreational, and environmental violations. 1-888-238-7483 - General questions seven days a week, 7 a.m. to 10 p.m. | 24-Hour [Spill Emergency](#) Hotline: 1-800-043-0003

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Wisconsin Department of Natural Resources | 101 W. Webster Street, PO Box 7821 | Madison, Wisconsin 53707-7821
Call 1-888-858-7483 from 7 a.m. - 10 p.m.

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Sign up for GovDelivery!

Municipal Storm Water Updates

2019 - Fall Edition

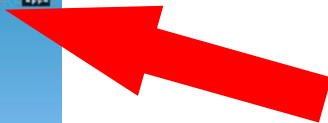
Welcome to the DNR Municipal Storm Water quarterly newsletter, where we plan to keep you up to date on the municipal separate storm sewer system (MS4) program and share our collective accomplishments.

Reminders

MS4 general permit compliance

Permittees are reminded to update their storm water management programs and submit to the DNR no later than **March 31, 2021!** That is a year and a half away!

Here's what you can do:

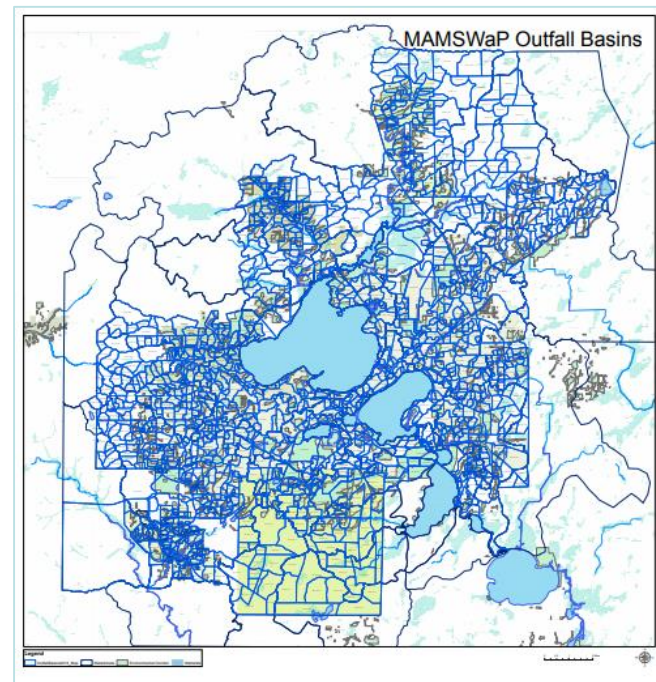


Overview

- MS4 Permit Program
- Southeast Region Summary of 2018 Annual Reports
 - How does the region compare to the state?



Diagram courtesy of City of Fairchild, OH



MAMSWaP Outfall Basin Map, submitted with 2018 annual report.

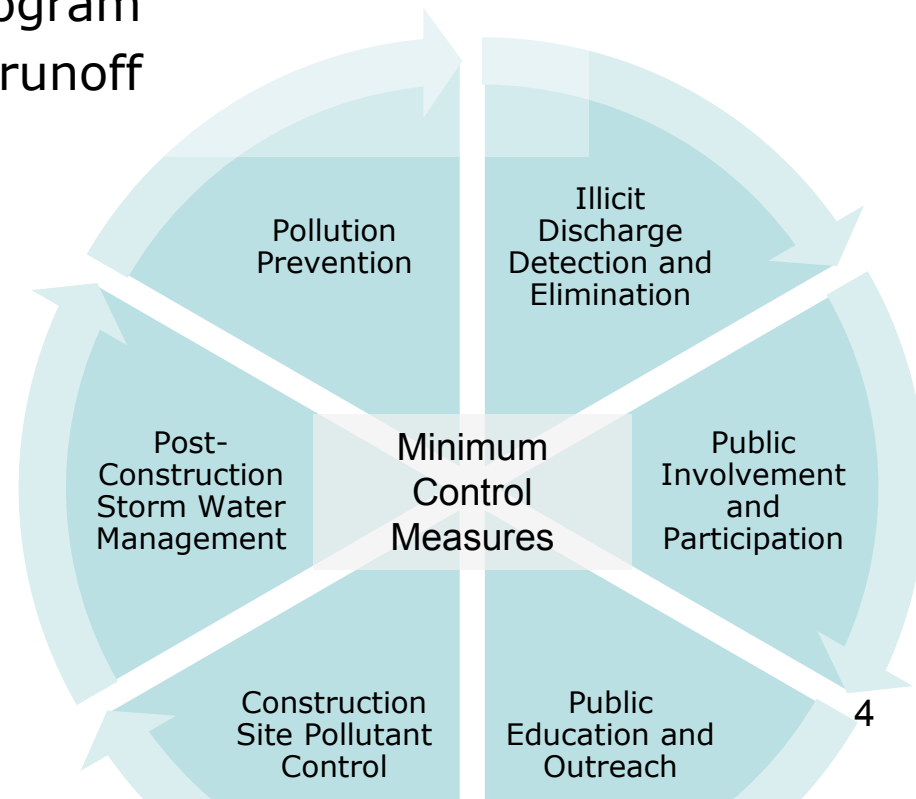
MS4 Program

Municipal Separate Storm Sewer System = MS4

- Chs. NR 216 and NR 151, Wis. Adm. Code
- Cities, villages, towns, counties, non-traditional
- Storm water management program
- Reduce polluted storm water runoff



DNR: Storm sewer outfall discharging sediment to a stream.



MS4 General Permit Revisions

EPA eReporting (eff. Dec. 2015)

Background

- 1. Requires electronic data collection**
- 2. Electronic reporting and sharing to EPA**
- 3. Incorporate electronic reporting requirements into permits**

NPDES eReporting



CWA-NPDES
electronic reporting

USEPA

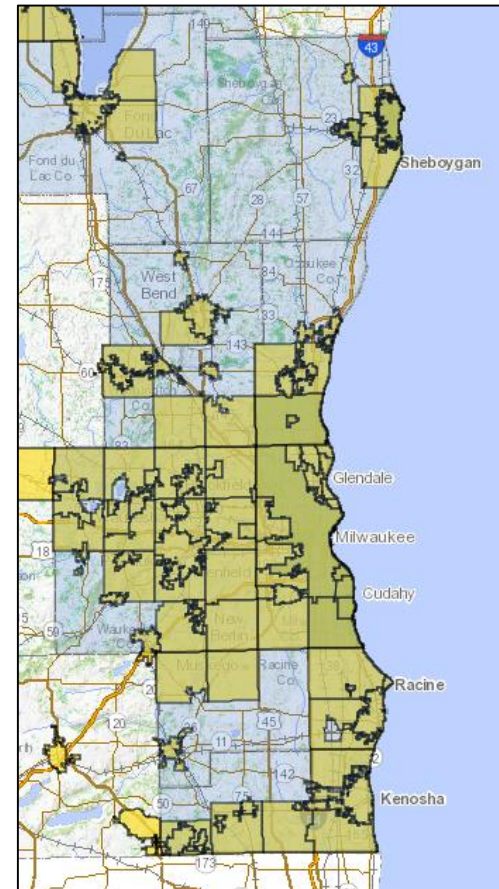


USEPA

- Notice of Intents
- Annual Reporting
- Inspections
- States begin data sharing by ~~December 21, 2020~~ 2023

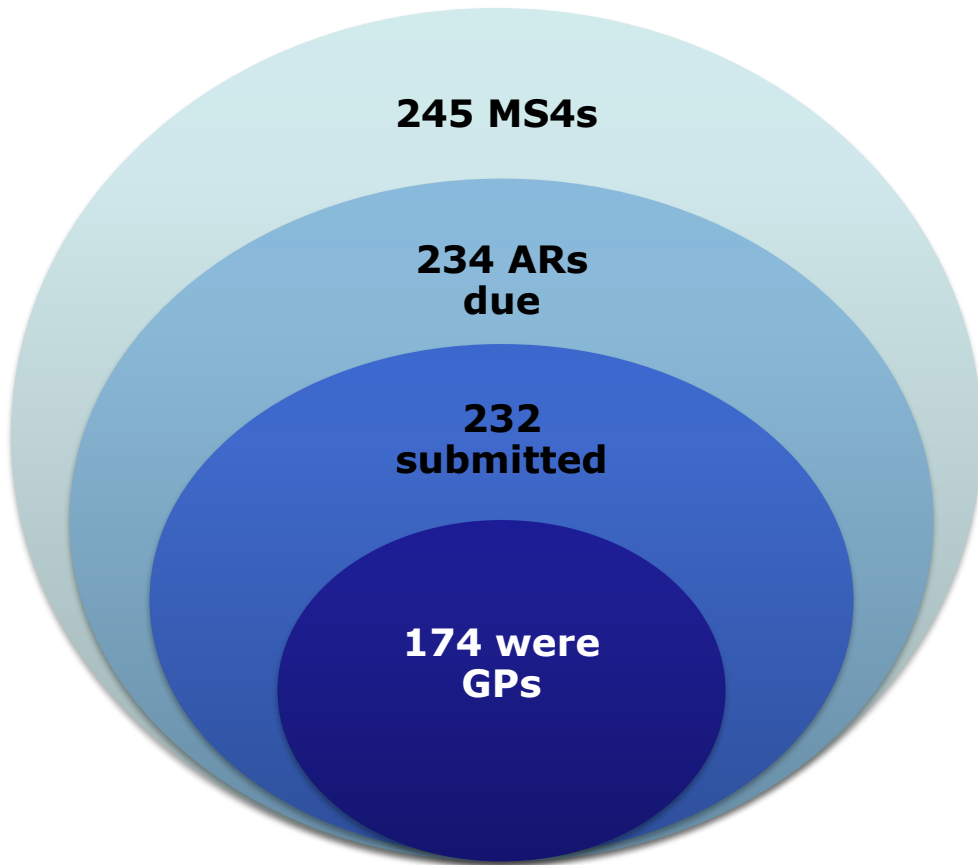
MS4 Program

- State: 245 permittees
- SER: 103 total permittees
 - 54 general permittees
 - 49 individual/group permittees
 - Menomonee River Watershed-Based MS4 Permit (11)
 - Mequon-Thiensville group MS4 Permit (2)
 - North Shore Group MS4 Permit (7)
 - Root River Group MS4 Permit (7)
 - Upper Fox River Watershed Group MS4 Permit (8)
 - Individual (14)



WDNR: Permitted municipalities in SER.

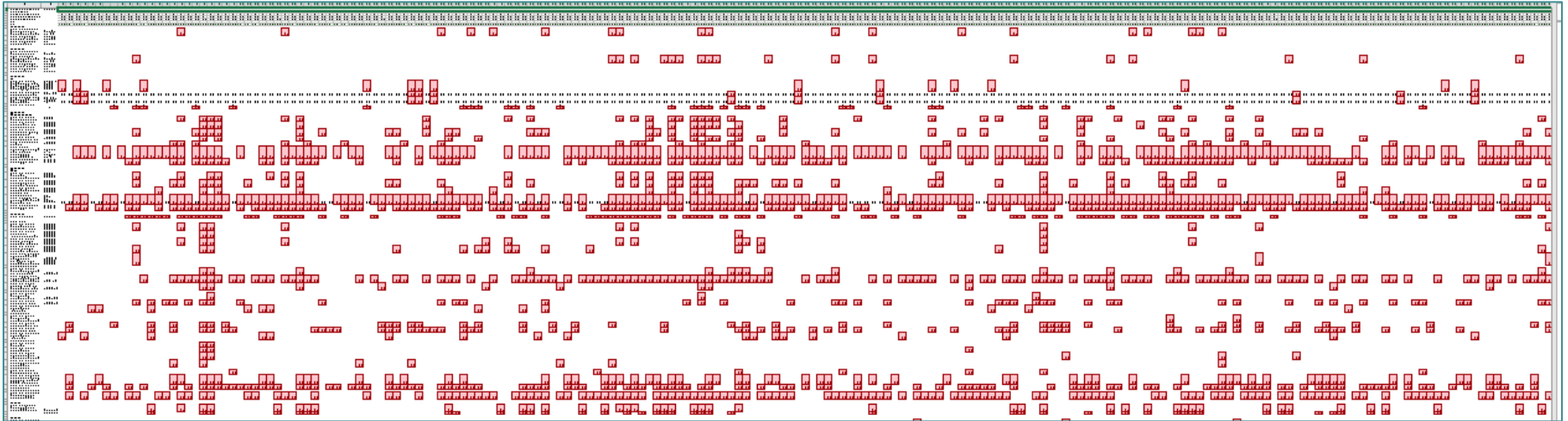
SER Summary of MS4 Annual Reports



98 SER Annual Reports

SER Summary of MS4 Annual Reports

DNR 'Red Flag' Analysis



Southeast Region

| | |
|-----------------------|----|
| Min. Flags per MS4 | 2 |
| Max Flags per MS4 | 25 |
| Average Flags per MS4 | 8 |

SER Summary of MS4 Annual Reports Indicating “Unsure” State vs. SER

| Rank | Total # Reported Statewide | % Reported Statewide | Total # Reported SER | % SER/State | Annual Report Question |
|------|----------------------------|----------------------|----------------------|-------------|---|
| 1 | 75 | 32% | 0 | 0% | 6o - How many materials collected (catch basin) |
| 2 | 52 | 22% | 0 | 0% | 5b - How many privately owned storm water facility |
| 3 | 52 | 22% | 48 | 92% | 2a - Water quality improvement known |
| 4 | 51 | 22% | 0 | 0% | 6j - How many materials collected (street sweeping) |
| 5 | 49 | 21% | 47 | 96% | 2b - Water quality degradation known |
| 6 | 47 | 20% | 0 | 0% | 4d - How many erosion control inspections did the municipality complete in the reporting year? |
| 7 | 46 | 20% | 0 | 0% | 6n - How many cleaned (catch basins) |
| 8 | 40 | 17% | 0 | 0% | 4a - How many total construction sites were active at any point |
| 9 | 26 | 11% | 26 | 100% | 6aa – Has internal staff training been held for municipal personnel implementing pollution prevention requirements? |
| 10 | 25 | 11% | 0 | 0% | 5a - How many new construction sites with new structural storm water Unsure management practices have received local approvals? |

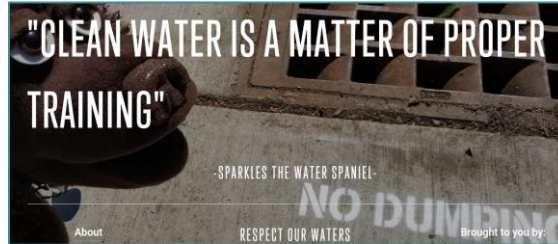
SER Summary of MS4 Annual Reports Indicating "Unsure"

SER Overall Rank

| SER Rank | Total # Reported SER | % (# Reported SER/98 SER Total Permittes) | % (# Reported SER/ # Reported State) | Annual Report Question |
|----------|----------------------|---|--------------------------------------|---|
| 1 | 48 | 49% | 92% | 2a - Water quality improvement known? |
| 2 | 47 | 48% | 96% | 2b - Water quality degradation known? |
| 3 | 26 | 27% | 100% | 6aa – Has internal staff training been held for municipal personnel implementing pollution prevention requirements? |
| 4 | 24 | 24% | 100% | 4c - Do the above numbers include sites <1 acre? (yes, no, unsure) |
| 5 | 19 | 19% | 100% | 6z – Did municipal personnel attend salt reduction strategy training? |
| 6 | 14 | 14% | 100% | 6g – Have amendments to the SWPPPs been made? |
| 7 | 12 | 12% | 92% | 6y – Was salt applying machinery calibrated? |

SER Summary of MS4 Annual Reports Public Education and Outreach

Topics



Respect Our Waters campaign.

| | SER Ave | State Ave |
|----------------|---------|-----------|
| County | 4 | 7 |
| City | 5 | 7 |
| Village | 5 | 7 |
| Towns | 6 | 6 |
| Nontrad | 5 | 6 |





SER Summary of MS4 Annual Reports

Public Education and Outreach

Delivery Mechanisms

| SER Mechanisms | County | City | Village | Town | Non-traditional | SER - All |
|-------------------------|--------|------|---------|------|-----------------|--------------------|
| Ave Active | 16 | 9 | 11 | 7 | 6 | 10 |
| Ave Passive | 10 | 6 | 7 | 5 | 6 | 6 |
| State Mechanisms | | | | | | State - All |
| Ave Active | 10 | 11 | 9 | 7 | 5 | 8 |
| Ave Passive | 8 | 7 | 7 | 5 | 4 | 6 |

SER compared to the state

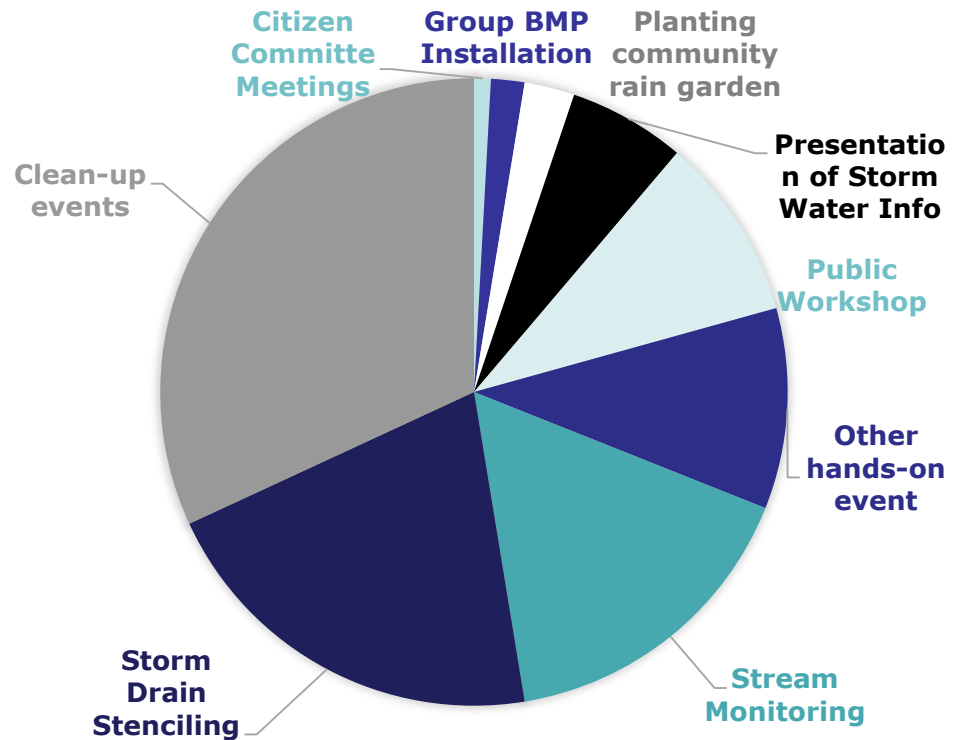
| | |
|--------|-------|
| Higher | Lower |
|--------|-------|

SER Summary of MS4 Annual Reports

Public Involvement and Participation

Volunteer Activities

- **Most common:** Clean-up events, storm drain stenciling, and stream monitoring
- Not conducting volunteer activities
 - 29% SER all
 - 22% SER GP

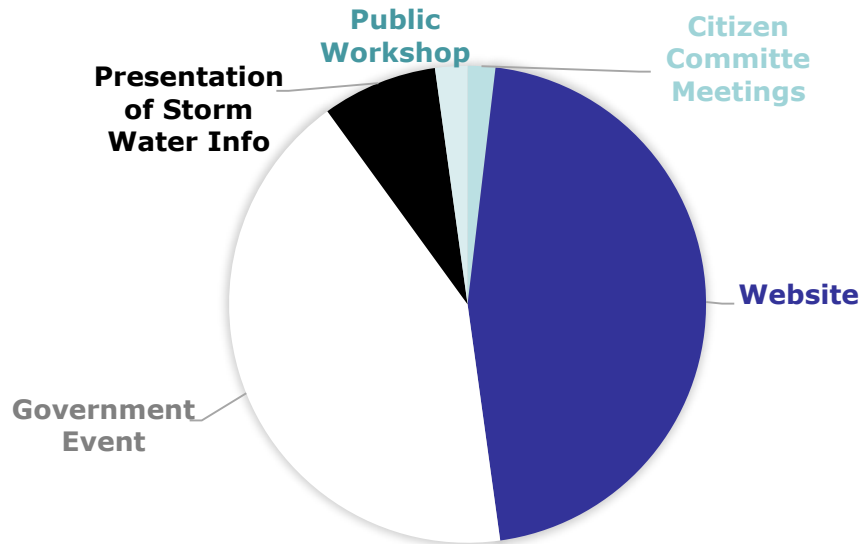


SER Summary of MS4 Annual Reports Public Involvement and Participation Permit Activities

No public involvement on:

- 11% – annual report
- 20% – storm water management program

Delivery Mechanisms





SER Summary of MS4 Annual Reports Illicit Discharge Detection and Elimination Field Screening, Source Investigation and Elimination

- **16%** confirmed at least 1 illicit discharge
 - Of all illicit discharges confirmed in state, 57% were SER permittees
- Of those confirmed, **50%** permittees eliminated all their illicit discharges, **38%** eliminated some, **12%** eliminated none
- 63 total illicit discharges, 43 (**68%**) eliminated
 - SER had 26% of the state's confirmed illicit discharges
 - SER eliminated 1/3 of the state's illicit discharges

SER Summary of MS4 Annual Reports

Construction/Post-Construction

Construction Site Pollutant Control

- Low - inspection frequency

Post-Construction (i.e., structural storm water management facilities)

- Unsures - amount of new facilities receiving local approval
- Unsures - inspections on privately owned facilities



DNR Photo. Bioretention for parking lot runoff.

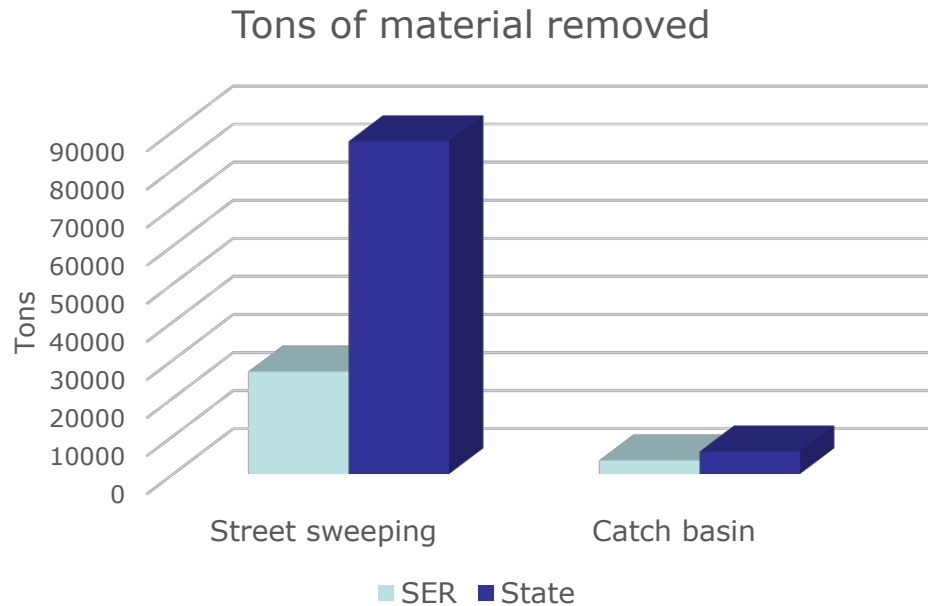


DNR Photo. Infiltration and bioretention basin.

SER Summary of MS4 Annual Reports

Pollution Prevention

Collection Services & Storm Sewer System Maintenance Activities



Street sweeping

- State: 87396 tons
- SER: 26880 (31% of state)

Catch basin sumps

- State: 5916 tons
- SER: 3568 (60% of state)



SER Summary of MS4 Annual Reports Pollution Prevention

Collection Services & Storm Sewer System Maintenance Activities

Leaf management

- **75 (77%)** have leaf collection programs
 - **51 (68%)** of those with programs, conduct curbside leaf collection
 - **50 (98%)** of those who conduct curbside leaf collection, notify homeowners about pickup
 - **18 (36%)** of those who notify, direct to pile leaves on terrace
 - **22 (44%)** of those who notify, direct to pile leaves in street
 - **15 (30%)** of those who notify, direct to bag leaves on terrace
 - **38 (76%)** of those who conduct curbside leaf collection, follow leaf pick-up with street sweeping



SER Summary of MS4 Annual Reports

Pollution Prevention

Winter Road Management

- **46%** sent staff to salt reduction training
(state, 40%)
 - 4% “unsure”
- **70%** calibrated salt applying machinery
(state, 67%)

Additional resources:

dnr.wi.gov/topic/stormwater/learn_more/salt.html

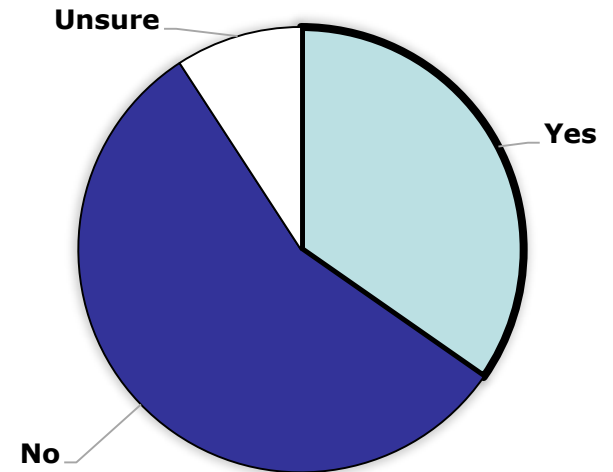
SER Summary of MS4 Annual Reports

Pollution Prevention

Internal Training and Education

- Education of appropriate municipal and other personnel involved in implementation this program
- **35%** - did conduct
- **56%** - did not conduct
- **9%** - unsure

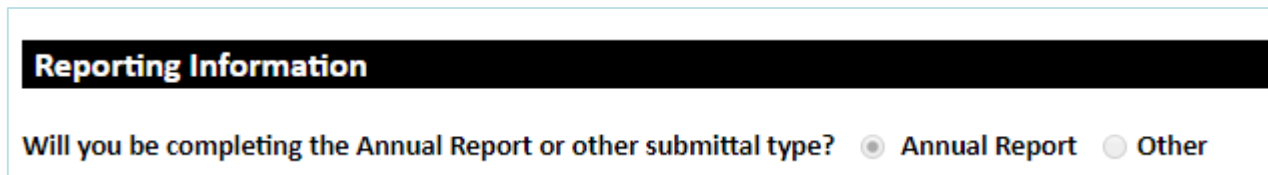
Was Internal Education Conducted?





MS4 eReporting System Changes for 2019 Reports

- Minor updates
 - Home page revision



Reporting Information

Will you be completing the Annual Report or other submittal type? Annual Report Other

- TMDL question added for Appendix A permittees
- Future (~~2020 Annual Report due March 2021-2023~~)
 - EPA continues to define reporting elements



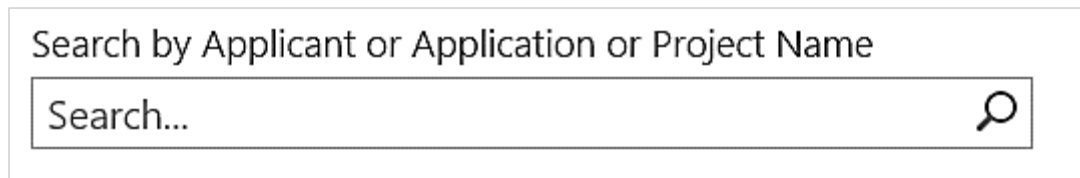
MS4 eReporting System

How to view submitted reports

1. dnr.wi.gov Search “water permit”
2. Click “Track” button



3. Filter Results or search keywords “MS4” or “SW-MS” or “municipality name”

A screenshot of a search input field. The text "Search by Applicant or Application or Project Name" is displayed above the input box. The input box itself contains the placeholder text "Search..." and a magnifying glass icon on the right side. The entire search area is enclosed in a light gray rectangular box with a thin black border.



MS4 eReporting System

Municipal storm water permit eReporting web page:

dnr.wi.gov/topic/stormwater/municipal/eReporting.html

User Support Tools

- MS4 eReporting 'How To' Webinar
- Step-by-Step Help Document
- Delegated Signature Authority (DSA) Form

Updates

- Online eReporting form, available mid-December
- MS4 Annual Report PDF for information collection, available now!



MS4 General Permit

MS4 General Permit – Effective May 1, 2019

- Storm Water Management Program
- Minimum Control Measures
- Control the runoff pollutants leaving the overall site

MS4 General Permit Updates and Statewide Annual Reports Summary Webinar – Oct. 30, 2019 recording and slides online
dnr.wi.gov/topic/stormwater/municipal/fact_sheets.html

3. Compliance Schedule

- The permittee shall **submit the storm water management programs to the department by** and **begin implementing any updates to its storm water management programs** no later than **March 31, 2021**.
 - Required reports and permit compliance documents shall be **submitted electronically** through the Department's electronic reporting system.
- Develop a written storm water management program document(s) that, at a minimum, describes in detail how the permittee intends to comply with the permit's requirements for each minimum control measure.

Questions?

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Storm water staff

dnr.wi.gov/topic/stormwater/contacts.html



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