



City of Forest Lake MS4 Program

Program Year 2019 Annual Meeting

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Annual Meeting Schedule

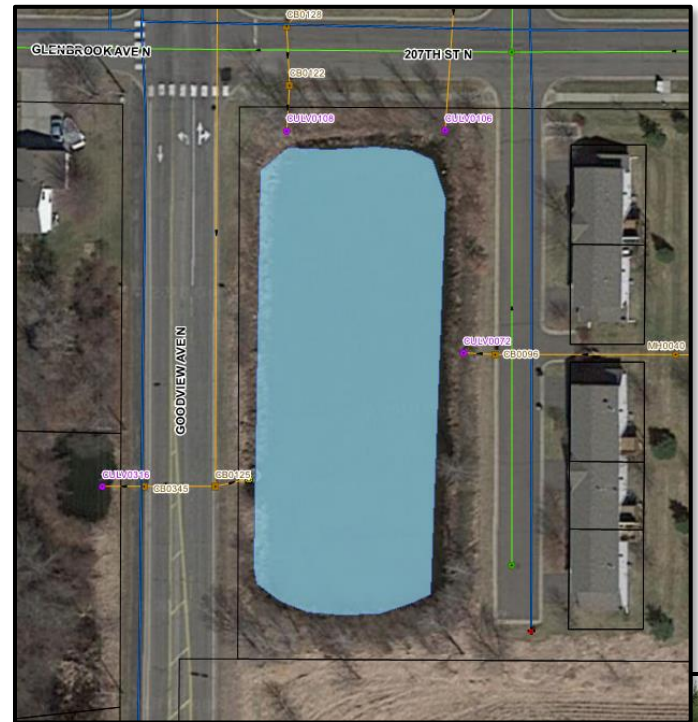
- Forest Lake's MS4 Background
- Current Progress of Stormwater Pollution Prevention Plan (SWPPP)
- Significant Accomplishments
- 2020 MS4 Permit Updates
- Open Conversation



MS4 Background

“Municipal Separate Storm Sewer System”

- Clean Water Act (1972)
- MPCA Initiated MS4 Permit in 2002
- Forest Lake MS4 since 2007
- Current Permit: August 1, 2013 and ends in 2019
- Permit gives “authorization to discharge stormwater”
- Environmental protection using:
 - Regulatory mechanisms
 - Education/outreach
 - Implementation



Strong Partnerships



- Clear Lake Association
- Forest Lake Association



MS4 Annual Report

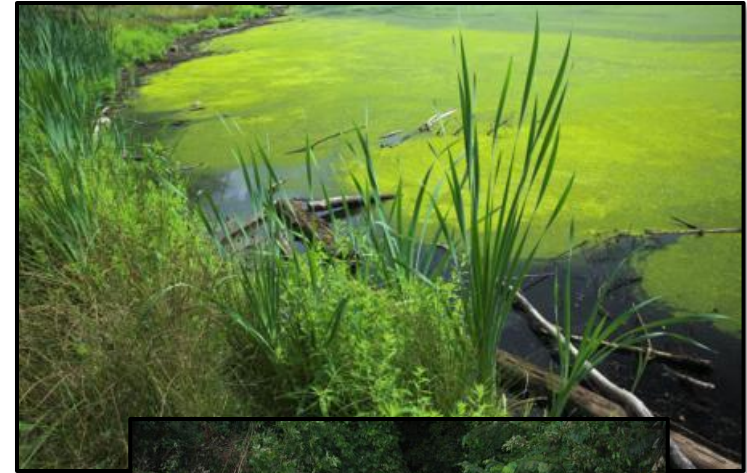
- Submitted on June 3rd, 2020.
- Total Maximum Daily Load Spreadsheet updated.
- Approval pending.



Minimum Control Measures (MCM)

Stormwater Pollution Prevention Plan (SWPPP) includes:

1. Public education and outreach
2. Public participation
3. Eliminate illicit discharges to the storm sewer
4. Construction-site runoff controls
5. Post-construction runoff controls
6. Pollution prevention and municipal “good housekeeping”



Street Improvements and Maintenance

- 2019 Local Street Improvement Projects
 - Budgeted from Stormwater Utility - \$25,000
 - Actual storm sewer improvement costs \$104,000
- 2019 Stormwater Pond Cleaning Projects
 - ~\$150,000 for two ponds.
- Other storm sewer/drainage improvements throughout the year.

196 Ponds/Wetlands

44 Miles Storm Pipe

1808 Catch Basins

1019 Culvert Ends

464 Manholes

1900 Surface Water Features



Public Outreach and Education

- Partnership with Washington County, Washington Conservation District, Comfort Lake Forest Lake Watershed District, Rice Creek Watershed District.
- East Metro Water Resource Education Program (EMWREP)
- Utility Mailer (Spring and Fall)
- Landscaping Workshops
- Stormwater Events
- TV/Radio Adds
- Lake Association Workshops
- Materials and Resources
- SMART Salting Workshops



Significant Accomplishments

- Forest Lake High School Stormwater Reuse Project
 - BWSR Clean Water Fund Grant – 2017
 - Construction Substantially Complete (2018/2019)
 - Operation began in late 2019, and into 2020.
- Shields Lake Stormwater Harvest, Irrigation Reuse System, and Alum Treatment
 - BWSR Clean Water Fund Grant – 2017
 - Construction Complete Fall 2018
 - Alum – 2019, second treatment in 2020



Significant Accomplishments

- Forest Lake Enhanced Street Sweeping Plan
 - BWSR Clean Water Fund Grant – 2017
 - Sweeper Purchased and in operation through 2019 – 91 total sweep events.
 - 1,374,510 lbs of material collected.
 - Data showed over 750 pounds of phosphorus removed.



Significant Accomplishments

- Pond Cleaning Prioritization
 - Two ponds cleaned in late 2018 and 2019.
 - Proposed budget of \$100,000 per year to continue cleaning highest priority ponds.
- Local Water Management Plan Updates
 - Updates complete.
 - Full approval by CLFLWD, RCWD, Washington County and Met Council
- Curly-leaf treatment – Forest Lake
- Diagnostic and Monitoring Work



2019 MS4 Permit Updates

- Additional Education Requirements
 - Recording completion
 - More defined schedules
 - Partnerships
 - Deicing/pet waste
- Public ↔ Private Maintenance
- Linear (Street) Projects
 - New AND Reconstructed Impervious
- Reissue Permit Late **2020** (Anticipated)



Questions/Open Discussion

