

Stormwater Presentation

Dover City Council

March 4, 2009



EPA Phase II Program

- First General Permit 2003 – 2008
 - Established Minimum Performance Standards
 - Required Stormwater Management Plan
 - Annual Reporting
- Second General Permit
 - Published for comment
 - EPA reviewing comments

EPA Phase II Program Requirements

Six Minimum Control Measurements

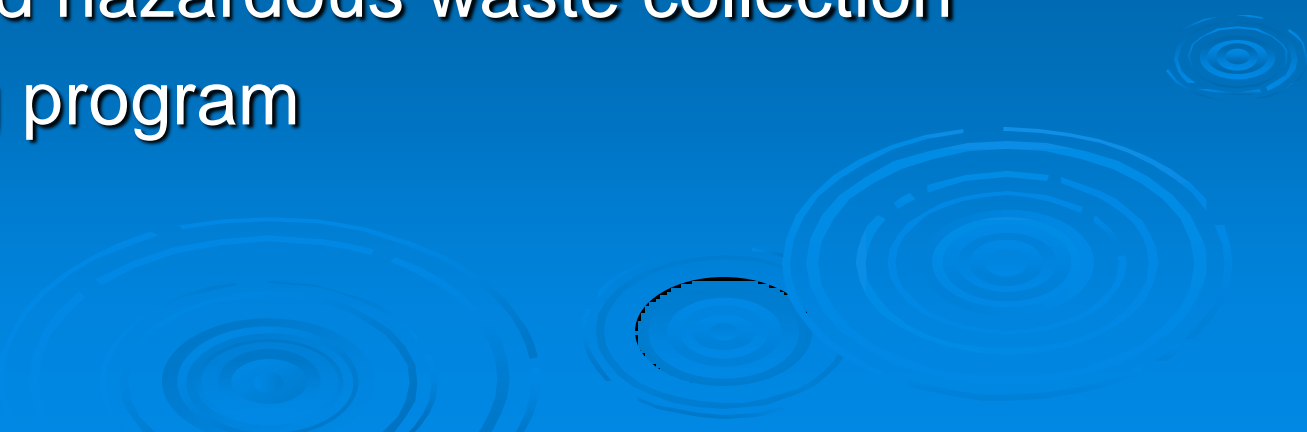
- ❖ Public Education and Outreach
- ❖ Public Information and Participation
- ❖ Illicit Discharge detection and elimination
- ❖ Construction site stormwater runoff control
- ❖ Post construction stormwater management
- ❖ Pollution prevention and good house keeping in municipal operations

Public Education and Outreach

- Stormwater video created and aired on Channel 22 annually
- Articles published in Community Notes
- Storm basin stenciling
- Pet waste program



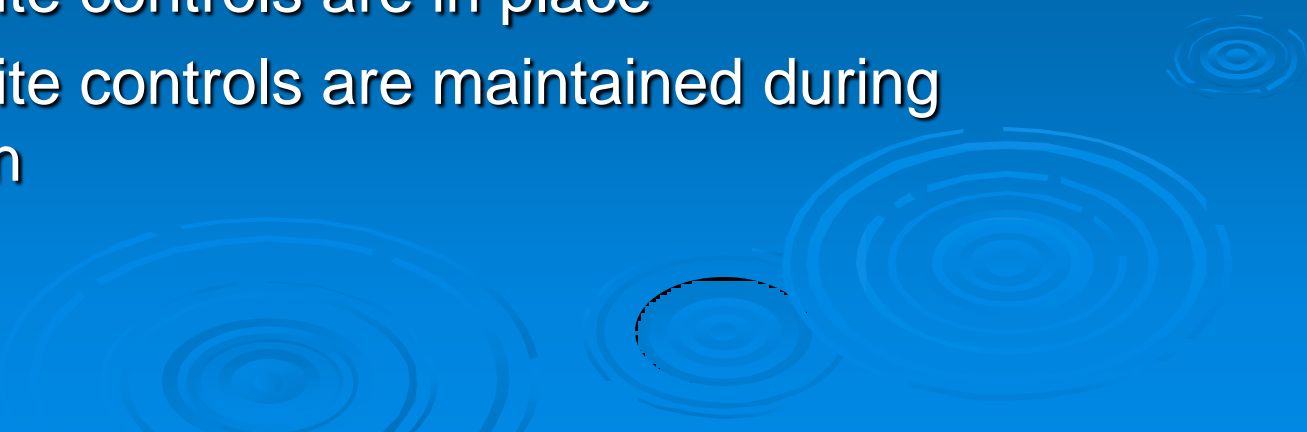
Public Information and Participation

- Prepared Stormwater Management Plan and presented to City Council
 - Pet waste program
 - NROC
 - Solid Waste Program
 - Household hazardous waste collection
 - Recycling program
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Illicit Discharge Detection and Elimination (IDDE)

- Partnered with NHDES to identify and remove illicit discharges since 1999
- Developed NH Handbook for IDDE program (Seacoast Stormwater Coalition)
- Participated in IDDE training to develop an IDDE plan for Dover

Construction Site Stormwater Runoff Control

- Update subdivision and site review regulations
 - All projects 1 acre or more
 - Establish fines and penalties for noncompliance
 - Formally require Erosion and sediment control plans
 - Continue to require preconstruction conferences
 - Continue to provide site inspections
 - To insure site controls are in place
 - To insure site controls are maintained during construction
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Post Construction Stormwater Management

- Update subdivision and site review regulations
 - Projects disturbing 1 acre or more
 - Encourage use of latest BMP's
 - Encourage LID development
- Require stormwater operation and maintenance plans for new development and redevelopment sites
- Continue inspection of construction

Pollution prevention and good house keeping in municipal operations

- Program to reduce pollutant runoff from municipal operations.
 - Facility maintenance
 - Fleet maintenance
 - Roadway drainage system maintenance and,
 - Stormwater system maintenance.



Roadway drainage system maintenance

- Road ditch and drainage swale maintenance
- Culvert replacement
- Slope repair
- Flooding



Storm water system maintenance

- System mapping
- System inspection
- Catch basin and manhole cleaning
- Pipe cleaning
- Outlet repair



Dover At a Glance

Streets and Drains

- 2857 Catch basins
- 650 Manholes
- 65 miles of pipe
- 204 discharge locations
- 140 Culverts
- 101 miles of open drainage

Annual budget \$223,440

Sewer

- 2835 Sewer manholes
- 119 miles of pipe
- Pump stations

Annual Budget \$4,302,463

Proposed 2008 Permit

Retain Six Minimum Control Measures

- Require higher rate of catch basin cleaning,
- Require street sweeping twice per year,
- Perform annual inspection of all structures
- Require more effort in identifying and removing illicit connections,
- Perform monitoring of stormwater, and
- Implement system upgrades to improve water quality,
- Encourage the use of low impact development and green infrastructure techniques

Projected Additional Stormwater Costs for Second Permit Cycle

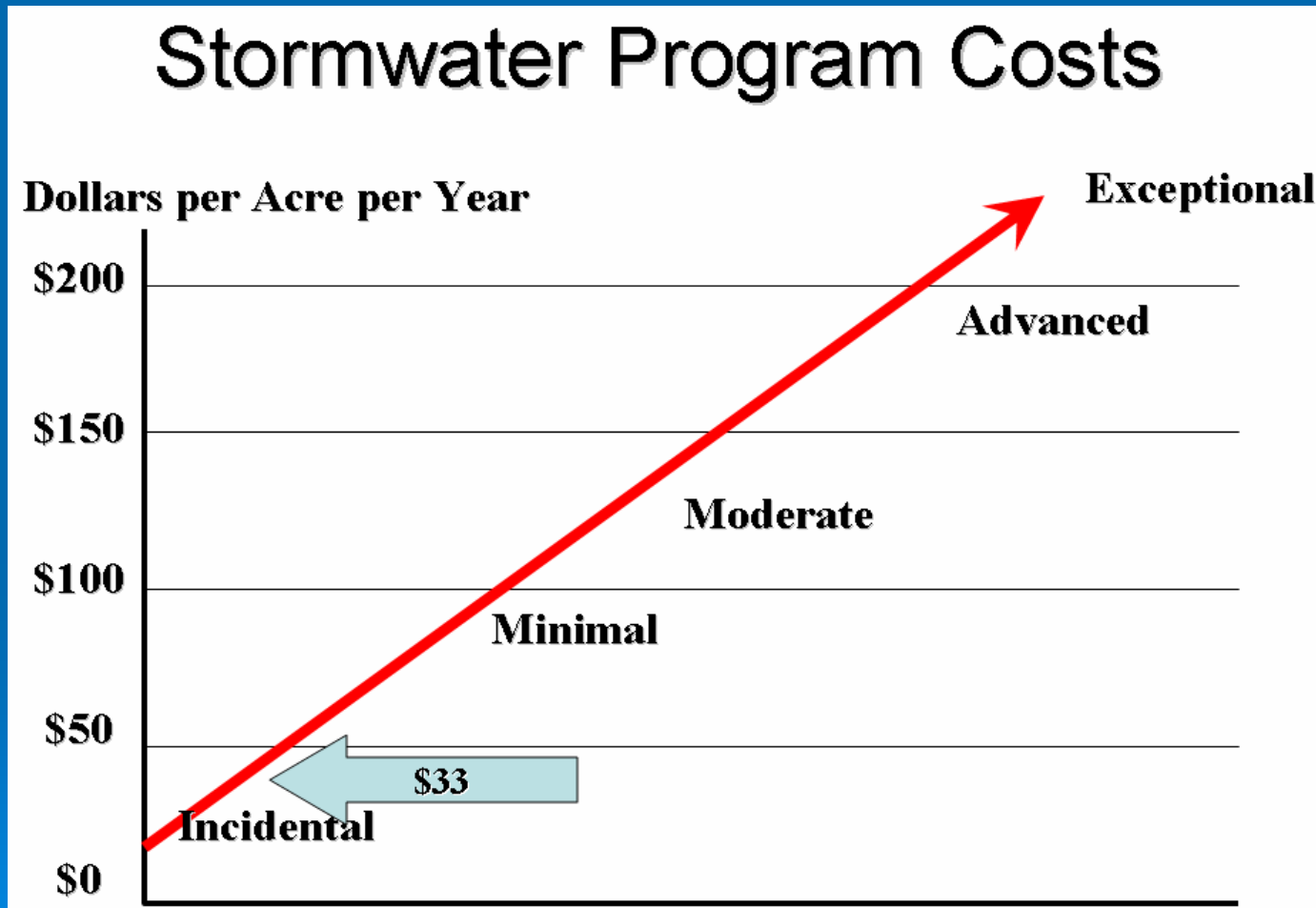
	<i>FY 2010</i>	<i>FY 2011</i>	<i>FY 2012</i>	<i>FY 2013</i>	<i>FY 2014</i>
<i>Administrative</i>	\$3,000	\$2,000	\$2,000	\$2,000	\$2,000
<i>Education</i>	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
<i>Outreach</i>	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
<i>Construction oversight</i>	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000
<i>Development</i>	\$5,000	\$7,000	\$6,000	\$6,000	\$6,000
<i>IDDE</i>	\$20,000	\$30,000	\$30,000	\$30,000	\$30,000
<i>Good Housekeeping</i>	\$95,000	\$110,000	\$110,000	\$150,000	\$200,000
<i>Outfall Monitoring</i>		\$30,000	\$30,000	\$30,000	\$30,000
<i>Total Cost</i>	\$136,000	\$192,000	\$191,000	\$231,000	\$281,000

Where Do Go From Here

- What might it cost in the future?
- How will we pay for it?
- What do we do next?



What Might It Cost In The Future?



How Will We Pay For It?

- Currently Stormwater is funded from General Fund
 - Property Tax everyone pays based on property value
- Alternative is establishment of a Stormwater Utility
 - User fee based
 - Sewer, Water & Solid Waste

What Do We Do Next?

- Need to budget for FY 2010 cost increase
- Explore funding alternatives
 - NHDES grant to perform feasibility study on establishing a Stormwater Utility in Dover
 - Apply for grant
 - Hire a consultant to conduct study
 - Present report to City
 - Decide whether to pursue establishing a stormwater utility