Developing a Municipal Good Housekeeping Program

January 9,2009

CNYRPDB, Syracuse, NY

Presented by:

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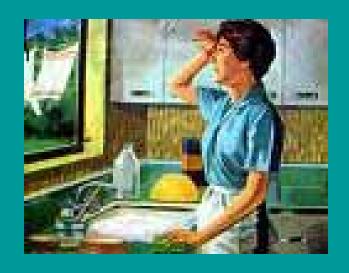
Dunn and Sgromo Engineers



SUNY ESF



WHAT IS MUNICPAL GOOD HOUSEKEEPING??









Reducing Water Pollution from Municipal Operations



Municipal Operations

- Highway and Bridge Maintenance
- Winter Road Management
- Vehicle Maintenance
- Parks/Grounds
- Storm water System Management









What does it take to have a good Good House Keeping Program?



Common sense

Awareness

Commitment

Ways Municipal Operations Can Pollute





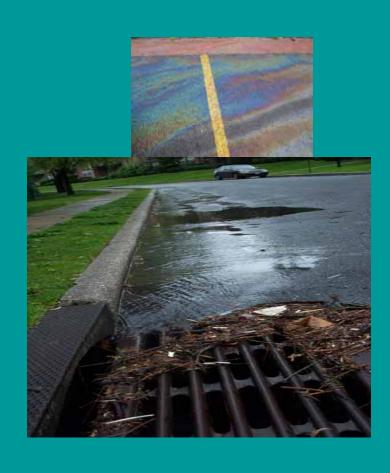
Soil Exposure





Flushing





Exposure of Pollutants









Exposure of Pollutants



Leaks, Spills, and Seeps









Poor Maintenance













Direct Application



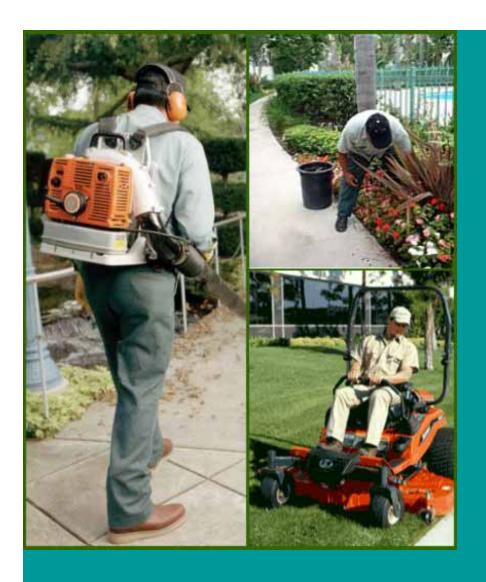




Illegal Connections



Types of Pollutants from Municipal Operations



Grounds keeping

- Nutrients
- Pesticides
- Sediment
- Herbicides
- Bacteria

Road and Bridge Maintenance



- Sediment
- Oils and Tars
- Pesticides/Herbicides
- Metals
- Trash
- Paints



Street and Drainage Cleaning



- Sediment
- Bacteria
- Trash
- Chemicals
- Oil and Grease
- Metals
- Nutrients



Snow and Ice Control



STOP

- Sediment
- Salts
- Chemicals
- Oil and grease

- Sediment
- Oil and grease
- Metals
- Bacteria
- Trash
- Paints
- Solvents
- Engine fluids
- Chemicals

Vehicle Maintenance





Steps to Developing a GH Program

- Self assessment
- Reporting
- Goals
- Implementation
- Training

Motivation

.... it's the law.





The Permit

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES

MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4s)

Permit No. GP-0-08-002

Issued Pursuant to Article 17, Titles 7, 8 and Article 70 of the Environmental Conservation Law

Effective Date: May 1, 2008

Expiration: April 30, 2010

William R. Adriance Chief Permit Administrator

Address:

NYS DEC Div. Environmental Permits 625 Broadway Albany, N.Y. 12233-1750

Welliam & Horianu April 15, 2008
Authorized Signature Date

SPDES General Permit for Stormwater Discharge from MS4s, GP-0-08-002



The Program

Municipal Pollution Prevention And **Good Housekeeping Program Assistance**

May 2006



Denise M. Sheehan, Commissioner NYS Department of Environmental George Pataki, Governor

Self Assessment

- Name of operation
- Services provided
- How is service provided
- Where and when is it provided
- Equipment used
- Personnel used
- Materials used
- How are materials used



Self assessment (cont.)

- How are materials stored
- How are used materials disposed
- Potential sources of water pollution
- How/when does operation come in contact with ground/storm water
- Current ways water pollution is prevented or minimized
- Future plans

Setting Goals

- Ways of reducing or preventing water pollution from the operation
- Practicality
- Obstacles
- Steps/phasing
- Timeframe
- Equipment, personnel, materials
- Cost

Implementing Goals

- Management Practices
- Measurable results
- Evaluate effectiveness





Reporting



- Goals
- Management practices
- Quantify results
- Assess effectiveness

Training

- Programs specific to Municipal operation
- In-house, or by qualified others





- Assessments every three years
- Annual reports
- Required training



DEC Municipal Audit





MS4 Audit Report Form

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