

CITY OF HANOVER

2017 MS4 Annual Meeting

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NPDES PHASE II MS4 PERMIT

National

Pollutant

Discharge

Elimination

System

Overview

- ❑ The Stormwater Program for MS4s is designed to reduce the amount of sediment and pollution that enters surface and ground water from storm sewer systems to the maximum extent practicable.
- ❑ Stormwater discharges associated with MS4s are regulated through the use of NPDES permits. NPDES Permits are legal documents. Through this permit, the owner or operator is required to develop a stormwater pollution prevention program (SWPPP) that incorporates best management practices (BMPs) applicable to their MS4.

What is a MS4?

- ▣ A MS4 is a conveyance or system of conveyances (roads, with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, storm drains);
- ▣ Owned or operated by a state, city, town, borough, county, parish, district, association, or other public body having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes.
- ▣ Designated or used for collecting or conveying stormwater;
- ▣ Which is not a combined sewer; and which is not part of a publicly owned treatment works.

Why is Hanover a MS4?

- ▣ The City of Hanover is now a Permitted MS4. (since October 2016).
- ▣ The City of Hanover was designated as an MS4 because it meets the following criteria.
- ▣ MS4s designated by the rule are cities and townships with a population of at least 10,000; and cities and townships with a population of at least 5,000.
- ▣ Has a stormwater conveyance system that drains to valuable or polluted waters.

Purpose of the Meeting

- ▣ Educate the public
- ▣ Receive public comment
 - StormWaterPollutionPreventionProgram (SWPPP)
 - Review progress of BMPs
- ▣ Meet the requirements of the Permit
- ▣ Overview of MS4 Program

2017 Activities

▣ Public Education/Outreach

- City website
- Newsletters articles
- Social Media (Facebook, Twitter, etc.)
- Hanover Cleanup Day
- Hanover Harvest Fest (potential avenue)

▣ Construction Sites! Inspections?

- City of Hanover Public Works Facility
- Crow River Heights West – 3rd Addition

▣ Plan Reviews

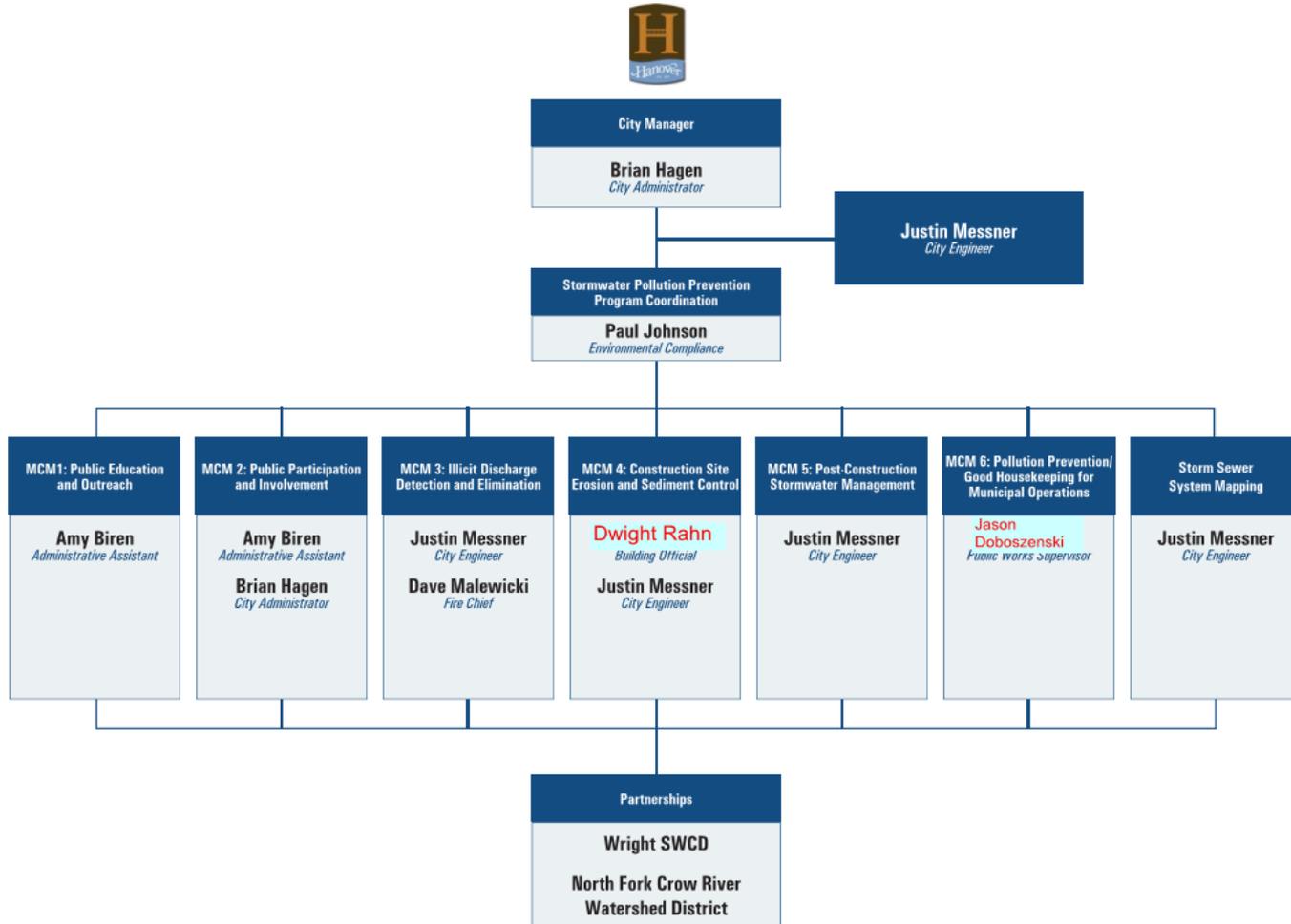
▣ Stormwater System Inspections

- Approval of SWAMP (Storm Water Asset Management Program) to meet inspection requirements
- Approval of 2017 MS4 Services Budget

▣ Street Sweeping

- Frequency
- (Keep track of number or loads or total estimated cubic yards recovered)

City of Hanover MS4 Organizational Chart



Six Minimum Control Measures (MCMs) to MS4 Permit

- 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

MCM 1

Public education and outreach:

▣ Prioritize Education Activities Within the City of Hanover

Focus:

- ▣ Areas without stormwater treatment
 - ▣ Curb and gutter
 - ▣ Areas adjacent to water bodies and discharge to water bodies that have degraded water quality
- ### ▣ IDDE – Educate staff and public on illicit discharge
- ▣ Handouts, surveys, etc.
- ### ▣ Partnerships – Educational planning meeting

MCM 2

Public participation and involvement:

- ▣ Annual Public Meeting – One opportunity annually for public comment and input on SWPPP
 - Provide 30 Day Public Notice of meeting to provide input on the SWPPP
- ▣ Documentation of specific MCM 2 information
 - Attendance
 - Comments Received

MCM 3

Illicit discharge detection and elimination

- ▣ Ordinance – Illicit Discharge Detection Elimination
- ▣ Training – Annual training of all field staff in recognition of illicit discharges
- ▣ Detection – Look for during outfall inspections and during routine activities.

MCM 4

Construction site stormwater runoff control

- ▣ Ordinance – Construction Site Stormwater Runoff Control
- ▣ Plan reviews and inspections – Plan reviews and inspections required for all sites 1 acre or greater. Minimum of weekly inspections and after half inch rain fall events on sites 1 acre or larger
- ▣ Still need to inspect and monitor smaller sites- sites under an acre. City can determine inspection frequency on these sites.
- ▣ Documentation –record inspections and plan reviews

MCM 5

Post-construction stormwater management

- ▣ Ordinance – Post Construction Stormwater Runoff Control
 - New development no net increase in volume, TSS, TP from pre-project conditions
 - Redevelopment net reduction of volume, TSS, and TP from pre-project conditions

- ▣ Long-term Maintenance – Developed post construction regulatory mechanisms to allow City to conduct inspections, perform maintenance, and assess costs to maintain structural stormwater BMPs constructed after the permit is in effect
 - Rain gardens
 - Infiltration basins
 - Stormponds

MCM 6

Pollution prevention and good housekeeping for municipal operations

- ▣ SWAMP – Storm Water Asset Management Program
- ▣ Inspections :
 - Structural Stormwater BMPs (annually)
 - Outfalls (once per 5 year permit term)
 - Ponds (once per 5 year permit term)
 - Stockpiles and Material Handling Areas (quarterly)
- ▣ Training – Implement annual stormwater management training program
- ▣ Documentation

MS4 Checklist

- ▣ Site Plan Review for Post Construction
 - When the proposed project results of 1 or more acres of new impervious surface or fully reconstructs 1 or more acres of impervious surface
- ▣ Construction Site Inspections
 - Initial inspection in accordance with city ordinance
 - Project completion inspection
 - At any other time, at the issuing authority's discretion
 - City owned projects weekly and within 24 hours of 1/2 inch or more rain event

MS4 Checklist (continued)

- **Structural Stormwater BMP Inspection** (annually): Sumps, grit chambers, baffles, stormceptors, rain gardens, infiltration basins, and other pollution control devices.
 - 100% Inspection
- **Stormwater Catch Basins**
 - 20% Annually
- **Stormwater Pond Inspection**
 - 100% Inspected within 5 year permit cycle
- **TSS and TP Assessment of Ponds**
 - Should be completed after initial inspection is completed. (SWAMP)
- **Outfall Inspections**
 - culverts, or pipes of 12" or greater that outfall into public water bodies.
 - One inspection within permit cycle (5 years)
- **Training (annually)**
 - MS4 Stormwater Program, Illicit Discharge, Erosion and Sediment Control BMPs.

MS4 Checklist (continued)

- ▣ City Owned Facility Inspections (quarterly)
 - Ex; Public works building, material storage yard, golf maintenance, streets and parks.
- ▣ Public Education
 - Newsletter Articles
 - Website
- ▣ Public Involvement
 - Annual SWPPP Meeting
- ▣ Annual Reporting
 - Due June 30th each year

Stormwater Improvement Opportunities

- ▣ Grants through BSWR?
- ▣ Street Improvement Projects
- ▣ MCWD Cost-Share Grant
- ▣ Education during events

Where to go from here?

- ▣ Provide education for high priority areas
- ▣ Continue to perform training with city staff
- ▣ Continually perform inspections for illicit discharges, construction sites, and post-construction sites
- ▣ Complete stormwater system inspections and maintenance
- ▣ Continue to document MS4 activities. (Most crucial element to a possible future MS4 MPCA Audit)

Questions or Comments?

Additional information can be found at:

www.pca.state.mn.us

Thanks!