

Local Storm Water Pollution Prevention Plan Meeting

City of Inver Grove Heights



CITY OF
INVER GROVE
HEIGHTS

ENGINEERING DIVISION

Engineering Division
Thursday, April 25 | 7 p.m.

www.ighmn.gov

Engineering Division

Presented by: Steve Dodge, Assistant City Engineer

Prepared by: Nicole Portugal, Engineering Technician

Storm Water Pollution Prevention Plan (SWPPP) Municipal Separate Storm Sewer Systems (MS4) Annual Meeting

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Agenda: Presentation

- History of SWPPP/NPDES
- 6 MCM's
- Accomplishments
- Goals

Q&A

NPDES MS4 Permit

- **N**ational
- **P**ollutant
- **D**ischarge
- **E**limination
- **S**ystem



- **S**torm
- **W**ater
- **P**ollution
- **P**revention
- **P**lan

NPDES Permit Program:

Created in 1972 by the Clean Water Act to address water pollution by regulating point sources that discharge pollutants to surface waters.

Why These Meetings Are Important

- Educate interested citizens.
- Receive comments from the public
 - Storm Water Pollution Prevention Plan (SWPPP)
 - Explain the 6 Minimum Control Measures (MCMs)
 - Review progress of Best Management Practices (BMPs)
- Meet the annual requirements of the MS4 Permit.
 - Municipal Separate Storm Sewer Systems (MS4s)
 - Annual Report provided on MPCA Worksheet



Six Minimum Control Measures (MCM)

1. Public education and outreach.
2. Public participation and involvement.
3. Illicit discharge detection and elimination.
4. Construction site stormwater runoff control.
5. Post-construction stormwater management.
6. Pollution prevention and good housekeeping for municipal operations.



Common Acronyms and What They Mean

Stormwater Pollution Prevention Plan (SWPPP):

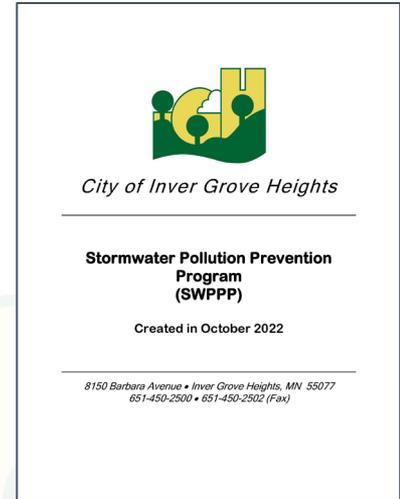
A general plan to prevent pollution from entering stormwater throughout the City.

Stormwater Management Plan (SWMP):

An overall plan that details how the City will manage stormwater.

National Pollutant Discharge Elimination System (NPDES):

A permit program to help address water pollution by regulating point sources that discharge pollutants.



Public Partnerships

- Dakota County Soil and Water Conservation District (DCSWCD)
- Eagan - Inver Grove Heights Watershed Management Organizations (Eagan-IGH WMO)
- Lower Mississippi River Watershed Management Organization (LMRWMO)
- Minnesota Board of Water and Soil Resources (MN BWSR)
- Minnesota Cities Stormwater Coalition (MCSC)



Eagan - Inver Grove Heights
Watershed Management Organization



2023 Municipal Separate Storm Sewer Systems (MS4) Achievements

Highlights of at least six accomplishments and achievements in 2023.

2023 MS4 Accomplishments and Achievements

MCM 1 and 2: Public Education, Outreach, Participation and Involvement

- An article in the City's **Insights** newsletter, distributed to all IGH residents (36,649), highlighted:
 - Adopt a drain
 - Pet waste
 - Illicit discharge detection and elimination
 - Yard waste
- Resident participation through *Landscaping for Clean Water* workshops. Classes offered were:
 - Introductory classes
 - Maintenance classes
 - Design classes
 - Shoreline classes



2023 MS4 Accomplishments and Achievements

MCM 1 and 2: Public Education, Outreach, Participation and Involvement

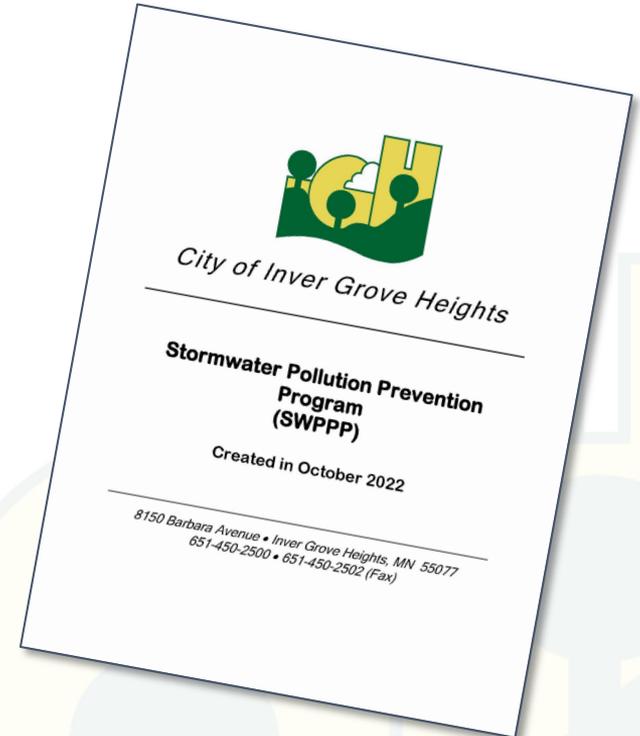
- SWPPP (Storm Water Pollution Prevention Plan) Annual Public Meeting.
- Dakota County Watershed Conservation District (DCSWCD) Garden Maintenance Workshops.
- Eagan-Inver Grove Heights Watershed Management Organization (E-IGH WMO)
 - Educational display box represented at events such as the Healthy Living Fair, Touch a Truck and the IGH Days Business Expo.
 - Clean Water Educational Bags distributed at the Library.
 - Salt Smart Program: Promoted on social media and at local business.
 - 250 Salt Smart cups distributed.
 - Rain barrel program.
- Collaboration with local stormwater groups.



2023 MS4 Accomplishments and Achievements

MCM 1 and 2: Public Education, Outreach, Participation and Involvement

- Presence on Social Media - Facebook, Twitter and Instagram.
- Publishing stormwater informational material on City's website:
 - Stormwater MS4 Annual Report.
 - Storm Water Pollution Prevention Plan (SWPPP).
 - Other MS4 information and related documents.



2023 MS4 Accomplishments and Achievements

MCM 3: Illicit Discharge Detection and Elimination

An illicit discharge is any discharge into a stormwater drain system that is not composed entirely of stormwater. (Exceptions include firefighting, lawn watering, etc.)

- Major sources of illicit discharges:
 - Household cleaning services
 - Trenchless boring slurry discharge
 - Improper disposal of oil or household toxins
 - Industrial point source pollution
 - Failing septic systems
 - Illegal dumping
 - Spills from accidents or gas stations
- Updates made to GIS the storm sewer map.
- Annual storm sewer inspections conducted.
- Illicit discharges were identified, reviewed and investigated by City staff.
 - Eight Notice of Violation were issued in 2023.



2023 MS4 Accomplishments and Achievements

MCM 4: Construction Site Stormwater Runoff Control



- All construction sites larger than one acre of disturbance require a National Pollutant Discharge Elimination System (NPDES) permit.
 - Ten Erosion and Sediment Notices of Violation issued in 2023.
- Erosion control inspections vary by project type, resident concerns and proximity to special receiving waters.
 - Inspections Weekly or ½ inch rainfall

2023 MS4 Accomplishments and Achievements

MCM 5: Post-Construction Storm Water Management

- City enforced one-inch infiltration requirements.
- Administered 4th generation Storm Water Management Plan (SWMP).
- Administered Northwest Area Storm Water Management Plan.
 - Protects regional basins with five-year stormwater volume requirements.
- Updated City-wide Best Management Practices (BMPs) for stormwater inventory.
 - More than 120 miles of stormwater piping.
 - More than 600 ponds and basins.
 - More than 4,000 catch basins and drains.
 - More than 1,500 Aprons and pipe ends.
 - More than 450 Environmental MHs and Control Structures.



2023 MS4 Accomplishments and Achievements

MCM 5: Post-Construction Stormwater Management

- Three plan reviews conducted.
- Nine major projects under construction.
- Six development projects requiring stormwater facilities maintenance agreements.



2023 MS4 Accomplishments and Achievements

MCM 6: Pollution Prevention & Good Housekeeping for Municipal Operations

- Public Works staff conducted inspections on public stormwater facilities.
 - 20% of storm sewer system discharge points and ponds.
 - 100% of environmental structures.
 - Major and minor maintenance, repairs and activities.
- Street sweeping all city streets and parking lots in both Spring and Fall.
 - Regenerative Street Sweeper.
 - Additional sweeping as necessary.



2023 MS4 Accomplishments and Achievements

Did you know Public Works monitors road salt usage and ensures:

- Utilizes practices to reduce exposure and transferring of material from salt storage areas.
- Stores salt on impervious surfaces.
- Proper covering of salt storage areas.
- Implemented salt saver sanders with pre-wet tanks.
- Utilize salt brine to pretreat roads.
- Reduced salt usage by over 55% since 2007.



2023 MS4 Accomplishments and Achievements

Other Achievements

- Municipal Separate Storm Sewer Systems (MS4) Permit Compliance update:
 - The City updates an annual list of high priority education materials to focus on, such as:
 - Yard waste management
 - Household chemical handling and disposal
 - Illicit discharge
 - Use of de-icing salt
 - Pet waste
 - The City updates an annual list of its owned/operated facilities for higher priority monitoring of pollutants.
- Other annually updated items:
 - Enforcement Response Procedures (ERPs).
 - Standard Operating Procedures (SOPs).

2024 Municipal Separate Storm Sewer Systems (MS4) Objectives

Goals and achievements identified by the City to accomplish in 2024.

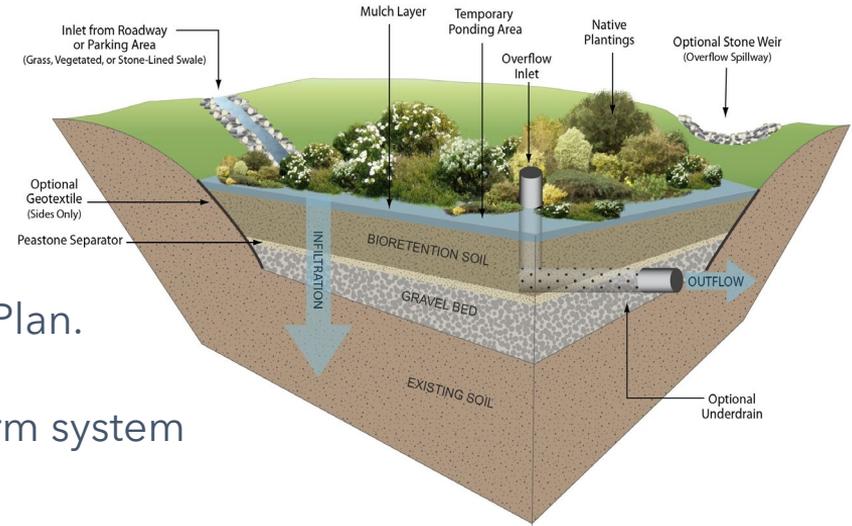
2024 MS4 Objectives

- Construct stormwater quality improvements on City and County projects where feasible.
- Review private development agreements and construction.
- Provide IDDE/MS4/NPDES annual training on:
 - Illicit Discharge Detection and Elimination (IDDE)
 - Municipal Separate Storm Sewer Systems (MS4)
 - National Pollutant Discharge Elimination System (NPDES)
- Annual updates to City facilities map on GIS.

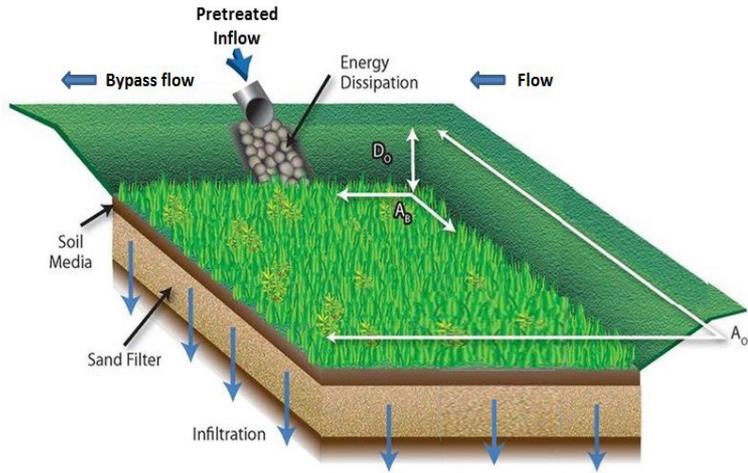


2024 MS4 Objectives

- Develop televising program.
- Apply for stormwater grants.
- Update Stormwater Capital Improvement Plan.
- Identify more funding and revenue for storm system improvements.
- Update the City's website with current information on raingardens, smart salting, Illicit Discharge Detection and Elimination (IDDE), Storm Water Pollution Prevention Plan (SWPPP), and yard and household hazardous waste.



2024 MS4 Objectives



- Administer Northwest Area standards with new developments.
- Attend various organization meetings:
 - LMRWMO (Monthly)
 - Eagan-IGH WMO (Bimonthly)
 - Minnesota Cities Stormwater Coalition (MCSC) (Annual)
- Maintain Northwest Area stormwater models.
- Major repairs to stormwater facility (contractor).
- Routine stormwater facility maintenance (City staff).

Help Protect Our Waters

Public Involvement Opportunities



Public Involvement Opportunities

Salt Smart

Combat ice AND protect our water resources during the winter season. Be aware of how much is too much salt to use.



Adopt a Storm Drain

Help clear drain of leaves, trash and debris, and reduce water pollution by adopting a storm drain.

Visit Adopt-a-Drain.org for more information.

Public Involvement Opportunities

Scoop the Poop

Pet waste is NOT good fertilizer! It can harm water quality. Scoop the poop, bag it and throw it in the trash.



Storm Drain Stenciling (Coming soon!!)

Look for upcoming information on how you or your organization can stencil a nearby storm drain.

Pollute or Protect Educational Boxes

Educational boxes detailing the stormwater cycle and how it impacts nearby ponds, lakes and rivers.



Public Involvement Opportunities

Get Involved

- Join a *Landscaping for Clean Water* Course.
- Visit the Lower Mississippi River WMO's website:

<https://lmrwmo.org>



Get Appointed

- Water Resources Board of Manager
- Environmental Commissioner
- Volunteer

Get Informed on IDDE

- Learn about illicit discharge detection and elimination.
- Visit the Dakota County stormwater webpage:
- Co.Dakota.mn.us/Environment/WaterResources

A screenshot of the Dakota County website's "Stormwater" page. The page has a red header with the "Dakota" logo and navigation links for "Maps & Directions", "Departments", "About Us", and "Contact Us". Below the header is a navigation menu with categories: "Government", "Home & Property", "Permits & Licenses", "Law & Justice", "Health & Family", "Environment", and "Transportation". The "Environment" category is selected, and the "Stormwater" sub-page is active. The main content area is titled "Stormwater" and contains text explaining that stormwater runoff is a leading source of water pollution. It lists common pollutants like sediment, pathogens, salt, fertilizers, metals, oils, pesticides, and trash. The text also mentions that Dakota County strives to ensure stormwater is treated and controlled through construction and development projects. At the bottom of the page, there is a video player with the title "Clean Streets Lead to Clean Waters" and a "Watch on YouTube" button. The video thumbnail shows a person walking a dog near a house and a car.

Questions or Comments?

Additional information can be found at:

www.pca.state.mn.us/water/stormwater/stormwater-ms4.html

ighmn.gov/SWPPP

cleanwatermn.org



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