

Mayor's Independent Audit Committee Report On Questions Related to Milwaukee Metropolitan Sewerage District (MMSD) Operations

Members of Committee:

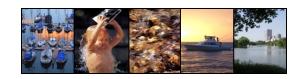
Don Theiler, King County Wastewater Treatment Division
Tony Earl, Former Governor of Wisconsin
Theresa Estness, Mayor of Wauwatosa
Nancy Frank, UW-Milwaukee, School of Architecture & Urban Planning
Ashanti Hamilton, Milwaukee Alderman
Wally Morics, City of Milwaukee Comptroller
RoseMary Oliveira, Citizen

Milwaukee Flood Task Force January 20, 2011 Response to Audit

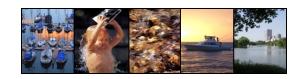


Basic Findings

- Stormwater flows into the sewer system are excessive and must be reduced.
- Public expectations exceed current regulatory requirements and current performance.
- A collaborative region-wide effort which goes beyond the authority and geographic boundary of the MMSD service area will be needed to deal with issues.

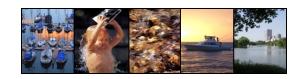


- 1. Reduce Stormwater Flow into System
 - Separate System
 - Private Property I/I
 - Regional flood management
 - Stormwater best management practices
 - Combined System
 - Private Property I/I
 - Regional flood management
 - Stormwater best management practices



2. Implement Other Actions

- Construct projects on the drawing boards
 - DNR Stipulation Projects will be completed in 2011
 - Have initiated 2020 Facility Plan Projects
- Fast flow treatment where appropriate
 - Performed pilot studies in 2008 and are in test mode in 2011



- 2. Implement Other Actions (cont'd)
 - Reduce Blending
 - Response to recommendation 1 will assist with this
 - Partial Separation
 - City of Shorewood is investigating this
 - City of Milwaukee has performed some initial separation



- 3. Provide Program for Financing
 - I/I reductions where cost effective
 - 2010 Private Property I/I Program
 - Institute excess flow charge
 - Technical Advisory Team discussions began in 2009, Milwaukee County ICC will consider in February 2011



- 4. Enforcement Needed
 - Eliminate illegal connections
 - Ongoing through work with municipalities
 - DNR should provide strong even handed enforcement
 - Ongoing, 2006 Stipulation with the municipalities



- Non-point and Stormwater Control Requires Attention
 - Non-point source pollution
 - GreenseamsSM
 - Water Quality Trading
 - Watershed Permitting
 - Stormwater control/Milwaukee region
 - Ongoing
 - Beaches
 - Bradford Beach revitalization



- 6. Public Information and Communication Needed
 - No single villain, no single cure ongoing
 - Nature of the water quality problem ongoing
 - SSO and CSO goals and impact ongoing
 - Nature of I/I and control goals ongoing
 - Non-point source and stormwater pollution goals ongoing



- United Water Services and MMSD
 Management Recommendations
 UWS addressed with 2008 Veolia Contract
 - Succession planning needed
 - Improved maintenance
 - Overflow incentives
 - Technical Environment Committee

MMSD - ongoing

- Establish Priorities for projects
- Ensure process and resources available
- Continue strong outreach program
- Use authority to implement I/I program



- 8. A Regional Watershed Approach Needed
 - Collaborative program to reduce stormwater flows into system (I/I control) - ongoing
 - Non-point/Stormwater control program ongoing
 - Specific measurable water quality goals
 - Total Maximum Daily Loads (TMDL) to be initiated in 2011
 - WDNR participation and resources ongoing