

**Final Meeting Summary
Wet Weather Team Meeting #21
Tuesday, September 23, 2008
MSD Main Office, Louisville**

The Wet Weather Team (WWT), chartered by the Louisville and Jefferson County Metropolitan Sewer District (MSD), met on September 23, 2008, at MSD's main office. The objectives of the meeting were to:

- Review and discuss the projects and programs included in MSD's draft Integrated Overflow Abatement Plan (IOAP).
- Learn about the expected water quality benefits of the IOAP and the results of the technical team's analysis of the IOAP with respect to the Wet Weather Team's programmatic values.
- Review and discuss the anticipated costs and rate impacts of the IOAP, the project implementation schedule, and the draft funding plan.
- Review and identify changes needed to the draft Wet Weather Team stakeholder group support memo to the MSD Board and the vision for the IOAP.

Wet Weather Project Updates and Announcements

The following Wet Weather Project updates and announcements were noted at the meeting.

- Wind Storm: MSD Executive Director Bud Schardein said that MSD had 200 pump stations without primary power during the recent wind storm, yet MSD worked quickly to restore service and reduce overflows. Out of 240,000 customers, there were only 13 basement backups from the storm. MSD also used tanker trucks to haul over 1 million gallons of wastewater that would have otherwise been discharged into buildings or local waterways.
- Green Solutions and Summit Held in August 2008: Mr. Schardein noted that the Louisville and Jefferson County community will be seeing a lot more "green" solutions and water quality benefits over the period that the IOAP will be implemented. In addition to the necessary water quality improvements from the IOAP, there will also be changes to stormwater management. MSD organized a "summit" in August 2008 with the Louisville Mayor, the President of the University of Louisville, the Superintendent of Jefferson County Public Schools, and Louisville Metro Government Department Heads. At the meeting, Strand Associates presented a potential vision for green infrastructure in the community based on the analysis conducted by MSD's IOAP technical team. The agencies agreed to share information on capital projects and coordinate to improve water quality.
- Regional Best Management Practices Manual: MSD has been coordinating with other local communities on developing a regional manual on best management practices (BMPs) for stormwater management. MSD is working on updating the design manual, including incorporating some suggestions from WWT members.
- Partnership for a Green City: MSD is an active participant in the Partnership for a Green City, which now has a Stormwater Committee. As part of this effort, MSD is evaluating options to offer credits for stormwater reduction.
- EPA Green Infrastructure Workshop: Brian Bingham of MSD noted that EPA plans to host a national workshop on green infrastructure in Louisville this fall, probably in November. This workshop will be open to the public and will include presentations on a variety of topics.

- MS4 Program: MSD and other agencies that share responsibility for the municipal separate storm sewer system (MS4) program will be working on revisions to the permit. The draft MS4 permit for Lexington, KY is currently out for public comment; the draft MS4 permit for Louisville could potentially be released in November 2008. Brian Bingham of MSD offered to potentially host a meeting with WWT members and others who might be interested in providing input on the program.
- Beargrass Creek TMDL: Gary Swanson of CH2M HILL said that the Kentucky Division of Water released the draft total maximum daily load (TMDL) allocations for fecal coliform in Beargrass Creek. The draft TMDL report is out for public review; it is available from www.water.ky.gov. The draft TMDL calls for CSOs and non-point source pollution to each be reduced by 95 percent.

Project WIN Integrated Overflow Abatement Plan Discussion

Angela Akridge of MSD and Gary Swanson of CH2M HILL presented an overview of MSD's IOAP program. Highlights of the program include the following.

- CSO controls achieve approximately 95 percent wet weather capture. This level of control complies with EPA's CSO Policy, and remaining overflows do not "cause or contribute" to water quality standards violations.
- SSO controls eliminate all documented and suspected SSOs up to at least a 2-year design storm, removing an average of 290 million gallons of overflow volume per year (based on an average of 2005–2007). This level of SSO control accepted elsewhere in EPA Region 4.
- The IOAP includes 65 gray infrastructure projects across Jefferson County (including conveyance, storage, and treatment projects), along with inflow and infiltration (I/I) reduction and green infrastructure programs.
- The proposed construction and implementation schedule meets all consent decree requirements.
- The estimated capital costs are \$843 million, which is consistent with preliminary planning numbers.
- Estimates of consent decree rate impacts previously presented are consistent with projected consent decree cash flow.
- The IOAP is being leveraged to support other community water quality programs. Implementing the IOAP is a substantial and critical building block for overall water quality improvement.

As part of this presentation, Mr. Swanson and Ms. Akridge reviewed examples of "knee of the curve" cost-effectiveness graphs, the Green Cost Tool used in the design of green infrastructure components of the IOAP, the results of the technical team's evaluation of the IOAP in terms of the WWT's programmatic values, and the additional work remaining to complete the IOAP by the end of the year.

WWT members asked a number of clarifying questions in response to the presentation and also provided the following comments.

- A few WWT members asked whether more information was available about the numbers of projects that provided benefits to specific values, such as the numbers that were presented for the asset protection value. Gary Swanson of CH2M HILL said that those analyses could be done.
- In response to a question about project locations, members of the technical team referred to a map of CSO projects posted on the wall that had circles drawn on it showing the general areas where project sites could be located. In addition, in the Draft IOAP that will be released for public review there will be a project map for each project. Many of the potential project sites are on public properties.
- A few WWT members noted that it could be useful to have information about other project alternatives that were considered, but not selected. In answering questions from the public, it would

be helpful to be able to explain how the benefits of one project site (or project type) outweigh those of other alternatives.

- Several WWT participants commented on the need for a robust process to engage the public in areas that will be affected by IOAP projects. It will be important to have full disclosure and transparency.
 - MSD said that in addition to releasing the Draft IOAP for public comment and holding a series of Project WIN public meetings about it this fall, MSD would also do its regular practice of public outreach for every construction site (e.g., design meetings, “pardon our dust” meetings, etc.).
 - WWT members suggested potentially involving Metro Council members to assist with setting up public meetings and engaging with community leaders regarding IOAP projects.
- Some WWT members asked whether it would be possible for MSD to work with other agencies to increase the implementation levels for green infrastructure solutions beyond the levels shown in the Green Cost Tool. MSD noted that the green infrastructure incentive programs will be designed to leverage additional private and public investment in green infrastructure.
- Some WWT members noted that it will be important for MSD to monitor green infrastructure projects and report back to the community about the results they achieve. A few WWT members added that additional water quality monitoring would also be useful to show the program’s benefits.
- Other general comments WWT stakeholders made about the IOAP program included:
 - The IOAP shows the significant amount of work that MSD and the technical team have done. The IOAP is based on a systematic, thorough analysis, and the results are consistent with the community values the WWT identified at the beginning of the process.
 - There will be challenges ahead with the public process around the IOAP (hence the need for a robust process, as noted above); however, participants also expressed hope that the public will understand how both green and gray solutions work to improve water quality in the community.
 - Some WWT members noted that they appreciated that the program meets EPA’s baseline requirements and that the program is front-loaded with a heavy emphasis on green solutions.

After taking comment, the facilitation team asked members to provide their overall impressions of the IOAP as reflected in the presentations by Gary Swanson and Angela Akridge. All stakeholder group members present at the meeting indicated support for the IOAP, and many members were complimentary of the Technical Team and MSD for the work they had done on the plan.

Draft WWT Stakeholder Memorandum and Integrated Overflow Abatement Plan Vision

Rob Greenwood of Ross & Associates reviewed the major changes made to the draft WWT stakeholder support memo and IOAP vision since the version that was distributed to the Wet Weather Team in August 2008. These changes included incorporating information about the CSO, SSO, and green infrastructure projects proposed in the IOAP (project types, numbers, and control levels); listing the specific anticipated water quality benefits from the IOAP; adding details about MSD’s work to collaborate with other entities on community water quality improvements; and including a list of the stakeholder members of the WWT.

WWT comments on the draft WWT stakeholder support memo and IOAP vision included the following.

- A few WWT members commented on the opening paragraph of the draft WWT stakeholder support memo, which included language that the stakeholders had “unanimous support” for the IOAP.
 - WWT members noted that the WWT will not have had the time to review the full draft of the IOAP, so the opening paragraph should be revised to be more accurate with respect to the stakeholder group’s role (e.g., the WWT stakeholder group’s support could be tied to the vision for the IOAP, which the WWT developed, but not the entirety of the plan).

- WWT members also commented that the WWT's support for the IOAP program is based on the information that has been provided and on the WWT's current understanding of the program.
- A few WWT stakeholder commented that the opening paragraph should reflect strong support from the WWT for MSD's program, even if the word "unanimous" is not used.
- Several WWT stakeholders commented that there should be more than one rain garden project in MSD's IOAP. With regard to the proposed initial set of green infrastructure demonstration projects, WWT members asked, "Where's the 'wow' factor?"
 - A few WWT stakeholders suggested that green infrastructure projects should be placed where a lot of people would see them.
 - Some WWT participants said that it could also be useful to highlight the green projects that are already in the community to help raise awareness.
- A few WWT participants expressed interest in the community's MS4 stormwater program and the additional green projects would be undertaken in the context of MS4 implementation.

Observer Comments

Two observers commented at the WWT meeting, as follows.

- One observer asked a series of questions related to how the IOAP would address sewer overflows near and upstream of Cherokee Park and overflows in the Beechwood Village area. Members of the technical team and MSD responded by indicating that all SSOs would be eliminated with the IOAP, to a minimum control level of a two-year design storm. MSD's IOAP will also address CSOs near Cherokee Park and eliminate the need to pump overflows in Beechwood Village.
- Another observer commented that it was unclear whether there would be an ordinance or other regulations to enforce behavior changes. MSD indicated that the IOAP does not require an ordinance, since that would need to be adopted by Metro Government. MSD has researched ways to control I/I from private properties, including a potential ordinance. The technical team's analysis has shown that controlling private sources of I/I will be important to overall IOAP success.

Wrap Up and Next Steps

- The facilitation team will revise the draft WWT stakeholder support memo and IOAP vision based on the meeting's discussions, and will circulate revised drafts to WWT members for review the week of September 29, 2008. After hearing from WWT members, the facilitation team will work with MSD, the technical team, and WWT stakeholders to finalize the documents so they can be submitted to the MSD Board with the draft IOAP by October 15, 2008.
- The MSD Board will meet on October 27, 2008 to review the draft IOAP, and soon after the Board meeting MSD will release the draft IOAP for a 30-day public comment period.
- MSD will schedule a series of Project WIN public meetings and a formal public hearing during the public comment period. Wet Weather Team members are encouraged to attend the public meetings.
- The next Wet Weather Team meeting will be on December 4, 2008. Potential meeting topics include:
 - Review comments on the draft IOAP from MSD Board and members of the public;
 - Discuss proposed responses and changes to the IOAP; and
 - Discuss the final draft WWT stakeholder support memo and IOAP vision (for inclusion with the final IOAP MSD will submit to EPA and the Kentucky Division of Water by the end of 2008).

Meeting Participants

Wet Weather Team Stakeholders

Susan Barto, Mayor of Lyndon
Stuart Benson, Louisville Metro Council, District 20
Charles Cash, Louisville Metro Planning & Design Services Department
Allan Dittmer, University of Louisville
Laura Douglas, E.ON U.S. LLC
Faye Ellerkamp, City of Windy Hills
Arnita Gadson, West Jefferson County Community Task Force / Kentucky Environmental Quality Commission
Mike Heitz, Louisville Metro Parks Department
Tom Herman, Zeon Chemicals
Rick Johnstone, Deputy Mayor, Louisville Metro Mayor's Office
Bob Marrett, CMB Development Company
Kurt Mason, Jefferson County Soil and Water Conservation District
Judy Nielsen, Louisville Metro Department of Public Health and Wellness
Bruce Scott, Kentucky Waterways Alliance
Tina Ward-Pugh, Louisville Metro Council, District 9
David Wicks, Jefferson County Public Schools

MSD Personnel

Angela Akridge, MSD Regulatory Policy Manager
Brian Bingham, MSD Regulatory Management Services Director
Mark Johnson, MSD Director of Engineering/Operations and Chief Engineer
Bud Schardein, MSD Executive Director

Facilitation and Technical Support

Rob Greenwood, Ross & Associates Environmental Consulting
Gary Swanson, CH2M HILL
Jennifer Tice, Ross & Associates Environmental Consulting

Meeting Observers

Nathalie Andrews, Portland Museum
Susan Bahng, O'Brien & Gere
Gary Boblitt, HDR
Jim Bruggers, Courier-Journal
Kristen Crumpton, Tetra Tech
Samantha Davis, Louisville Metro Council, District 9
Steve Emly, MSD
Marion Gee, MSD
Kandris Goodwin, MSD
Justin Gray, MSD
Sue Green, MSD
Derek Guthrie, citizen
Teena Halbig, Floyds Fork Environmental Association (FFEA)
Jim Huiting, Tetra Tech

Clarence Hixson, citizen
Clay Kelly, Strand Associates
Tim Kraus, O'Brien & Gere
John Lyons, Strand Associates
Chad McCormick, Stantec
Matt Meunier, City of Jeffersontown
Phil Scott, O'Brien & Gere
Wesley Sydnor, MSD
Ram Vliddagiri, The Corradino Group
Major Waltman, Louisville Olmstead Park Conservancy (LOPC)

Meeting Materials

- Agenda for the 9/23/08 WWT Meeting
- Wet Weather Team Meeting Schedule (updated September 2008)
- Summary of the 7/15/08 WWT Meeting
- WWT Idea List Crosswalk
- Draft Post Construction Compliance Monitoring Plan
- Draft IOAP Public Program Plan
- Project WIN Integrated Overflow Abatement Plan Presentation
- Integrated Overflow Abatement Plan Project Summary
- CSO Long Term Control Plan Recommended Projects
- Sanitary Sewer Discharge Plan Recommended Projects
- Green Cost Tool – Combined Sewer Area Evaluation
- IOAP Preferred Project List Draft Schedule
- Draft WWT Stakeholder Support Memo and IOAP Vision (9/23/08 Draft)