



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

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**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.



Recommendations

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



Recommendations

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**



Recommendations

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



Recommendations

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**



Recommendations

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



Recommendations

5. 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



Recommendations

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



Recommendations

7. 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



Recommendations

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**