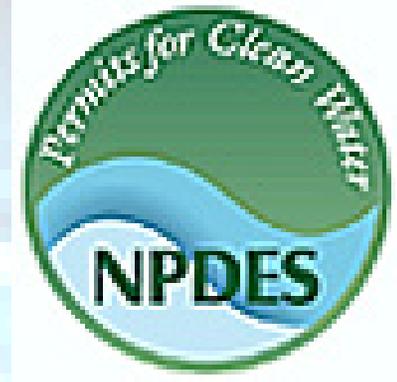


# City of Cambridge Stormwater Management Program

Phase II NPDES  
Stormwater Management Program  
Public Meeting  
March 31, 2009

# Brief Overview



- **National Pollutant Discharge Elimination System (NPDES) permit program authorized by the Clean Water Act (CWA)**
  - **1999: Phase II NPDES Stormwater Management Program**
    - Regulates stormwater discharges from small Municipal Separate Storm Sewer Systems (MS4)
    - Initial Notice of Intent submitted July 2003
    - Currently Completing Year 6
    - Awaiting release of new 5-year permit

# Stormwater Management Program

- Address 6 Minimum Control Measures
  1. Public education/outreach
  2. Public involvement/participation
  3. Illicit discharge detection/elimination
  4. Post-construction stormwater management
  5. Construction Site stormwater runoff control
  6. Pollution prevention/good housekeeping for municipal operations
- Develop and implement Best Management Practices to address each program area

# Program Objective

Reduce discharges of pollutants from a regulated stormwater system (MS4) to the *maximum extent practicable*, to protect water quality.

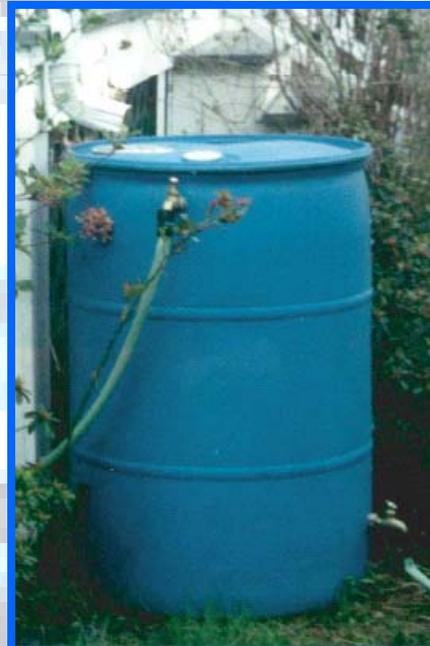
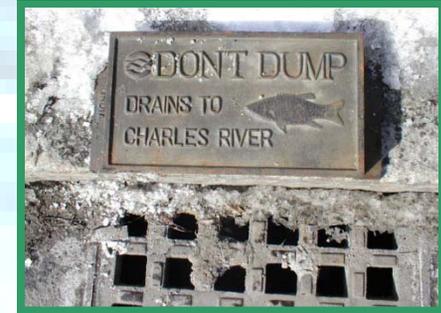


Runoff Discharges  
to Nearby Waters



# #1. Public Education & Outreach

- Web Site redesign and updates
- City Life Publication on Fresh Pond
- City View – Be Clean & Green
- Rain Barrel Promotion
- Curb Marker installation
- Meeting with Plant & Garden Club
- Science Festival
- Floodplain changes



## #2. Public Participation & Involvement

- FAR Summer Ecology Camp
- Household Hazardous Waste Collection
- Tri Community Meetings
- Team Green Sense
- King Open School compost



# #3. Illicit Discharge Detection & Elimination



Prohibit, identify and remove illicit connections and discharges

- Water quality sampling of Charles and Alewife watersheds
- Removal of Illicit Connections – 3
- Common Manhole Separation – 14 separated (CMH 4A, Remedial)
- Sparks St & Lechmere Canal IDDE protocol investigations



# #4. Construction Site Runoff Control



Reduce pollutants from construction sites that disturb  $\geq 1$  acre and significant projects

- Land Disturbance Permits – Erosion Control Plan - 6
- 3 Meetings with excavators and general contractors
- Weekly meetings with large contractors during March – Nov
- Hiring a compliance officer



# #5. Post Construction Stormwater Management



Address runoff from significant new and redevelopment projects through the use of BMPs

- Permit development
- Land Disturbance Permit's reviewed - 6
- Hiring a compliance officer
- Guidance document - DRAFT



# #6. Pollution Prevention & Good Housekeeping for Municipal Operations

- Street Sweeping contract – mechanical and vacuum
- 4,209 tons of street sweeping debris
- 2,555 catch basins cleaned (888 tons)
- Incorporating LID elements in our roadway projects



- ✓ Filterra Systems
- ✓ Porous asphalt
- ✓ Other



# Highlights for next permit year

- Vacuum Sweeping Demonstration Project
- BMP Efficiency Test – Western Avenue
- Whittemore Avenue CMH Separation
- Contract 8A Sewer Separation (54 acres)
- Agassiz Sewer Separation

# What we anticipate for the New NPDES Permit

- Draft issued – Spring 2009??
- Final – Summer 2009??
- Incorporation of state regulations
- Wet weather sampling of all outfalls
- More focus on LID, reduction of impervious areas

Comments/Questions

