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## The New Adventures of Hartsookville

MS4 Pollution Prevention FWWA Conference March 7, 2018

#### Overall Goal

Prevent storm water pollution through direct control of:

- 1. Municipal activities
- 2. Municipally owned land

Considered 'low hanging fruit'

#### Pollution Prevention Overview

- Planning Elements
- Planning & Ongoing Implementation
- Ongoing Maintenance Efforts





#### Planning Elements

- Nutrient Management Plans
- Going Green-Environmentally Sensitive Development
- Source Water Protection

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#### Nutrient Management Plans

- Municipal Properties with > 5 acres maintained turf—Talk to Parks Staff
- Nutrient Management Plan
  - -Soil Testing
  - Site-specific nutrient application schedule







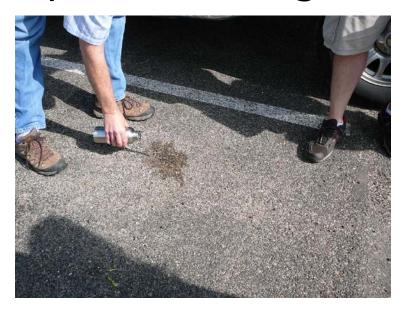


#### Going Green

- Applies to Municipal Projects
- Consideration of Environmentally Sensitive Land Development Designs



Green Infrastructure



Low Impact Development

#### Source Water Protection

- Reduce Municipal Sources of Storm Water Pollution
- Located in Source Water Protection Areas



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### Planning & Implementation

- Road Salt/Deicing
- Municipal Yard SWPPP
- Educational Element

#### Winter Road De-icing

- Criteria: Apply no more than needed to maintain public safety
- Annual Reporting:
  - Winter road maintenance contact
  - Type of products used
  - Amount of products used
  - Type of equipment
  - Snow disposal locations
  - Strategies for anti-icing, equipment calibration and salt reduction
- Guidance: WisDOT Highway Maintenance Manual Chapter 35

#### ALL MANAGEMENT

#### Public Works Yards

 Storm water pollution prevention planning for municipal garages, storage areas and other sources of storm water pollution from municipal facilities.

# Storm Water Pollution Prevention Plan (SWPPP)

- SWPPP Map
  - Drainage Patterns
  - Sources of storm water pollutants
  - Best Management Practices

sc Source Controls

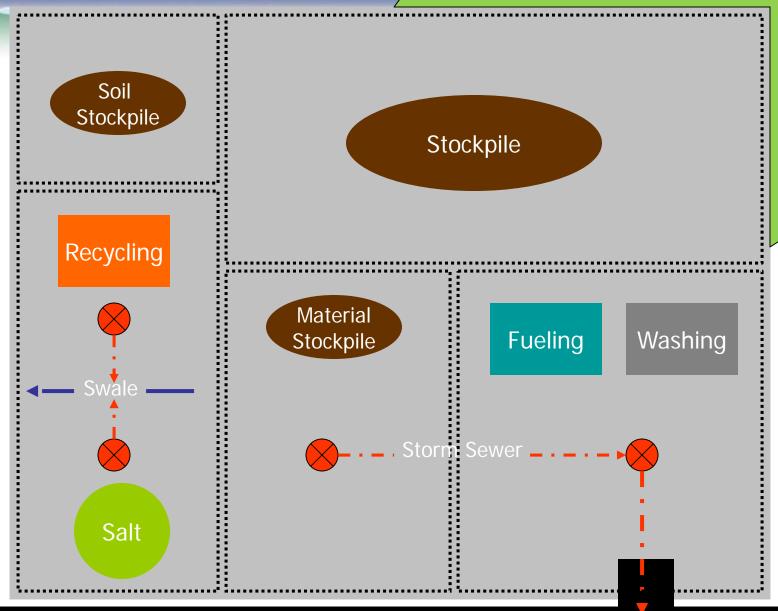
TP Treatment Practices

## The Mayor of Hartsookville



#### Hartsookville DPW Yard

River



























# Salt Storage INGERSOLL-RAND



























































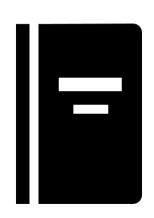


#### Recommendations

- Identify source control and treatment practices on SWPPP Map
- No Exposure, No Exposure, No Exposure!
- Utilize existing DNR technical standards for erosion & sediment control and storm water management

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#### **Educational Element**







## Ongoing Maintenance

- MS4 Owned BMPs
- Street and Catchbasin Cleaning
- Yard Waste Management

### Municipal BMP Maintenance

- Inventory-Know what you have
  - Practices used in pollutant load analysis
- Inspect-Know the condition
  - DNR tech standards
  - Record keeping
- Maintain-Plan and execute maintenance
  - NR 528





# Street and CB Cleaning

- Are you doing what your plan says?
  - Equipment type
  - Frequency
- Do you have records of it?
- Is disposal appropriate?

### Yard Waste Management

- Do you have a program?
  - -Onsite management
  - Compost site
  - Collection
  - Restrictions on Storage Location
- What is your program?
- Does your TMDL plan make any assumptions?

### Questions?

