Milwaukee Metropolitan Sewerage District’s

Managing water where it falls
Milwaukee Metropolitan Sewerage District

Regional Agency Established by State Law

To Protect the Public & Lake Michigan:
• Convey/Store/Reclaim Wastewater
• Manage flooding
• Protect water quality

We Serve:
• 1.1 Million Customers
• 28 Municipalities
• 411 Square Miles
Convey/Store/Reclaim Wastewater

South Shore Water Reclamation Facility

Jones Island Water Reclamation Facility
Sewers

300 Miles
MMSD Sewers

3,000 Miles
Municipality Owned Sewers

3,000 Miles
Private Laterals
Sewer Operations Under Different Weather Conditions
Sewer Operations Under Different Weather Conditions
Deep Tunnel
Flood Management

Another inch would make June 2008 the rainiest month on record in Milwaukee.

Next: Flash flood watch

Swollen waters haven't receded, and more rain is forecast.
Flood Management Projects & Programs

County Grounds

Greenseams

30th St. Corridor

Working Soils

Lincoln Creek

inspire | collaborate | protect
### Greater Milwaukee Watersheds

**Fecal Coliform Loadings**

<table>
<thead>
<tr>
<th>Year</th>
<th>Rural-Agricultural Runoff</th>
<th>CSO's</th>
<th>Urban-Non-Agricultural Runoff</th>
<th>WWTP</th>
<th>SSO's</th>
</tr>
</thead>
<tbody>
<tr>
<td>1975</td>
<td>21%</td>
<td>49%</td>
<td>23%</td>
<td>5%</td>
<td>2%</td>
</tr>
<tr>
<td>2000</td>
<td>21%</td>
<td>7%</td>
<td>68%</td>
<td>2%</td>
<td>2%</td>
</tr>
</tbody>
</table>

**Graphs:**

- **1975:**
  - Rural-Agricultural Runoff: 21%
  - Urban-Non-Agricultural Runoff: 23%
  - CSO's: 49%
  - WWTP: 5%
  - SSO's: 2%

- **2000:**
  - Rural-Agricultural Runoff: 21%
  - Urban-Non-Agricultural Runoff: 68%
  - CSO's: 7%
  - WWTP: 2%
  - SSO's: 2%
In a watershed, the flow of water is the pathway for nonpoint pollution.

A watershed is an area of land that captures water and drains it to a body of water at its low point.
Rethinking stormwater

- Regard stormwater as resource rather than nuisance
- Retain water where it falls
- Managed at the source rather than downstream
- Use natural hydrological processes
- Address the inter-relationship of water quality and quantity
Impacts of climate change – storm intensity

“As the global climate changes, there are likely to be changes within the hydrosphere....Expand green infrastructure to help to mitigate climate change and make the region more resilient in the face of intense storms.”

MMSD 2035 Vision Statement
New challenges demand new approaches and a recognition that we all in this together

Help residents better managing water where it falls to help reduce the risk of basement flooding and sewer backups, as well as reducing the potential of polluted stormwater entering our waterways.
Outside your home:

- Properly grade soil around your house
- Check your basement windows for leaks
- Clean gutters and properly direct downspouts
- Install a rain garden
- Grow a lush lawn
- Install a rain barrel
- Plant more trees and native plants
Rain gardens
New approach to lawns
Inside your home:

✓ Check for foundation cracks
✓ Install a sump pump
✓ Install a backflow preventer
✓ Have your lateral inspected
✓ Elevate items stored in your basement
Tips for Water Conservation

✓ Fix leaks
✓ Replace older toilets
✓ Install low flow faucets and shower heads
Make water stewardship a part of your neighborhood & community’s culture
Build strong and resilient communities through water stewardship
Thank you to Green Muslims and Huda Alkaff for inviting me to take part in this webinar series. And thank you for participating in the webinar.

If you are interested in more information, please call or email me.

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