Baltimore City Department of Public Works

What do we do?
Solid Waste Management

- Education
- Partner with neighborhood organizations
- Partner with NGOs
Innovative Solution: Municipal Trash Container Pilot Program

- To keep trash off the streets
- DPW provides to each household a 64 gallon trash container with wheels and attached lid.
- DPW provides a 25 gallon recycling bin.
- Testing in 2 areas of the City to determine feasibility
Innovative Solution: City-wide Street Sweeping

1,139 tons
9,579 miles swept in 4 months

Bold red lines: Existing AM/PM Routes
Other colored lines: Street sweeping routes

Baltimore City Department of Public Works
Drinking Water Infrastructure: Failures Impact Water Quality

About 1,000 water main breaks every year.

Water Main Breaks and Leaks

- Frequency
- Water Main Breaks
Innovative Solution: PCCP Strategy

- Plan to address a critical water asset: Pre-stressed Concrete Cylinder Pipe (PCCP)
- Developing long-term strategy based on risk-based planning
  - 10-year plan to inspect all PCCP in system
  - Prioritized pipe by criticality and condition
  - Will inspect pipe segments by risk score in zones and determine repair actions
- Recent success: By being proactive and using latest technology, we prevented a problem in 2012 on a 54-inch transmission main.
Wastewater

- Convey wastewater through 1,400 miles of sanitary sewer mains
- Treat 201 million gallons of wastewater per day at two wastewater treatment plants
- Wastewater comes from City and surrounding jurisdictions
- Plants regulated by State-issued discharge permits
- Permits include limits for nitrogen, phosphorus, suspended solids, etc.

WASTEWATER SERVICE AREA

Baltimore City Department of Public Works
Innovative solution: ENR Upgrades at both Wastewater Treatment Plants

- Constructing Enhanced Nutrient Removal facilities

- The projects will result in a total Nitrogen Reduction of 2.2 million pounds/year, which is 30% of the State of Maryland’s Chesapeake Bay Goal
Regulatory Solution: Consent Decree

- 2002 Consent Decree agreement with the City, the U.S. Environmental Protection Agency, & the Maryland Department of the Environment.

- The Consent Decree requires the City to eliminate sanitary sewer overflows, conduct a comprehensive evaluation & rehabilitation of its sewer system, & continually upgrade its sewer operations and maintenance.
Stormwater Management

- Aging Infrastructure.
- MS4 Permit: 20% Impervious Area Restoration in 5 years.

37th & Keswick (June 2012)  WS 263: Baltimore & Frederick Ave. (2009)
Regulatory Solution: MS4 Permit Compliance Programs

- Preventative inlet cleaning
- Routine waterway cleaning
- Inlet Screens
- Debris Collection Systems
Regulatory Solution: MS4 Permit Compliance Projects

- **Large Stormwater BMPS**
  - Ponds and wetlands treating large drainage areas. Potential tie-in with Growing Green Initiative.

- **Stream Restoration Projects**
  - 9 miles of restoration

- **Urban ESD Projects**
  - Micro-scale retro-fit projects on City property or in ROW. Estimate 110 locations. Potential tie-in to Tree Baltimore Program and Growing Green Initiative.

- **Impervious Removal / Greening Projects**
  - Equivalent to 30 ac of removal. Potential tie-in to Tree Baltimore Program and Growing Green Initiative.

- **Catch Basin Inserts & Large Debris Collection Systems**
Stormwater fee: Case Study in Cooperation

- Detailed study, analysis, financial planning
- Advisory taskforce of stakeholders
- Business forums
- Religious forums
- Small meetings with businesses, non-profits, institutions, advocacy orgs.
- Outreach meetings in 4 City quadrants
- City Council committee hearings and work sessions
- Public participation in hearings and public comment period
Political Pressures: Maintaining Your Course

- Make the right choice obvious and easy
- Clear vision and mission
- Be consistent (sometimes this means repetition of your message)
- Clearly define the risks and rewards
- Explain the impacts to the community
- Look to the future