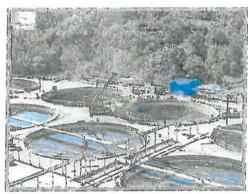
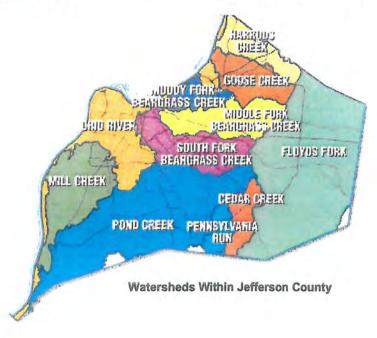
Wet Weather Team Project

Meeting Materials

01.05.0228.12 WWT Stakeholders Meeting # 28 5/8/2012















Stakeholder Group Agenda May 8, 2012 5:30 p.m. – 8 p.m.

- 5:30 5:45 Dinner (Wet Weather Team only, please)
- 5:45 6:00 Welcome, Introductions and MSD Updates Brian Bingham, MSD Regulatory Services Director
- 6:00 6:05 Agenda Review and Stakeholder Meeting "Ground Rules", Gary Swanson, Facilitator, CH2MHill
- 6:05 6:25 IOAP Implementation Progress Report Steve Emly, MSD Interim Engineer Director
- 6:25 6:45 WWT Stakeholder Group Revised Draft Charter Review Angela Akridge, Project WIN Program Manager
- 6:45 7:00 Proposed IOAP Sewer Overflow Project Modifications Justin Gray, Sr. Technical Services Engineer
- 7:00 7:10 Proposed IOAP Modification Revision Process Gray/Akridge
- 7:10 7:20 May 2012 IOAP Public Input Meetings Gray/Akridge
- 7:20 7:30 Observer Comments
- 7:30 7:45 Wrap-up and Adjourn

The Wet Weather Team (WWT) Stakeholders Group, met on May 8, 2012, at MSD's Main Office Building. The objectives of the meeting were to:

- · Provide an update on Integrated Overflow Abatement Plan (IOAP) implementation progress
- Discuss draft of the revised Stakeholder Group Project Description that is the basis for the Stakeholder Group roles in MSD's Amended Consent Decree Response
- Present the proposed process and schedule for revising the approved IOAP in accordance with the adaptive management concepts presented in the IOAP.
- Review the schedule and planned topics for the next round of Project Review and Public Input Meetings planned for May 2012.

MSD Updates

Brian Bingham, Regulatory Services Director welcomed the group and thanked them for their continued participation. Greg Heitzman, MSD's Interim Executive Director provided brief comments on the MSD response to the State Audit, and the progress of the Mayor's Task Force on Utility Efficiency. Mr. Heitzman noted MSD will soon have seven Board members with less than a year experience, which presents a challenge to stay focused on important issues like the Consent Decree. He said MSD's response to the State Audit is well underway and will meet the required completion date of December 31, 2012. The Mayor's Task force will report to the Mayor on May 15, with an expectation that the recommendations will include some consolidation of services, with a long-term option to consider merger of MSD/LWC.

IOAP Implementation Progress Report

Steve Emly, Interim Chief Engineer, presented an overview of progress on IOAP implementation. A copy of his presentation is attached.

A Stakeholder Group member asked about site restoration of IOAP projects, noting that the Sinking Fork Interceptor site restoration was essentially grass, with no consideration of habitat creation. He asked if habitat restoration or creation was being considered in the IOAP projects, for example the Buechel Basin. He reminded MSD of the previous Stakeholder Group recommendation to use IOAP project site restoration to make the sites better than they were before, and not just do the minimum to prevent future erosion.

Steve Emly noted that full-scale site restoration and habitat creation can be very expensive, and IOAP budgets did not include elaborate habitat creation. He acknowledged that MSD's tendency has been to either spend a lot of money on comprehensive habitat restoration or not spend any at all. Current site restoration efforts are typically aimed at erosion protection, visual acceptability to the surrounding neighborhood, and low maintenance. Some middle ground could be considered that doesn't add a lot of unrelated cost but did consider habitat in addition to erosion control and visual appearance. The Sinking Fork site was originally not high-value wildlife habitat, so the final site restoration is an improvement in appearance even if it didn't create habitat. On the Buechel Basin there will be little opportunity to restore disturbed habitat, as 80% of the site north of the ditch will used for the basin, and the area south of the ditch will not be disturbed. Brian Bingham promised to get back with the group member to review Buechel Basin site plans and see if there are opportunities to incorporate some measure of habitat restoration in the site restoration, and to discuss further how low-cost features could be added to standard site restoration concepts to improve habitat for wildlife.

Draft Charter Revision Review

Angela Akridge reviewed the original two-page project description that was the basis for the Stakeholder Group Charter. She also discussed the draft changes that resulted in a 6-page draft dated May 7, 2012, that updated the project description to reflect process and progress to date and addressed the approach for incorporating the Stakeholder Group in the IOAP implementation moving forward. Stakeholder Group members were asked to read the draft revisions and provide comments. We will discuss and finalize this revised document at the next Stakeholder Group meeting, which will likely be in September/October.

Proposed IOAP Modifications

Justin Gray presented an overview of the proposed modifications to the approved IOAP, and the process and schedule we are following to get an regulatory approval for this modification. Included in the overview was a brief discussion of MSD's approach to replacing gray infrastructure with green infrastructure in the CSO 190 and CSO 130 basins.

In the CSO 130 basin the costs to control CSOs through green infrastructure are approximately half those of the costs to control CSOs with a gray storage basin. The green infrastructure practices can be installed and connected to impervious surfaces with relatively few legal agreements with property owners required. MSD has the CSO 130 green infrastructure improvements out for bid now. MSD has a cooperative agreement with EPA's Office of Research and Development and the University of Louisville to provide intense monitoring of the long-term performance of these green practices, and their response to maintenance, etc.

In the CSO 190 basin the costs for green and gray are essentially the same, but the green approach has operating cost advantages since the costs to maintain the green infrastructure is estimated to be much less than the cost to treat the wastewater captured in the gray storage basin. MSD's concern in the CSO 190 basin is the extensive number of partners and legal agreements needed with property owners to make implementation of this approach possible. MSD is still evaluating the implementability of the green infrastructure approach in the CSO 190 basin. Justin's presentation and several handouts that detail the project modifications are attached.

A stakeholder asked if MSD had intended an intensive public outreach effort for individual residents in the CSO 190 area, and if there was any way to track and display individual homeowner participation in some form of green infrastructure. Tina Ward-Pugh noted that in her council district she worked with residents to develop a web-based tracking tool to do exactly what was suggested. After discussion it was suggested that MSD work with the District 9 Green Triangle initiative to see if the tracking tool they developed could be made available to other community groups or neighborhood associations, possibly through an MSD-hosted server. MSD will follow up on that. It was also noted during this discussion that MSD's incentives program has been very well received in the community, with requests for incentive partners exceeding MSD's budgeted amounts for the incentives program. As of today it is estimated that green infrastructure constructed through demonstration or incentives are able to control approximately 100 million gallons of storm water runoff per year in the combined sewer area.

Gary Swanson noted that in 2008 the Stakeholder Group prepared a letter of support for the IOAP submittal. This formal expression of support was appreciated by the MSD Board, and carried a lot of

weight with regulatory reviewers as well. Gary noted that we will be asking for a similar expression of support for the IOAP modifications near the end of 2012.

May 2012 IOAP Public Meetings

Angela Akridge presented the date, time, location, and agenda overview for the three Project Review and Public Input meetings planned for May, 2012. A copy of Angela's presentation is attached.

One of the stakeholders noted that the project review meeting held in January was well publicized, well attended and very well run. Participants kept focused on the IOAP project issues and gave MSD valuable feedback. He also noted the letter in the Courier-Journal complementing MSD in its handling of the Hikes Lane Interceptor project.

Observer Comments

An observer asked about a statement Justin Gray made about support provided by MSD's Plumbing Modification Program relative to downspout disconnects. Follow-up occurred after the meeting.

Meeting Participants

Wet Weather Team Stakeholders

Steve Barger, organized labor (retired)

Susan Barto, Mayor of Lyndon

Stuart Benson, Metro Council, District 20

Allen Ditmer, University of Louisville

Tom Herman, Zeon Chemicals

Bob Marrett, CMB Development Company

Kurt Mason, JC Soil and Water Conservation District

Jim Mims, Louisville Metro, Planning & Design Services Department

Lisa Santos, Irish Hill Neighborhood Association

Bruce Scott, Kentucky Waterways Alliance

Tina Ward-Pugh, Metro Council, District 9

MSD Wet Weather Team Members

Angela Akridge, MSD Project WIN Program Manager

Brian Bingham, MSD Regulatory Services Director

Steve Emly, MSD Interim Chief Engineer

Greg Heitzman, MSD Interim Executive Director

MSD Presenters

Justin Gray, Senior Technical

Technical Support

Gary Swanson, CH2M HILL

Meeting Observers

Julia Muller, MSD

Scott Spears, LD&D

Janet Pinkson, Environmental Quality Commission (sitting in for Arnita Gadsen)

Other observers attended but did not sign in

Meeting Materials

- May 8, 2012 Meeting Agenda
- Hard copy of all PowerPoint presentations
- Wet Weather Team Ground Rules (Updated May 9, 2008)
- WWT Project Description (June 2006)
- WWT Project Description (Revised May 7, 2012)
- 2012 Draft LTCP Project Re-Assessment (May 8, 2012)
- 2012 Draft SSDP Project Re-Assessment (May 8, 2012)
- Certification Dates for IOAP Projects (May 7, 2012)

Louisville and Jefferson County Metropolitan Sewer District Wet Weather Team Ground Rules Final Version, 8/15/06 (updated 5/9/08)

A. Participants and Participation

- Wet Weather Team (WWT) members are "participants." The Wet Weather Team consists of MSD
 personnel and a subgroup of stakeholders that will provide guidance to MSD. MSD personnel may
 participate in WWT discussions, but will not be included in decisions regarding stakeholder guidance
 to MSD. All participants in the stakeholder subgroup have equal representation.
- The facilitation team is a neutral third party with no stake in the outcome of the discussions. The facilitation team, although under contract to MSD, works for the process and treats all Wet Weather Team participants as equal "clients."
- To ensure an effective process, participants agree to make every effort to attend all meetings. If an alternate is needed, the suggested alternate will be recommended to and discussed with MSD in advance to ensure there will be appropriate balance and representation on the Wet Weather Team.
- 4. Observers are welcome at meetings, but are not participants in the Wet Weather Team's deliberations. A portion or portions of each meeting (not to exceed 15 minutes each) will be dedicated to receiving observer comments. Each observer's oral comments must not exceed two minutes, although written comments to the WWT and/or MSD will be welcome throughout the process.
- MSD will consider requests from participants to invite outside experts to speak at Wet Weather Team
 meetings on relevant topics; however, MSD reserves the option of providing additional or alternative
 perspectives at meetings to ensure that the full range of perspectives and factual evidence is provided.
- 6. Wet Weather Team members are expected to participate through the entire process; however, any participant may withdraw from the process at any time without prejudice. In the event a participant chooses to withdraw, he or she should communicate the reasons for withdrawal and may be replaced by MSD with another representative with similar expertise and experience.

B. Meeting Discussions and Procedures

- 1. Each participant agrees to honest and direct communications.
- Participants are encouraged to frame observations in terms of needs and interests, not in terms of positions; opportunities for finding solutions increase dramatically when discussion focuses on needs and interests.
- Decisions will be made during meetings; if an alternate attends a meeting, he or she must be fully briefed on Wet Weather Team deliberations and able to participate in decision making.
- The facilitator will manage the discussions, using more or less structure depending on the nature and tenor of the discussions.
- Participants and/or the facilitator may request a caucus break at any time during the meeting. Individual caucus breaks are not to exceed 15 minutes.

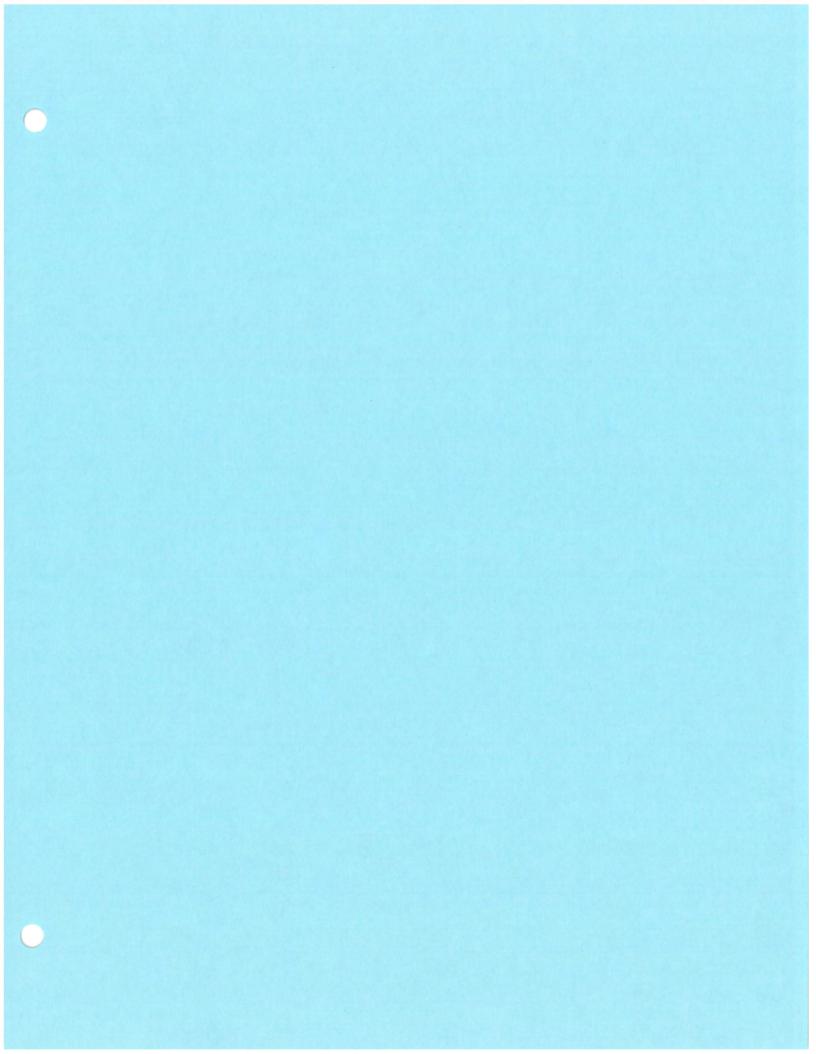
- 6. A general summary of meeting discussions will be prepared; observations contained in the summary will not be individually attributed. Participants can, however, submit attributed comments directly to MSD and/or the MSD Board for consideration; all written comments will be made available publicly.
- 7. All meetings will start and finish on time.

C. Desired Outcomes

- The stakeholder subgroup of the Wet Weather Team is a "consensus seeking" body. The desired
 outcome is one in which all stakeholder subgroup members support the products and are willing to say
 so publicly. Full consensus, however, is not necessary to enable the MSD Board to have a balanced
 and well-informed final decision process.
- The perspectives of all WWT stakeholders—particularly in cases where consensus is lacking—will be gathered throughout the plan development process and made available to the MSD Board for consideration during their final decision making.
- To help the process stay on track, agreed-upon, non-mainstream issues may be recorded and dealt with at a later date or referred to other, more appropriate forums.

D. Communications Outside of Wet Weather Team Meetings

- 1. Individual observations are not for attribution outside the meeting.
- Participants are encouraged to refer inquiries from the press to the facilitation team or to final meeting summaries or other final Wet Weather Team materials. Individuals who choose to speak with the press agree to limit remarks to personal views and to refrain from characterizing the views of, or attributing comments to, other participants or the full Wet Weather Team.
- Wet Weather Team participants may share information about the project's process and activities with peers outside the Team, as long as the communications make clear that the information is not an official product of the Team.
- 4. Wet Weather Team participants may share draft documents and communicate about the project's progress with managers and co-workers within their own organizations. Wet Weather Team participants agree to consult with the Team before sharing draft documents outside of the Team or their immediate co-workers and managers.
 - Certain types of draft materials that contain pre-decisional information that is highly sensitive (e.g., potential sites for constructed facilities) will be labeled "draft: working documents not for release."
 - Documents labeled "not for release" will not be shared during Wet Weather Team stakeholder meetings. Information from "not for release" documents may, however, be generalized or presented at a higher level of detail at WWT meetings if necessary to support WWT deliberations.
 - o If Wet Weather Team participants would like to review "not for release" documents individually outside of WWT meetings, MSD will make the documents available for WWT members to review at MSD's office in MSD's presence. WWT members will be asked to sign a confidentiality agreement before reviewing "not for release" documents at MSD.



Louisville and Jefferson County Metropolitan Sewer District Wet Weather Team Project Description June 6, 2006

Background

In 2005, the Louisville and Jefferson County Metropolitan Sewer District (MSD) entered into a Consent Decree with the U.S. Environmental Protection Agency and the Kentucky Environmental and Public Protection Cabinet (EPPC) regarding discharges from MSD's sewer system and alleged violations of the federal Clean Water Act. Like many municipalities nationwide, Louisville has a sewer system that collects rainwater runoff along with sewage and industrial wastewater. During storms and other large wet weather events, the volume of wastewater in the system exceeds the capacity of collection pipes and wastewater treatment plants, resulting in releases of untreated wastewater diluted with stormwater—called combined sewer overflows (CSOs)—directly into nearby water bodies. In addition to CSOs, Louisville has had problems with sanitary sewer overflows (SSOs), which are unintentional discharges of raw sewage from separate sanitary sewers that transport wastewater to treatment plants. SSOs can occur as a result of severe weather events, improper connections to the sewer system, and other sewer operation and maintenance conditions. CSOs and SSOs affect the water quality of local watersheds, can threaten public health, and can cause property damage through, for example, basement back-ups.

Under the terms of the Consent Decree, MSD must develop a Long Term Control Plan for CSOs and a Sanitary Sewer Discharge Plan for SSOs by December 31, 2008. The Consent Decree, with enthusiastic support from MSD, contains a provision for stakeholders to participate in the development and implementation of these plans. This "Wet Weather Team" (WWT) will include MSD personnel as well as community representatives and local elected officials. Under the Consent Decree, the WWT "shall include all entities who have a stake in the program outcome, and should be sufficiently multidisciplinary to address the myriad of engineering, economic, environmental, and institutional issues that will be raised during the implementation of the remedial measures under this Consent Decree."

Composition and Role of the Wet Weather Team

MSD has structured the WWT to include a subgroup of individual stakeholders recognized as community "opinion leaders" associated with environmental advocacy, business and industry, elected official, local government agency, community neighborhood, recreation, public health, environmental justice, and organized labor interests. WWT stakeholders will not formally represent their specific affiliated organization (formal representation can inhibit the input and timeliness of participation), but rather seek to provide input reflective of the broad interest area in which they lead.

MSD will seek guidance from the WWT stakeholder subgroup on MSD's investment choices in the design of an integrated Wet Weather Program that will comply with all applicable regulatory requirements and will minimize the impacts of wet weather discharges on water quality, aquatic biota, and human health. MSD and the Louisville and Jefferson County community will need to invest substantial amounts of money in wet weather controls and management efforts to meet our compliance obligations under the Consent Decree and the Clean Water Act. The WWT will help to ensure that these investments are made wisely and in ways that best meet the needs of the local community. During the WWT stakeholder process, MSD will also be conducting other activities related to planning and implementation of the Clean Water Act and the Consent Decree, including developing discharge abatement plans, asset management activities, water quality monitoring, and related wet weather control efforts. MSD may ask WWT stakeholders for input regarding these activities.

The Wet Weather Team Stakeholder Process

MSD plans to use a values-based risk management process to obtain input from WWT stakeholders on MSD's investment decisions for the final Long Term Control Plan for CSOs and the final Sanitary Sewer Discharge Plan for the Louisville and Jefferson County area. This structured process will allow WWT members to systematically consider the importance of potentially competing community values and the technical and management options available to achieve compliance and address community needs. This should improve the outcomes of the Wet Weather Program, engender deeper community understanding of local wet weather management challenges, and encourage community support for the costs and benefits that will result from implementation of the program. Prior to submittal of the final plans to EPA and Kentucky EPPC on or prior to December 31, 2008, MSD will need to provide final draft plans to the MSD Board for consideration and adoption. The MSD Board consists of eight citizens appointed to represent the interests of MSD customers in Louisville and Jefferson County.

A neutral third-party facilitation team will support the WWT stakeholder process, while MSD staff and engineering contractors will provide analytic support and other technical resources for the WWT. Although the facilitation team will be under contract to MSD, its "clients" will be the individual members of the WWT and the wet weather planning process as a whole. The WWT stakeholder subgroup will be a "consensus seeking" body, although progress and ultimate MSD decision-making will not be strictly tied to consensus. The facilitation team will ensure that WWT member perspectives—particularly in cases where consensus is lacking—are gathered throughout the plan development process and made available to the MSD Board to ensure a balanced and well-informed final decision process.

Expectations for Wet Weather Team Participants

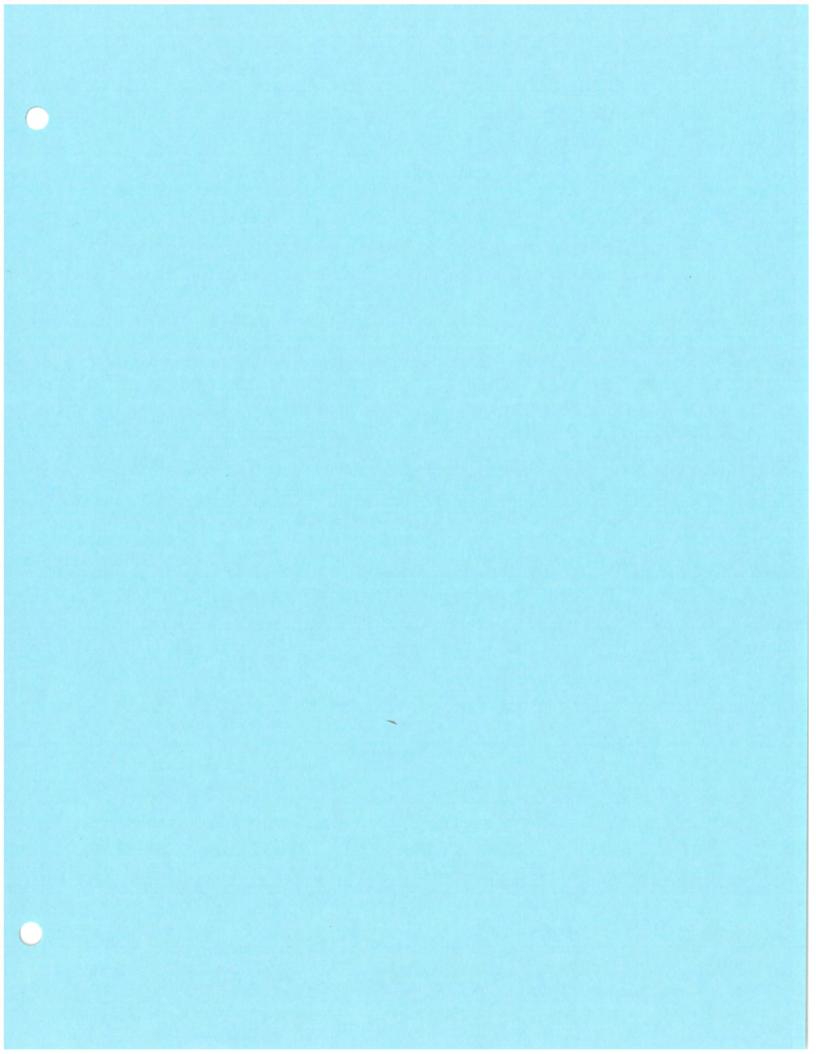
Under the Wet Weather Consent Decree, MSD faces strict deadlines for producing deliverables and significant penalties for noncompliance. The WWT stakeholder process must, as a result, move forward at a regular, steady pace for it to be successful. It is anticipated that WWT meetings will occur approximately every four to six weeks from June 2006 through May 2008. The majority of meetings will take place from 4:00 PM to 8:00 or 9:00 PM with dinner provided to WWT members.

For More Information

For more information about MSD's Wet Weather Project and the WWT stakeholder process, please contact Rob Greenwood (<u>rob.greenwood@ross-assoc.com</u>) or Jennifer Tice (<u>jennifer.tice@ross-assoc.com</u>) from the facilitation team at 206-447-1805, or Angela Akridge (<u>AKRIDGE@msdlouky.org</u>) at MSD at (502) 540-6136. MSD's website is http://www.msdlouky.org/.











Background Documentation of WWT Activity through Regulatory Approval of the IOAP

In 2005, the Louisville and Jefferson County Metropolitan Sewer District (MSD) entered into a Consent Decree with the U.S. Environmental Protection Agency (EPA) and the Kentucky Department for Environmental Protection (KDEP) regarding discharges from MSD's sewer system and alleged violations of the federal Clean Water Act. The Consent Decree was amended by Federal Court on April 15, 2009. Like many municipalities nationwide, Louisville has a sewer system that collects rainwater runoff along with sewage and industrial wastewater. During storms and other large wet weather events, the volume of wastewater in the system exceeds the capacity of collection pipes and wastewater treatment plants, resulting in releases of untreated wastewater diluted with stormwater—called combined sewer overflows (CSOs)—directly into nearby water bodies. In addition to CSOs, Louisville has had problems with sanitary sewer overflows (SSOs), which are unintentional discharges of raw sewage from separate sanitary sewers that transport wastewater to treatment plants. SSOs can occur as a result of severe weather events, improper connections to the sewer system, and other sewer operation and maintenance conditions. CSOs and SSOs affect the water quality of local watersheds, can threaten public health, and can cause property damage through, for example, basement back-ups.

Under the terms of the Amended Consent Decree, MSD developed and submitted the Integrated Overflow Abatement Plant (IOAP) by December 31, 2008. This integrated plan contained a Long Term Control Plan (LTCP) for CSOs and a Sanitary Sewer Discharge Plan (SSDP) for SSOs. The Amended Consent Decree, with enthusiastic support from MSD, contained a provision for Stakeholder Group to participate in the development and implementation of these plans. This "Wet Weather Team" (WWT) included MSD personnel as well as community representatives and local elected officials (Stakeholder Group). Under the Amended Consent Decree, the WWT "shall include all entities who have a stake in the program outcome, and should be sufficiently multidisciplinary to address the myriad of engineering, economic, environmental, and institutional issues that will be raised during the implementation of the remedial measures under this Amended Consent Decree." Recognizing that the IOAP would define a program representing a major community investment, MSD subsequently expanded the role of the WWT Stakeholder Group to assist in developing a framework for decision-making that included consideration of community values, priorities, and level of service in determining required community wet weather management investments.

MSD first chartered the WWT Stakeholder Group in July 2006. The group's charge, as explicitly described in the formal charter, was to assist with the development of the integrated overflow abatement program that complies with the Clean Water Act (CWA) requirements and addresses the community's problems with wet weather sewer overflows. The WWT Stakeholder Group Charter stated that the group would provide guidance on the development of an integrated Wet Weather Program (later referred to as the IOAP) that would comply with applicable regulatory requirements and would minimize the impacts of wet weather discharges on water quality, aquatic biota, and human health. Under the Charter, the WWT Stakeholder Group was further charged with providing input into a plan for funding MSD's Wet Weather Program, and





providing input into a program for public information, education, and involvement. Other areas of involvement for the WWT Stakeholder Group included advising MSD on overall investment, policy, and performance choices in the development and implementation of the IOAP, as well as specific components of discharge abatement plans including asset management activities, water quality monitoring, and related wet weather control efforts.

The WWT Stakeholder Group process focused on gaining explicit, consensus-based support of the IOAP program elements. A focused IOAP "vision" was developed in close consultation with the WWT Stakeholder Group members, encompassing nine pages of text and covered the following IOAP elements:

- Expected water quality benefits of the IOAP;
- Review of the values-based performance evaluation framework used to develop the IOAP;
- Control levels for combined and sanitary sewer overflows;
- A high-level description of the project alternatives selected for inclusion in the IOAP;
- A review of the public information, education, and involvement program;
- An outline of the post-construction compliance monitoring program;
- · A discussion of future development considerations; and
- An overview of the IOAP funding plan.

In addition to the vision document, the Stakeholder Group indicated their explicit support for the IOAP through the development of a stakeholder transmittal memorandum. This memorandum came from the WWT stakeholder members and was addressed to the MSD Board. The memorandum described the WWT composition and charge and the results of the WWT Stakeholder Group's deliberations. In particular, the memorandum identified four "pillars" of consensus reached by the WWT Stakeholder Group:

- Support for the community values-based analytic framework that was the underpinning of the IOAP alternatives selection process;
- Support for the application of the analytic process, based on their review of example outputs, in the development of the Final IOAP;
- Support for the overall IOAP vision (covering the anticipated water quality benefits and program funding needs); and
- Support for the overall mix of IOAP wet weather-related projects.

This memorandum acted as the stakeholder support final documentation of for the IOAP and sent a clear, concise, and firm message of support to the MSD Board and the Louisville community.

The participation the WWT Stakeholder Group in developing a project selection and prioritization process was directly responsible for MSD achieving regulatory compliance with a plan that could easily have cost us considerably more, if we had followed the approach used by other communities. The process utilized has been cited by USEPA Region 4 as a model for other communities to follow.





Original Composition and Role of the WWT

MSD structured the WWT Stakeholder Group to include a subgroup of individual Stakeholder Group recognized as community "opinion leaders" associated with environmental advocacy, business and industry, elected official, local government agency, community neighborhood, recreation, public health, environmental justice, and organized labor interests. It was explicitly stated in the Group charter that members of the WWT Stakeholder Group do not formally represent their specific affiliated organization (formal representation can inhibit the input and timeliness of participation), but rather seek to provide input reflective of the broad interest area in which they lead.

MSD sought guidance from the WWT Stakeholder Group on investment choices in the design of an integrated Wet Weather Program that complies with all applicable regulatory requirements and minimizes the impacts of wet weather discharges on water quality, aquatic biota, and human health. MSD and the Louisville and Jefferson County community will be investing substantial amounts of money in wet weather controls and management efforts to meet our compliance obligations under the Amended Consent Decree and the Clean Water Act. The WWT Stakeholder Group helped to ensure that these investments will be made wisely and in ways that best meet the needs of the local community.

Original WWT Stakeholder Group Process

A values-based risk management process was utilized to obtain input from the WWT Stakeholder Group on MSD's investment decisions for the IOAP. This structured process allowed the WWT Stakeholder Group members to systematically consider the importance of potentially competing community values and the technical and management options available to achieve compliance and address community needs. The process was open and consensus seeking. However, the schedule to complete the IOAP, as required by the Amended Consent Decree, necessitated clear agreement between MSD and the WWT Stakeholder Group that decisions would be made in a timely manner with the plan completed in strict accordance with Amended Consent Decree deadlines. An important result of this agreement was MSD's establishment of the group as a "consensus seeking" body. The overall desired outcome was full Stakeholder Group support of the IOAP, but group members understood that MSD would need to move forward and make decisions even in the absence of consensus. The Charter made clear that, whenever consensus was lacking, the full range of views would be documented and made available to the MSD Board.

Under the guidance of professional facilitation, MSD and the WWT Stakeholder Group met 22 times between July 2006 and December 2008. Each meeting - which typically ran from 4:30 to 8:30 PM - had a set agenda that included presentations from MSD, the technical team, and the facilitators. The content of presentations included the most recent developments and progress on projects, rates issues, and other relevant topics. Each meeting also afforded the opportunity for the WWT Stakeholder Group to engage each other in discussion and pose questions and raise issues to MSD and the consultant team.





All meetings were open to the public, and attended at various times by MSD staff and contractors, neighborhood representatives, members of the press, and other interested parties. These guests were allowed to observe the WWT Stakeholder Group meeting, and were afforded the opportunity to provide comments at designated times. WWT Stakeholder Group meeting summaries, presentations, handouts, and documents are posted on the Project WIN website under the WWT Document Repository. Documents are named and organized consistent with the WWT meeting in which the document was provided.

WWT Stakeholder Group Expectations Moving Forward

At the last regularly scheduled WWT Stakeholder Group meeting in December 2008, it was assumed that the group's work was complete. However, there is an additional opportunity and need to continue active participation. While it was believed the WWT Stakeholder Group had served the purpose of its original charter with the successful completion of the IOAP, the language in the Amended Consent Decree requires continuation of the WWT through the entire implementation phase, thereby implying continuing some form of a WWT Stakeholder Group.

The challenges facing the community over the next few years include developing and gaining approval for a modification to the IOAP that will improve overflow abatement performance at the same estimated cost. In addition, three quarters of all the IOAP projects will move into the construction phase over the next few years. A smaller group of the original WWT Stakeholder Group will provide considerable value by serving as a sounding board to ensure the modifications to the plan and specific project designs remain true to the values, priorities and financial plan previously developed and approved by the regulators. Another critical area where the WWT Stakeholder Group will help is in guiding our continually evolving public education, outreach and input approach. In the past the WWT Stakeholder Group gave us valuable insights into how to reach the public. As the implementation phases change, continued input in this very important area will be needed.

It is in the best interest of the community to continue working with the same people to leverage the 2 ½ year education process that occurred during development of the IOAP. There simply is not time in the schedule to bring new members up to speed on all that has previously occurred to meet the schedule commitments identified in the IOAP.

Prior to submittal of the IOAP 2012 Modifications to EPA and KDEP by late 2012/early 2013, MSD will need to provide final draft plans to the MSD Board for consideration and adoption. The MSD Board consists of eight citizens appointed to represent the interests of MSD customers in Louisville and Jefferson County.

A third-party engineering contractor will support the WWT Stakeholder Group process, while MSD staff will facilitate and provide analytic support and other technical resources. This same values-based risk management decision-making process will be used to develop the IOAP 2012 Modifications. The WWT Stakeholder Group will be a "consensus seeking" body, although progress and ultimate MSD decision-making will not be strictly tied to consensus. The





facilitation team will ensure that the WWT Stakeholder Group member perspectives—particularly in cases where consensus is lacking—are gathered throughout the plan modification process and made available to the MSD Board to ensure a balanced and well-informed final decision process.

Under the Amended Consent Decree, MSD faces strict deadlines for producing deliverables and noncompliance will result in significant penalties. The WWT Stakeholder Group process must, as a result, move forward at a regular, steady pace for it to be successful. It is anticipated that the WWT meetings will occur twice per year. The majority of meetings will take place from 5:30 PM to 8:30 PM.

Wet Weather Team Stakeholder Group Membership Moving Forward

Per the Amended Consent Decree, the WWT includes "MSD personnel such as wastewater treatment plant operators and engineering personnel, local political officials, the general public, including rate payers and environmental interests. Private consulting resources are also included." Since the WWT will remain active through the year 2024, it is likely that attrition of members will occur. If any of the categories required by the Amended Consent Decree become under-represented, MSD will replace them to ensure that all requirements are met.

If replacement of the Wet Weather Team members is required, under Paragraph 23 of the Amended Consent Decree it is the responsibility of the Regulatory Services Director to select those replacements. Consistent with the original selection criteria, a replacement should be a recognized community opinion leader associated with the specific interest group needing representation. The replacement should also be free of any personal or organizational conflict of interest per the MSD Ethics Policy governing MSD staff. (Even though the Stakeholder Group members are not MSD staff, it is deemed important for the credibility of the group that no real or perceived conflicts of interest exist). In addition the replacement should not be a party to any active legal action against MSD or any other members of the WWT, or in the last 10 years have been a party to a legal action against MSD or any other member of the WWT which was lost, dismissed, or voluntarily abandoned without a settlement.



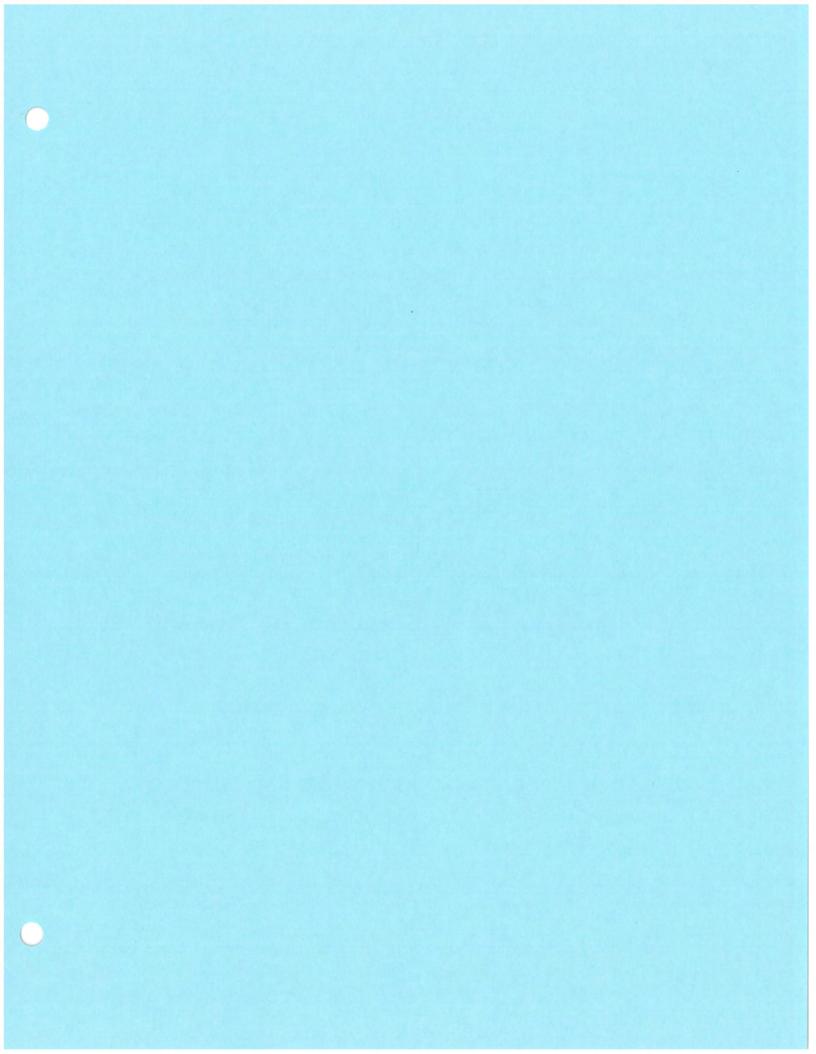


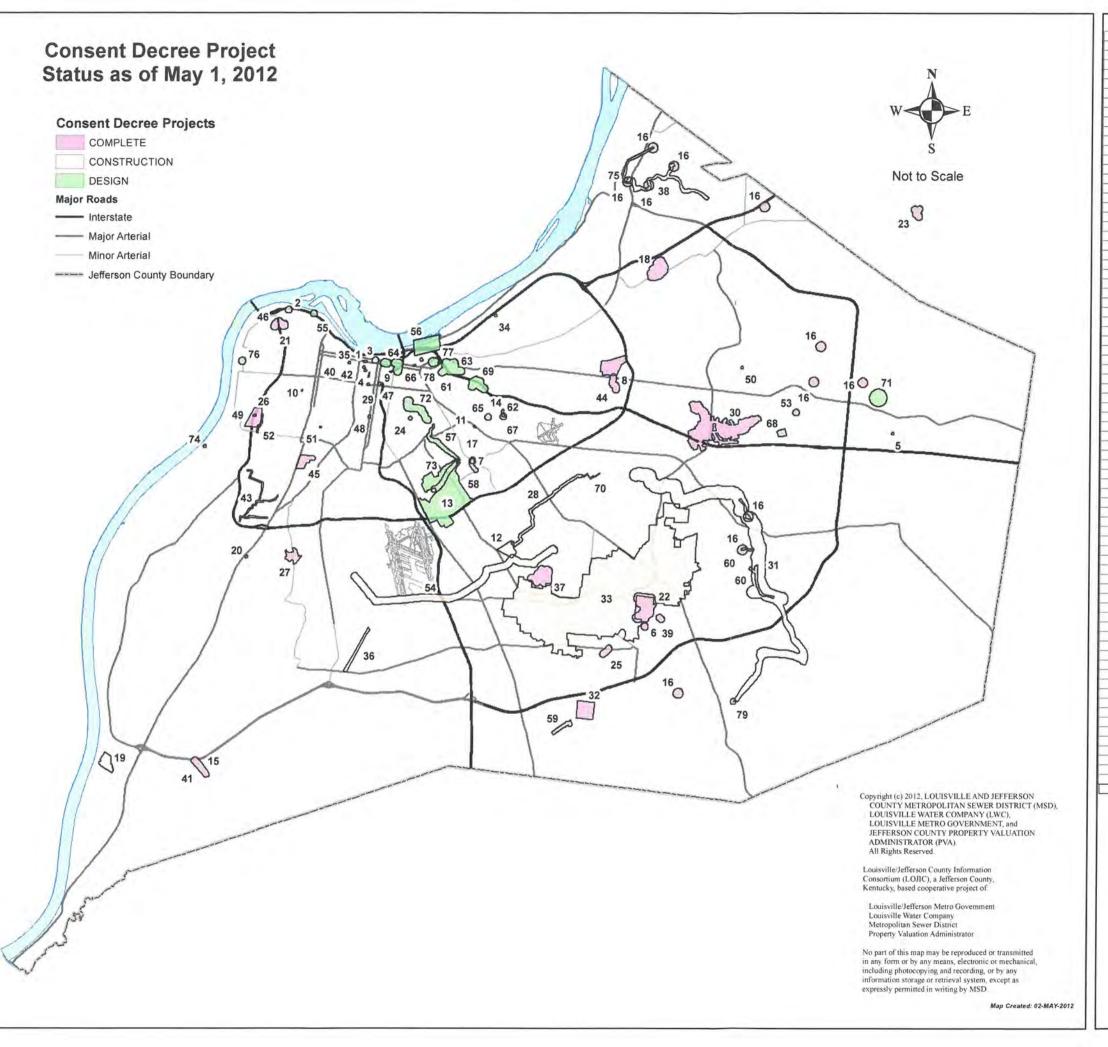
At the time of this update, the following WWT Stakeholder Group members are continuing their active involvement.

Name	Organization/Interest
Steve Barger	Labor (retired)
Susan Barto	Mayor of Lyndon
Stuart Benson	Louisville Metro Councilman, District 20
Allan Dittmer	University of Louisville Provost Office
Arnita Gadson	Kentucky Environmental Quality Commission
Mike Heitz	Louisville Metro Parks
Tom Herman	Zeon Chemicals
Rick Johnstone	Deputy Mayor, Louisville Metro Mayor's Office (Retired)
Bob Marrett	CMB Development Company, LLC
Kurt Mason	Jefferson County Soil and Water Conservation
Jim Mims	Department of Codes and Regulations
Lisa Santos	Irish Hill Neighborhood Association
Bruce Scott	Kentucky Waterways Alliance
David Tollerud	University of Louisville, School of Public Health and Environmental Sciences
Tina Ward-Pugh	Louisville Metro Councilwoman, District 9
David Wicks	Jefferson County Public Schools (retired)

For More Information

For more information about MSD's WWT Stakeholder Group process, please contact Angela Akridge (<u>AKRIDGE@msdlouky.org</u>) at MSD at (502) 540-6136.





2300 BLOCK OF CONGRESS STREET (formerly SEVENTH AND MARKET) PERMEABLE ALLEY
34TH STREET FPS DWO ELIMINATION
4TH STREET FPS DWO ELIMINATION 6TH & MARTIN LUTHER KING (formerly SIXTH AND MUHAMMAD ALI) GREEN PARKING LOT ASHBURTON PS IMPROVEMENTS AND DIVERSION AVANTI PS ELIMINATION BEARGRASS INTERCEPTOR REHABILITATION PH 2 BEECHWOOD VILLAGE SANITARY SEWER REPLACEMENT
BILLY GOAT STRUT (formerly CAMPBELL AND MAIN) PERMEABLE ALLEY
BRANDIES APARTMENTS RAIN GARDEN BROWN FORMAN GREEN ROOF BUECHEL SURGE BASIN CAMP TAYLOR #1 SSES CHEROKEE PARK STREAM RESTORATION CLIFTON TRIANGLE AREA RAIN GARDEN
CPE/CCP MODIFICATIONS TO WOTC CSO 108 DAM MODIFICATIONS DERINGTON COURT PUMP STATION I/I INVESTIGATION
DRGWOTC: WET WEATHER TREATMENT FACILITY
EAST ROCKFORD LANE PS RELOCATION EAST WASHINGTON STREET AT ADAMS STREET GREEN STREET (formerly GI I-264 ON-RAMP DRY WELL) EDSEL PUMP STATION I/I INVESTIGATION
FLOYDSBURG RD I/I INVESTIGATION & REHABILITATION GERMANTOWN RAIN GARDEN PROJECT GOVERNMENT CENTER PS WEATHER STORAGE GRAWEMAYER HALL PARKING LOT (formerly GI I-264 & GIBSON DRY WELL)
HAZELWOOD PUMP STATION I/I INVESTIGATION HIKES POINT INTERCEPTOR PH II HOUSING AUTHORITY GREEN ROOF (formerly SIXTH AND BROADWAY RAIN GARDEN)
HURSTBOURNE I/I INVESTIGATION JEFFERSONTOWN WOTC EIMINATION LANTANA PUMP STATION WET WEATHER STORAGE
LEA ANN WAY SANITARY SEWER I/I REHABILITATION MELLWOOD PUMP STATION ELIMINATION MSD MAIN OFFICE PARKING LOT BIOSWALE

NORTHERN DITCH INTERCEPTOR (NR-1A) SANITARY SEWER PROJECT PARKMEW ESTATES I&I INVESTIGATION PROSPECT PHASE I - WQTC ELIMINATION RUNNING FOX PS ELIMINATION SCHOLAR HOUSE GREEN PARKING LOT (formerly TWELFTH AND JEFFERSON)
SEP - POND CREEK TRAIL STREAM RESTORATION SEVENTH AND CEDAR GREEN PARKING LOT SHIVELY INTERCEPTOR SINKING FORK RELIEF SEWER SONNE PUMP STATION I/I INVESTIGATIONS SPEED ART MUSEUM INFILTRATION TRENCH (formerly GI I-264 OFF-RAMP DRY WELL)
SWIFT COMPANY GREEN PROJECT (formerly SECOND AND BROADWAY GREEN PARKING LOT)
THIRD AND ORMSBY BIOBIOFILTRATION SWALES THIRD STREET AND CAMPBELL VENTURES (formerly GI JFK MONTESSORI AREA DRY WELL) VANNAH AVENUE PUMP STATION ELIMINATION W GAULBERT & W HILL (formerly SEVENTEENTH AND W HILL) PERMEABLE ALLEY WILSON CROSSINGS GREEN (formerly GI RUSSELL LEE DRIVE DRY WELL) WOODLAND HILL PS DIVERSION SOUTHEASTERN INTERCEPTOR RELIEF 27TH STREET FLOOD PUMP STATION ADAMS STREET STORAGE BASIN CALVARY-CREEKSIDE STORAGE BASIN CAMP TAYLOR #2 REPLACE SEWERS CHARLESWOOD SUBDIVISION INTERCEPTOR CHENOWETH HILLS WOTC ELIMINATION CSO 093 SEWER SEPARATION CSO 123 DOWNSPOUT DISCONNECTION CSO 140 SEWER SEPARATION CSO 160 SEWER SEPARATION CSO 206 SEWER SEPARATION CSO 58 SEWER SEPARATION DOWNSPOUT DISCONNECTION @ CSO 123

EDEN CARE PUMP STATION INLINE STORAGE I-64 & GRINSTEAD DRIVE STORAGE BASIN LANDINE INTERCEPTOR
LAKE FOREST PS SSO ELIMINATION
LOGAN STREET & BRECKINRIDGE STREET STORAGE BASIN NIGHTINGALE PUMP STATION REPLACEMENT PADDY'S RUN WW TRMT FACILITY
PROSPECT PHASE II - HARRODS CREEK PS SHAWNEE FLOOD PUMP STATION STORY AVENUE & MAIN STREET STORAGE BASIN 78 STORY AVENUE & SPRING STREET STORAGE BASIN 79 FAIRMOUNT ROAD PUMP STATION EXPANSION PROJE





Project_ID Project Name
1 2300 BLOCK OF CONGRESS STREET (formerly SEVENTH AND MARKET) PERMEABLE ALLEY
4 6TH & MARTIN LUTHER KING (formerly SIXTH AND MUHAMMAD ALI) GREEN PARKING LOT ASHBURTON PS IMPROVEMENTS AND DIVERSION AVANTI PS ELIMINATION
BEARGRASS INTERCEPTOR REHABILITATION PH 2 8 BEECHWOOD VILLAGE SANITARY SEWER REPLACEMENT BILLY GOAT STRUT (formerly CAMPBELL AND MAIN) PERMEABLE ALLEY BRANDIES APARTMENTS RAIN GARDEN BROWN FORMAN GREEN ROOF CAMP TAYLOR #1 SSES
CHEROKEE PARK STREAM RESTORATION
CLIFTON TRIANGLE AREA RAIN GARDEN CPE/CCP MODIFICATIONS TO WQTC CSO 108 DAM MODIFICATIONS

DERINGTON COURT PUMP STATION // INVESTIGATION EAST ROCKFORD LANE PS RELOCATION EAST WASHINGTON STREET AT ADAMS STREET GREEN STREET (formerly GI +264 ON-RAMP DRY WELL) EDSEL PUMP STATION I/I INVESTIGATION 23 FLOYDSBURG RD II INVESTIGATION & REHABILITATION 24 GERMANTOWN RAIN GARDEN PROJECT GOVERNMENT CENTER PS WEATHER STORAGE GRAWEMAYER HALL PARKING LOT (formerly GI I-264 & GIBSON DRY WELL)
HAZELWOOD PUMP STATION I/I INVESTIGATION HOUSING AUTHORITY GREEN ROOF (formerly SIXTH AND BROADWAY RAIN GARDEN) HURSTBOURNE II INVESTIGATION
LANTANA PUMP STATION WET WEATHER STORAGE
MSD MAIN OFFICE PARKING LOT BIOSWALE PARKVIEW ESTATES I&I INVESTIGATION RUNNING FOX PS ELIMINATION
SCHOLAR HOUSE GREEN PARKING LOT (formerly TWELFTH AND JEFFERSON)
SEP - POND CREEK TRAIL STREAM RESTORATION SEVENTH AND CEDAR GREEN PARKING LOT 43 SHIVELY INTERCEPTOR
44 SINKING FORK RELIEF SEWER SONNE PUMP STATION VI INVESTIGATIONS SPEED ART MUSEUM INFILTRATION TRENCH (formerly GI I-264 OFF-RAMP DRY WELL)
SWIFT COMPANY GREEN PROJECT (formerly SECOND AND BROADWAY GREEN PARKING LOT)
THIRD AND ORMSBY BIOBIOFILTRATION SWALES THIRD STREET AND CAMPBELL VENTURES (formerly GIJFK MONTESSORI AREA DRY WELL)

VANNAH AVENUE PUMP STATION ELIMINATION

53 WOODLAND HILL PS DIVERSION
79 FAIRMOUNT ROAD PUMP STATION EXPANSION PROJECT

W. GAULBERT & W. HILL (formerly SEVENTEENTH AND W. HILL) PERMEABLE ALLEY
WILSON CROSSINGS GREEN (formerly GI RUSSELL LEE DRIVE DRY WELL)





Map Created: 02-MAY-2012

Consent Decree Project

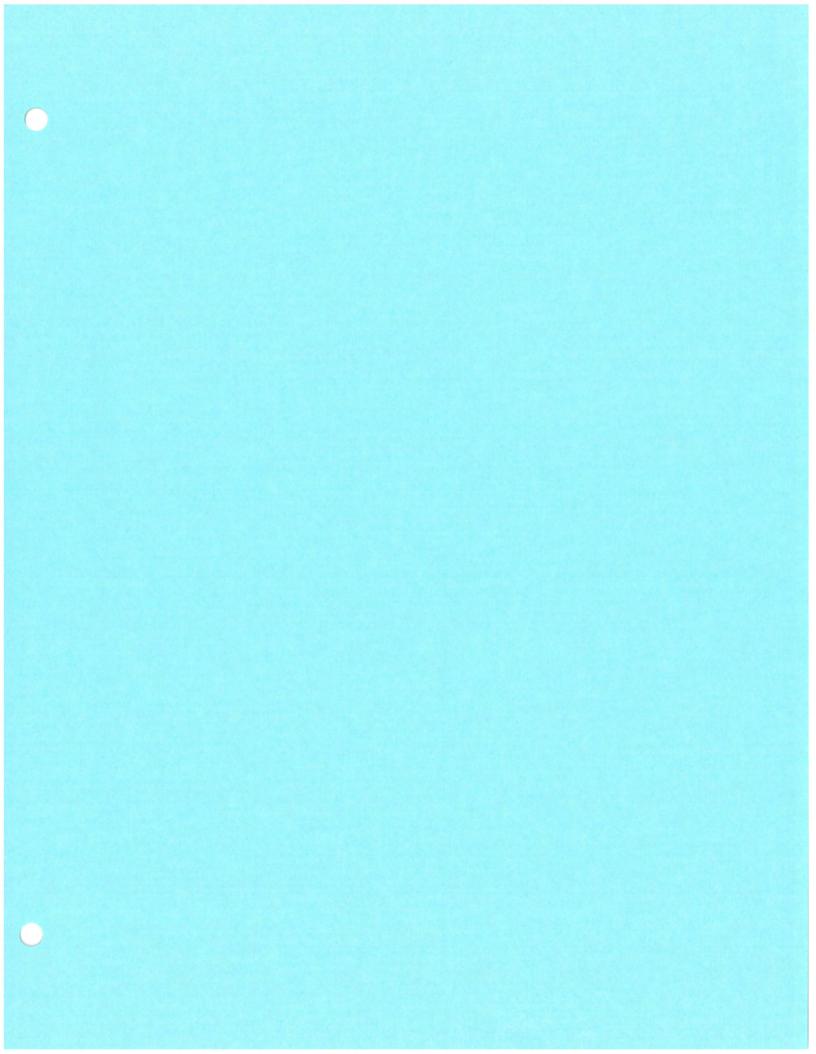
DESIGN

roject_ID	Project Name	
55	27TH STREET FLOOD PUMP STATION	
56	ADAMS STREET STORAGE BASIN	
57	CALVARY-CREEKSIDE STORAGE BASIN	
58	CAMP TAYLOR #2 REPLACE SEWERS	
59	CHARLESWOOD SUBDIMSION INTERCEPTOR	
60	CHENOWETH HILLS WQTC ELIMINATION	
61	CSO 093 SEWER SEPARATION	
62	CSO 123 DOWNSPOUT DISCONNECTION	
63	CSO 140 SEWER SEPARATION	
64	CSO 160 SEWER SEPARATION	
65	CSO 206 SEWER SEPARATION	
66	CSO 58 SEWER SEPARATION	
67	DOWNSPOUT DISCONNECTION @ CSO 123	
68	EDEN CARE PUMP STATION INLINE STORAGE	
69	I-64 & GRINSTEAD DRIVE STORAGE BASIN	
70	KLONDIKE INTERCEPTOR	
71	LAKE FOREST PS SSO ELIMINATION	
72	LOGAN STREET & BRECKINRIDGE STREET STORAGE BASIN	
73	NIGHTINGALE PUMP STATION REPLACEMENT	
74	PADDY'S RUN WW TRMT FACILITY	
75	PROSPECT PHASE II -HARRODS CREEK PS	
76	SHAWNEE FLOOD PUMP STATION	
77	STORY AVENUE & MAIN STREET STORAGE BASIN	
78	STORY AVENUE & SPRING STREET STORAGE BASIN	

CON	ISTRUCTION	
Project_ID	Project Name	
2	34TH STREET FPS DWO ELIMINATION	
3	4TH STREET FPS DWO ELIMINATION	
12	BUECHEL SURGE BASIN	
19	DRGWQTC: WET WEATHER TREATMENT FACILITY	
28	HIKES POINT INTERCEPTOR PH II	
31	JEFFERSONTOWN WQTC EIMINATION	
33	LEA ANN WAY SANITARY SEWER VI REHABILITATION	
34	MELLWOOD PUMP STATION ELIMINATION	
36	NORTHERN DITCH INTERCEPTOR (NR-1A) SANITARY SEWER PROJECT	
38	PROSPECT PHASE I - WQTC ELIMINATION	
54	SOUTHEASTERN INTERCEPTOR RELIEF	







²⁰¹² Level of Control

** Level of Control Changed from 2009 to 2012 Analysis

						0 Overfic	ows/YR	2 Overfl	ows/YR	4 Overflo	ws/YR	B Overfil	ows/YR			Difference			
Project Name	Receiving Stream	CSO Controlled	2009 LTCP LOC (Overflows per Year)	2009 LTCP Size (MG)	2009 LTCP Cost	Size (MG) or Rate (mgd)	Present Worth Benefit- Cost	2012 Re- assessment Size (MG)	2012 LTCP/Re- assessment Cost	Re- assessment Cost vs. LTCP Cost	Completion Date	Proposed Completion Date	Explanation for Proposed Schedule Revisions						
I-64 and Grinstead Drive Storage Basin**	, Middle Fork	CSO125, CSO126, CSO127, CSO166	8	2.74	\$12, 950,000	22,45	18.39	17.46	17.71	15.13	19.9	12.46	19.44	15.13	\$48,970,000	\$36,020,000	12/31/2014	12/31/2020	Public comments received requested serious consideration for green infrastructure utilization in the basin drainage area along with intensive public involvement. Due to the size of the drainage area and the increased size and cost of the basin, additional time is needed to address this project appropriately.
Story Avenue and Main Street Storage Basin	Ohio River	CSO020	8	0.13	\$1,580,000	16.58	12.28	9.79	14.74	7.12	19.4	5.42	216	5,42	\$12,580,000	\$11,000,000	12/31/2013	12/31/2020	Story and Main & 13th and Rowan basins are linked together functionally. Story & Main grew substantially in size due to more conservative operational assumptions for Starkey PS. MSD proposes to split out and accelerate the schedule of CRD/CSO 22/CSO 23/CSO054 projects using green infrastructure and localized storage. Additional time is requested to right size the Story/Main and 13th/Rowan basins once the impacts of green infrastructure and upstream storage are realized and monitored.
13th Street and Rowan Street Storage Basin**		CSO050, CSO051, CSO052, CSO053, CSO054, CSO055, CSO056, CSO150,CSO155	4	14.44	\$49,680,000	35.15	25.7	11.14	39.46	8.48	46	5	48126	5	\$19,870,000	(\$29,810,000)	12/31/2020	12/31/2020	MSD proposes to split CRD/CSO 22/CSO 23 projects into separate projects and move them up in schedule. The storage basin is proposed to remain on the same schedule.
CRD CSO Green Infrastructure & Localized Storage**	Ohto River	Central Relief Drain CSOs (8 total with an AAOV)	4											1.07 MG (combined)	\$5,216,250	\$5,216,250		Staggered deadlines from 2014 to 2020 - TBD	New project. MSD proposes to split CRD/CSC 22/CSO 23/CSO054 projects into separate projects and move them up in schedule. The storage basin is proposed to remain on the same schedule.
CSO022, CSO023 & CSO054 Green Infrastructure & Localized Storage **	Ohio River	CSO022, CSO023, CSO054	4											1.20 MG	\$3,774,000	\$3,774,000		2017	New project. MSD proposes to split CRD/CSC 22/CSO 23/CSO054 projects into separate projects and move them up in schedule. The storage basin is proposed to remain on the same schedule.
Lexington Road and Payne Street Storage Basin**	South Fork	CSO084, CSO118, CSO119, CSO120, CSO121, CSO141, CSO153, CSO082	- 8	7.31	\$25,200,000	N. A. C.	75:16	6.73	65.1	5.95	70.2	4.03	73.09	8.18	\$25,900,000	\$700,000	12/31/2020	12/31/2020	No changes are proposed for this project schedule,
Portland Wharf Storage Basin	Ohio River	CSO019	8	6.37	\$20,000,000	2.98	29.55	2.01	30.04	1,41	3315	0.97	27,42	1.14	\$10,330,000	(\$9,670,000)	12/31/2019	12/31/2019	No changes are proposed for this project schedule.

2012 Level of Control

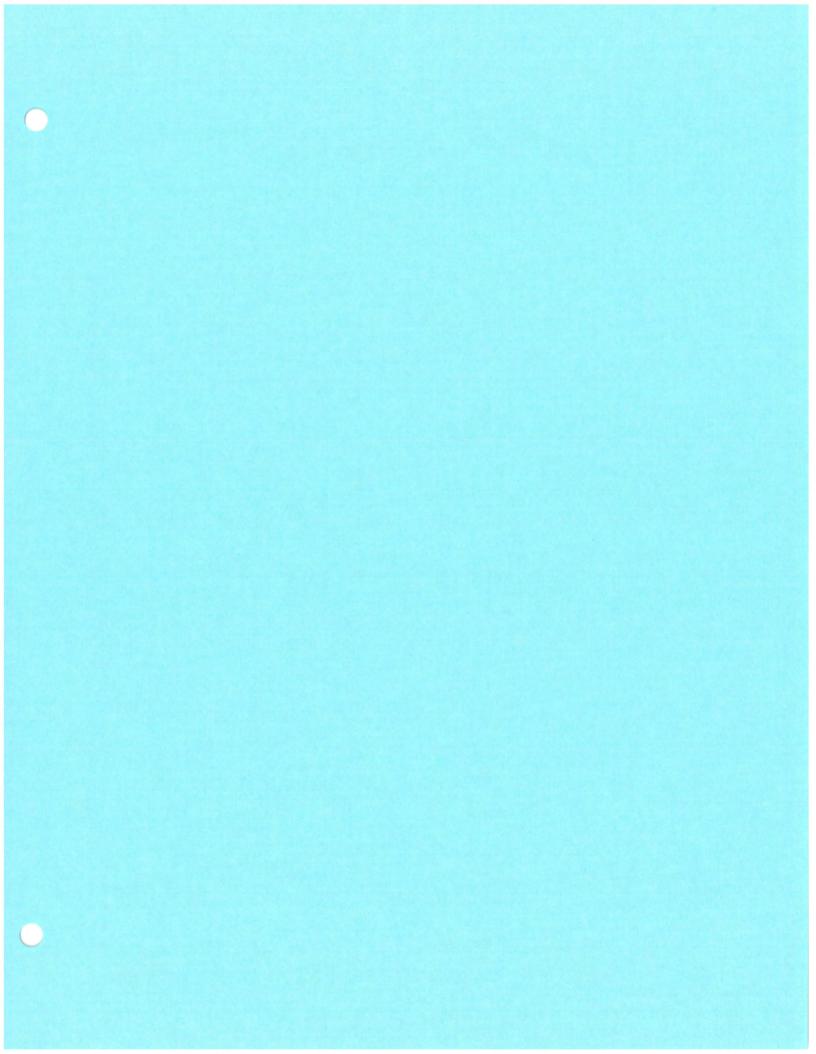
^{**} Level of Control Changed from 2009 to 2012 Analysis

						0 Overfl	ows/YR	2 Overfl	ows/YR	4 Overflo	ws/YR	8 Overfi	ows/YR			Difference			
Project Name	Receiving Stream	CSO Controlled	2009 LTCP LOC (Overflows per Year)	2009 LTCP Size (MG)	2009 LTCP Cost	Size (MG) or Rate (mgd)	Present Worth Benefit- Cost	Size (MG) or Rate (mgd)	Present Worth Benefit- Cost	Size (MG) or Rate (mgd)	Present Worth Benefit Cost	Size (MG) or Rate (mgd)	Present Worth Benefit- Cost	2012 Re- assessment Size (MG)	2012 LTGP/Re- assessment Cost	Re- assessment Cost vs. LTCP Cost	Completion Date	Proposed Completion Date	Explanation for Proposed Schedule Revisions
Logan Street and Breckinridge Street – Calvary Cemetery Storage Basin	South Fork	CSO137, CSO106, CSO097, CSO110, CSO148, CSO111, CSO151, CSO113, CSO152, CSO091,	8	Logan – 11.83	Logan - \$30,320,000	34,2	50.29	26.71	53.25	20.96	60.5	16.6	61:19	16.6	\$48,240,000	\$4,200,000	12/31/2017	12/31/2017	A review of project approach and benefit/cos results eliminated the Calvary Creekside basin consolidating storage to the Logan Street basin location. No changes to schedule are proposed
otolage basin		CSO146, CSO149, CSO117		Calvary – 3.46 Combined – 15.29	Calvary - \$13,720,000 Combined - \$44,040,000														Basin volume now addressed through Logan Street. Project is proposed to be eliminated.
Nightingale Pump Station Replacement & Storage**	South Fork	CSO018	NA.	60 MGD/0 MG	\$15,710,000	33 MGD/0.2 6 MG	14.8	33 MGD/0.1 1 MG	10.4	33 MGD/0.0 1 MG	11	33 MGD/NA	NA	33 MGD/0.26 MG	\$9,563,000	(\$6,147,000)	12/31/2016	12/31/2015	MSD proposed to move this project up in schedule due to operational advantages that would be realized.
Algonquin Parkway Storage Basin/in-line Storage	Ohlo River	CSO016, CSO210, CSO211	8	4:84	\$17,300,000	12.66	52.93	7.82	56.07	0.81	78.6	0	116.37	0 (In-line slorage only)	\$0	(\$17,300,000)	12/31/2018	Eliminated	Offline storage eliminated. Optimized operatin rules between Paddy's Run HRT and Morris Fonnan's Main Diversion Structure demonstrated that only inline storage was needed at Southern Outfall Relief 1 and Southern Outfall Relief 2. MSD proposes to move the first of these two pieces up in schedule, the second piece back in schedule on year and eliminate the Algonquin storage basin portion of the project.
SOR1	Ohio River	CSO016/210	8	. NA	NA					14				0 (In-line storage only)	\$3,544,000	\$3,544,000	12/31/2018	2015	New stand-alone project. Optimized operating rules between Paddy's Run HRT and Morris Forman's Main Diversion Structure demonstrated that only inline storage was needed at Southern Outfall Relief 1 and Southern Outfall Relief 2. MSD proposes to move the first of these two pieces up in schedule, the second piece back in schedule one year and eliminate the Algonquin storage basin portion of the project.
SOR2	Ohlo River	CSO211	8	NA	NA	7	4	7			-			0 (In-line storage only)	\$3,544,000	\$3,544,000	12/31/2018	2018	New stand-alone project. Optimized operating rules between Paddy's Run HRT and Morris Forman's Main Diversion Structure demonstrated that only inline storage was needed at Southern Outfall Relief 1 and Southern Outfall Relief 2. MSD proposes to move the first of these two pieces up in schedule, the second piece back in schedule one year and eliminate the Algonquin storage basin portion of the project.

2012 Level of Control:

^{**} Level of Control Changed from 2009 to 2012 Analysis

						0 Overfl	ows/YR	2 Overfi	ows/YR	4 Overfic	ws/YR	8 Överfl	ows/YR			Difference			
Project Name	Receiving Stream	CSO Controlled	2009 LTCP LOC (Overflows per Year)	2009 LTCP Size (MG)	2009 LTCP Cost	Size (MG) or Rate (mgd)	Present Worth Benefit- Cost	Size (MG) or Rate (mgd)	Present Worth Benefit- Cost	Size (MG) or Rais (mgd)	Present Worth Benefit- Cost	Size (MG) or Rate (mgd)	Present Worth Benefit- Cost	2012 Re- assessment Size (MG)	2012 LTCP/Re- assessment Cost	Re- assessment Cost vs. LTCP Cost	Completion Date	Proposed Completion Date	Explanation for Proposed Schedule Revisions
Paddy's Run RTB	Ohio River	CSO015, CSO191	8	50 MGD	\$24,940,000	7BD	TBD	TBD	TBD	TBD	TBD	TBD	ТВD	50 MGD/ 18 MG Storage	TBD	TBD	12/31/2014	12/31/2017	Optimization w flow through Morris Forman's Main Diversion Structure and MSD's Real Time Control strategy added storage volume requirements. Additional time for construction is being requested due to size increase, moving the site, offline storage and integration of Southwestern Pump Station.
Story Avenue and Spring Street Storage Basin	South Fork	CSO130	8	0.01	\$1,077,000	TBD	TBD	TBD	TBD	TBD-	TBD	TBD	TBD	NA (Green Projects)	NA	\$0	12/31/2016	12/31/2014	A project modification request to use a suite of green infrastructure projects in lieu of the storage basin is anticipated in early 2012. No schedule change for overflow reduction is anticipated.
Southwestern Parkway Storage Basin	Ohio River	CSO104, CSO105, CSO189	0	5.08	\$17,620,000	11.07	24:06	8.39	22.54	6.99	22.6	5.08	19.41	11.07	\$30,940,000	\$13,320,000	12/31/2018	12/31/2018	No changes are proposed for this project schedule.
Clifton Heights Storage Basin	Muddy Fork	CSO132, CSO154, CSO167	8	6.55	\$13,870,000	6.68	55.38	6.23	46.76	4.63	54.2	3.28	61.26	3.28	\$8,025,000	(\$5,845,000)	12/31/2018	12/31/2018	No changes are proposed for this project schedule.
8th and Northwestern Pkwy Storage Basin	Ohio River	CSO190	8	1.31	\$4,514,000	2.06	53.14	1.88	47,22	1.76	49.1	1,24	155:57	1.24	\$4,377,000	(\$137,000)	12/31/2017	12/31/2017	No changes are proposed for this project schedule.
Adams Street Storage Basin (Revised to Sewer Separation)**	Ohio River	CSO172	8	0.12	\$983,000	4			¥		-		-	0	\$73,700	(\$909,300)	12/31/2012	12/31/2012	Project modification request to revise this project to a sewer separation has been submitted and accepted. Upon inspection of the sewer system, all but two catch basins were found to have been separated already during recent redevelopment.
CSO108 Dam Modification	South Fork	CSO108	NA	-E 1 1	\$150,000		E.	100	12.1		1,2	UŠL.		NA	\$150,000	\$0	12/31/2010	12/31/2010	Completed
CSO123 Downspout Disconnection	Middle Fork	CSO123	NA		\$315,000	(e			4.0	FE	41	1.1		NA.	\$315,000	\$0	12/31/2012	12/31/2012	Considering the use of green infrastructure and localzed storage for this area.
CSO206 Sewer Separation	Middle Fork	CSO206	NA	[[]	\$3,842,000	72	G 7	120		7.7	52.	3.7	37	NA	\$3,842,000	\$0	12/31/2013	12/31/2013	No Change
CSO058 Sewer Separation	Ohio River	CSO058	NA		\$1,361,000	1.0		77	21	1.1	-	-	7,0	NA	\$1,361,000	\$0	12/31/2014	12/31/2014	Considering the use of green infrastructure and
CSO140 Sewer Separation	Middle Fork	CSO140	NA	-	\$3,150,000		¥.]	1.4	-	3.47 (124	3	12	NA	\$3,150,000	\$0	12/31/2015	12/31/2015	localzed storage for this area. Considering the use of green infrastructure and localzed storage for this area.
Separation	South Fork	CSO093	NA	-1	\$952,000	. 5-		F . L	7			-	G	NA	\$952,000	\$0	12/31/2015	12/31/2015	Considering the use of green infrastructure and localzed storage for this area.
CSO160 Sewer Separation	Ohio River	CSO160	NA		\$237,000	4	5	121	3	44	1.2		-	NA	\$237,000	\$0	12/31/2015	12/31/2015	Considering the use of green infrastructure and localzed storage for this area.
															\$241,111,950	\$11,499,950			



	1	Project	Characteri	-	1.00	T	-	2007 Calibration			2012 Calibi	ation		Cost Difference	7	
Watershed	Project Name	Project ID	Revision		Desig		Overflow Points Addressed	Description -	Capital Cost	Present Worth	Description	Capital Cost	Present Worth	Capital Cost	Present Worth	Hotes
Cedar Creck	IDLEWOOD INLINE STORAGE	۶ ِدد ِدد ِ۲۰۰۳ عالی ۱۳۵۵ کردد ِ	No	Inline Storage	2	Cedar Creek	28998, 28984, 63094, 63095, 70158	This alternative includes in line storage with 955 LF of (84-to 120°) pipe to store wet Weather peak flow. Also included are pipe upgrades for 1,747 LF of open cut (8° to 15°) sewer to locrease hydraulic capacity during wet weather peak flows.		\$ 1,835,00	No change	\$ 2,317,000	\$ 1,836,000 \$	\$	- \$ -	
Cedar Creek	FAIRMOUNT AD PS IMPROVEMENTS	5_FF_CC_81316_M_03_C	No	PS Upgrades	10	B/g Run	81316, 97362	rinstall (3) 130 HP, 1750 gam pumps to increase capacity	\$ 874,000	\$ 874,000	No change	\$ 874,000	\$ 874,000 S	y .	- \$ -	
Gedar Creek	LITTLE CEDAR CREEK INTERCEPTOR INTPROVEMENTS	5_CC_CC_67997_M_01_C	Yes	Pipe Upgrades	2	15/25	67997, 67999 86423, 89195 89197, MOP 89190	This alternative includes upshire 3,701 IF of open cut sewer and 215 IF of 21 tunneling interceptor pipe in the area to Ungrease incredit capacity during wat weather peat flows.	\$ 1,875,000		Raise MK #89390 1.5 ft, increase pipe size to 48 inches for segment 67998, 67997, and 26130. Invert elevations lowered for segments.	\$ 2,006,000		5 131,000		Upstream development has caused the ra for a revision in the project approach.
Cedar Creek	BARDSTOWN RD PS IMPROVEMENTS	S_CC_CC_MSD1025_S_09_B	No	PS Upgrades	5	Big Run	88545	This elternative includes forceasing the capacity of the pump Falsition with an additional 20% of hydraulic capacity to 0.53	\$ 281,000	41000	Ho change	\$ 281,000	\$ 420,000 \$. \$	
Cedar Creek	ROITAHIALUS 29 XOF DRIMINUR	S_CC_CC_MS01090_S_01_C	Но	Diversion	2	Little Cedar Creek	MS01080	Construct 3/5 IF of 8° gravity sewer to eliminate Running Fox PS. Existing 63 and force main will remain functional, but dormants to allow for monitoring downstream impacts of the inter diversion. If no impacts are noted, station will be eliminated and force main factor out of service. If downstream impacts affect the PS will be reconfigured to supplement the capacity of the new diversion line.	\$ 96,000		No change	\$ 96,000	\$ 84,000 \$		- R/A	
Hite Greek	MEADOWSTREAM PUMP STATION AND FORCE MAIN UPGRADE	S_HC_HC_IASO1082_S_09A_C	No	Inline Storage	2	Floyds Fork / South Fork Harrods Creek	91087, MSD1082-PS	Tels afternative includes underground in line storage with the correct indivent time to the PS, consisting of two, 120° diameter storage pipes each 238 LF;	\$ 974,000	\$ 766,000	Upgrade to Meadowstream Pump Station and force main to allow for expansion in the Crestwood area. New solution accommodates design storm for 2 year cloudburst with buildout conditions; currently can support 5YR w/ no overflow including some buildout	\$ 974,000	\$ 766,000 \$. 5 -	Afternate solution is being proposed. Pun station upgrade and new parallel force ma in lieu of inline storage.
Hite Greek	FLOYDSBURG RO LA IRVESTIGATION & REHABILITATION	S_HC_HC_MSD1086_M_07_C	No	· V/ Reduction	2	Floyds Fork	90776, 108956, 108957, 108958, M501086 PS	This location will be targeted for I/I source control (I/I rehab- and private property program). A full SSES will be performed upstream of this PS. If I/I reduction is deemed unsuccessful in eliminating the SSO, the next best atternative will be implemented, which is Pump Station & Force Main upgrades.	\$ 57,000	\$ 57,000	Nochange	\$ 57,000	\$ 57,000 \$		ΝΑ	
Kite Creek	KAVANAUGH RD PS IMPROVEMENTS	S_HC_HC_MSD1085_S_D3_A	No	PS Upgrades	10	Hite Creek	MSD1085-PS	This alternative includes upgrading the Kayanaugh Rosel pump station to handle peak flows of 0.84 f/Kj0 and upture 2,458 LF of force main to 8".	\$ 1,110,000	\$ 1,322,000	Nochange	\$ 1,110,000	\$ 1,322,000 \$		N/A	
Floyds Fork	WOODLAND HILLS FLOW DIVERSION	5_5F_FF_NB0(_5_0)_C_A	No	Pipe Upgrades	2	Pone Uck	33001 65631	This alternative constits of replacing the existing overflow and automated gate (to the Woodland Hills PS) with a double barrel overflow that consists of 30 LF for two 123 diameter plpes. The upstream invert of these pipes needs to be 2 Inches above the upstream invert of the exiting gravity pipe in MH 82058. The new Invert elevation will allow day weather flow to gravity shall show the Interceptor, but anything greater, than DMF will be diverted to the PS via the overflow pipes thus reducing the surcharge further down the gravity line. 15 LF of open cut's ever required.	5 20,000	\$ 101,000	Nechange	\$ 20,000	\$ 101,000 S		N/A	
Floyds Fork	EDEN CARE PS \$50 INVESTIGATION	5 FF FF NB02 S 13 C		Monitor		Floyds Fork	MSD1105-Ps	Monitor the Eden Care PS during rain events for the next three years according to SORP protocols			No change	\$ -	- 5		IVA	34
Floyds Fork	ASHBURTON PS IMPROVEMENTS AND DIVERSION	S_FF_FF_NB03_M_03_C_A	No	Upgrade Force Main & Pumps	2	Floyds Fork		This alternative Includes deverting flow from Ashburton PS by suggrading 370 F of force main (flow 2' to 6') and adding 115 IF of 8' granty sevier. Also eliminates the overflow at Olde- Copper PS.	\$ 118,000	\$ 117,000	No change	\$ 318,000	\$ 112,000 \$		R/A	
Floyds Fork	EARMOUNT ROAD PS OFFLINE STORAGE	NA	Yes	Off Use Storage	2	5.200	(alimovn) Road Pump Station	New Project	H/A*	N/A	This alternative implies construction of 3.4. MG offline storage basin near the Fairmount Road Pump Station	ş	\$ 13,438,000 \$.	13,418,000	TBD	Ove to treatment capacity limitations at Cedia Creek and the significant peak wet wealther flows in the collection system belo directed from Jeffersontown WOTC, this shorage is needed to miligate peak flows
eHersontown	JEFFERSONTOWN WOIC ELIMINATION	\$_П_П_N903_03_C_∧	No	Replace/Diversion	2	Chenoweth Run	ISO28, 28390, 28395A, 31733, 64505 (NVVTP and 26392 are documented not modelled)	Replace from Grassland to the WYYTP. Storage at the plant and gamp station with capacity of 10 MGD, Force Main and the first of the interceptor.	\$ 53,770,512	\$ 50,704,925	No change	\$ 53,770,512	N/A \$		K/A	storage is record to miligate peak flows.
effersonlown	CHENOWETH HILLS WOTC EUMINATION & PS IMPROVEMENTS	\$_IT_IT_NB01A_03_C	No	Pump Upgrades	2	Chenoxeth Run		Upgrade Pumps at MSD0196 (Chenbreith Run) to pump 2.65 MGD and Upstre entire force min for Chenoweth Run to a 112	\$ 5,054,667	\$ 5,664,592	No change	\$ 5,054,667	N/A 5		N/A	
effersonlown	DELL RD & CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	รับ″ับ"ห803″ื่อก็c	No	Conveyance	2	Orenowalli Run	92061 28336, 28340, 28415, 28416, (28249, 28250, 28413, 28414, 28417, 104269 documented not modelled. Within 2 manhotes of others listed)	Conveyance spilling for Harver's Branch 2. Lincolness upplying a pipe of set Charlane (28336) and DM (22215) to deceptions unneling 1 Quited Uniter (filtred for sement (28396) 28393)	. 2017.11	inisir		\$ 2,175,437	N/A S	·	14/A	
effersonlown	RAINTRÉE & MARIAN CT PHI - PS FIIMINATION	5_17_17_18803_01_C	No	Diversion	2	Chenoweth Run	MSD0148, MSD0149, 28719, 28711	Driver flow from Marion COPs and Balance PS with Installation of 8: gravity sever to SED. Upsize solution for ex- overflow 25676 in SED	1. 69.0	1127/10	No change	\$ 1,551,097	N/A S		N/A	

2012 Draft SSDP Project Re-Assessment

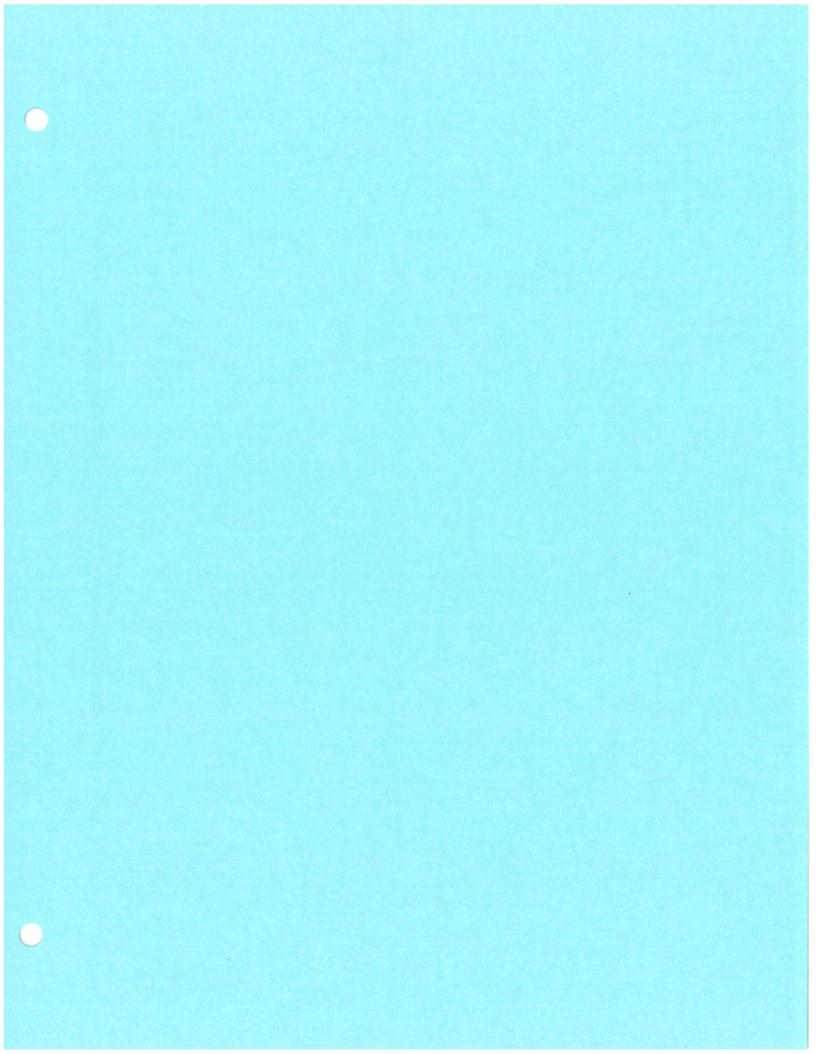
	3.7	Project (Characterist	tics				2007 Callbration	200	100	2012 Call	bration		Cost Differen	ice	
Watershed	Project Name	Project ID	Revisions Needed	Project Type	Design Level	Receiving Stream	Overflow Points Addressed	Description	Capital Cost	Present Worth	Description	Capital Cost	Present Worth	Capital Cost	Present Worth	Notes
Mill Creek	SHIVELY INTERCEPTOR	5_MC_WC_NB01_M_01_A	No	Pipe Upgrades	10	Mail Creek/ Heatherfield Ditch	D4498, 04542, 81814-W, MS00047-P5, MSD0050-P5	Construct 18,830 If of new gravity sewers [10" - 27") to eliminate pump stations. This is the Shively interceptor capital improvement project.	\$ 16,419,000	\$ 12,982,000	No change	\$ 16,419,000	N/A \$		- N/A	
Mill Creek	EAST ROCKFORD LANE PUMP STATION UPGRADE	\$_MC_WC_NB02_\$_03_C	Ко	Pump Station Replacement & Relocation	2	MAI Greek	04699-W	Relocate and replace East Rockford PS at 300 GPNL 150 LF of 4° force: main will be replaced. Additional 150 LF of 10° gravity Improvements required to relocate PS-	\$ 1,044,000			\$ 1,044,000	IVA S		- N/A	
errylown (Small WQTC)	LUCAS IN PS INURE STORAGE	S_FF_BT_NB01_S_09A_C_A	No	Inline Storage	2	Goose Creek	M\$00199-ES	This alternative includes installing two 90 LF long 54" wide parallel storage pipes that branch off the gravity main prior to the Lucas Lane PS. The Invert must be lowered and upgraded to 9 36" pipe.		\$ \$ 115,000	No change	\$ 183,000	N/A \$		- N/A	
Nunting Creek North (Small WQTC)	RUDING RUDGE PS IMPROVEMENTS	S_HC_HN_NBO3_S_D3_C_A	No	PS Upgrades	2	Harrods Creek	1/20/1000-12	This alternative Includes upgrading pumps at Riding Ridge PS from 17,0PIA10 26 GPIA. This will give the PS a peak pumping Falte capacity of 0.075 MGO.		27	No change	5 27,000	M/A \$		- H/A	
Hunting Creek North (Small WQTC)	GUNPOWDER PS INUNE STORAGE	S_HC_HN_NBO2_S_09A_C_B	tio	Infine Storage	2	Harrods Creek	MSD1055-LS	This alternative tridudes replacing 100 th of 8° with 60° in fine storage pro-threaded and 28 th of pipe upgrades will be inceeded. That alternative tridudes replacen two 8° (total 1331 th) posts	5 176,000	\$ 138,000	No change	\$ 176,000	N/A S	A.	- н/л	
Hunting Creek North (Small WQTC)	FOX HARBOR INLINE STORAGE	S_HC_HIL_XIBO3_M_O9A_C_A	No	Inline Storage	10	Harrods Creek	51769	That alternative its loader replacing two 81 (total 333 UF) process upside and earlt of the For Harbor p7 LS with 741 and 801 ppts respectively, for For Harbor (11) instead (154 UF of 241 to 341) provided Advances pipes upside and of the list taken and a fewer the upstream lower of that pop (which will recover a loave drop microscie).	\$ 328,000	\$ 259,000	No thange	\$ 328,000	N/A \$	4	- IVA	
Hunting Creek South (Small WQTC)	FAIRWAY VIEW PS IMPROVEMENTS	S_HC_HS_NB01_S_03_C_A	No	P5 Upgrades	2	Harrods Creek	*******	Has alternative includes upgrading pumps \$1 Fativity View P5 to discharge (100, 100, 188, 120 GPM (previous) 88,69M e2th)	4	\$ 220,000	No change	\$ 87,000	IVA S	3	- NA	
ke Forest (Small WQTC)	LAKE FOREST PS \$50 INVESTIGATION	S_FF_UF_NB01_S_13_C_A	No	Monitor	(e)	Floyds Fork	MS01169-L5		S S	\$	No change	\$ -	N/A 5		- N/A	
Chenoweth Hills (Small WQTC)	ST. RENE RD PS INUNE STORAGE	5_FF_CH_HB01_5_09A_C_A	No	Inline Storage	2	Chenoweth Run	94187	This alternative includes reprising 42 U. of 8 With 48 pape. Not unstream of the PS.	\$ 30,000	\$ 23,000	Nochange	\$ 30,000	H/A \$		- N/A	

1-30 D.F.			Characteris	r	Totale	- 1 Danition		2007 Calibration		1.000	2012 Callbr	ation		Cost Difference		6.5.3
Watershed	Project Name	Project 10	Revisions Needed		Design		Overflow Points Addressed	Description & Total	Capital Cost	Present Worth	Description	Capital Cost	Present Worth	Capital Cost	Present Worth	Hotes
Cedar Creek	(DLEWOOD INLINE STORAGE	5_CC_CC_70158_M_09A_C	Ho	Inline Storage	2_	Cedar Creek	28998, 28984, 63094, 63095, 70158	This alternative includes in line storage with 995 U of (84° to 120°) pape to store wet weather peak flows. Also included are pipe upgrades for 1,747 U of open on (8° to 15°) sever to Thorease hydraulic capacity during will weather peak flows.	\$ -2,917,000	\$ 1,836,000	No change	\$ 2,317,000	\$ 1,836,000	\$	\$ -	
Cedar Creek	FAIRMOUNT RD PS IMPROVEMENTS	5_FF_CC_81916_M_03_C	No	PS Upgrades	10	E/g Ron	81316, 97362	Initial (3) 130 HP, 1750 gom pumps to Increase capacity	\$ 874,000	\$ 874,000	Ho change	\$ 874,000	\$ 874,000	\$	\$.	r c
Cedar Creek	LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	\$_CC_CC_67997_M_01_C	Yes	Pipe Upgrades	2	Utile Cedar Cree	67997, 67993 85423, 89195 89197, MOP 89190	This alternative includes upsiting 3,701 LF of open cut sewer and 215 LF of 21 immeting interceptor pipe in the area to increase hydraulic capacity during wet weather peak llows.	\$ 1,875,000	\$ 1,512,000	Raise MH 889190 1.5 ft, increase pipe size to 48 Inches for segment 67998, 67991, and 26130. Invert elevations lowered for segments.	\$ 2,006,000		5 131,000		Upstream development has caused the for a revision in the project approach
Cedar Creek	BARDSTOWN RO PS IMPROVEMENTS	5_CC_CC_MSD1025_S_03_B	No	PS Upgrades	5	Sig Run	EAS45	This alternative includes increasing the capacity of the pump stable with an additional 70% of hydraulic capacity to 0.53 IMGD so that evertifious do not occur upstream.	\$ 281,000	\$ 420,000	No change	\$ 281,000	\$ 420,000	\$	\$	
Codar Creek	running fox PS Elimination	\$_CC_CC_MSD1080_S_01_C	No	Diversion	7	Little Cedar Creel	WSD1080	Construct 375 IF of 8° gravity sewer to eliminate Running For PS. Existing P5 and force main will remain functional, but dormant, to allow for monitoring domestic and impacts of the _new diversion. If no impacts are noted, station will be eliminated and force main taken out of service. If downstream impacts arise, the P5 will be reconfigured to supplement the _capacity of the pey diversion line.	\$		No change	\$ 96,000	S 81,000	\$	N/A	
Hite Onek	MEADOWSTREAM PUMP STATION AND FORCE MAIN UPGRADE	S_HC_HC_MS01082_S_09A_C	Но	Inline Storage	2	Floyds Fork / South Fork Harrods Creek	91087, MSD1082-PS	The arising live Induces underground in line storage with the content in livent line to the PS, consisting of two, 120° diameter storage pipes each 238 If.	\$ 974,000	\$ 766,000	Upgrade to Meadowstream Pump Station and force main to allow for expansion in the Crestwood area. Hew solution accomodates design storm for 2 year cloudburst with buildout conditions; currently can support 57R w/ no ever	\$ 974,000	\$ 766,000	ş.	5	Afternate solution is being proposed. Pu station upgrade and new parallel force m In lieu of Inline storage.
Hine Creek	FLOYDSBURG RD WINVESTIGATION & REHABILITATION	5_HC_HC_MS03086_M_07_C	No	(/) Reduction	1	Floyds Fork	90776, 108956, 108957, 108958, MSD1085-PS	This isoStion will be fargisted for I/I source control (I/I rehabled birVille property program). A full SSES will be performed university of this 75.11 (I/I reduction is deemed universesful in climinating the 550) the performed attenuation will be implemented, which is Pump Station & Force Main Superades.	57000	\$ 57,000	ilo change	\$ 57,000	\$ 57,000	ş	N/A	
Hite Creek	KAVANAUGH RD PS IMPROVEMENTS	5_HC_HC_M501085_5_03_A	No	PS Upgrades	10	Hite Greek	MSD1085-P5	This afternative includes up tradity the Kavantugh Boad pump station to handle peak flows of 0.84 N/GO and upsite 7,458 UF	\$ - 1,110,000	大学の大学 日本 日本	No change	\$ 1,110,000	\$ 1,322,000		N/A	
Floyds Fork	WOODLAND HILLS FLOW DIVERSION	5_FF_FF_H601_5_01_C_A	Ко	Npe Upgrades	2	Pope Uck	33003,65531	This attentiable contains of epissing the Existing overflow and althoughter gale (to the vices) and folls pay in the acute to Existing overflow that contains of the Existing overflow that the Existing of Existing overflow that the Existing overflow that the Existing of Existing overflow that the Existing of Existing overflow that the Existing overfl	27000		No change	\$ 20,000	\$ 101,000 \$		N/A	
Floyds Fork	EOEN CARE PS 550 INVESTIGATION	S FF FF NBOZ S 13 C		Monitor	-	Floyd's Fork	MSD1105-P5	Monitor the Eden Cave PS duting Tain events for the heat three	7.14		No change	s -	- 5		H/A	
Floyds Fork	ASHBURTON PS IMPROVEMENTS AND DIVERSION	S_FF_FF_HEU3_M_O1_C_A	No	Upgrada Force Main & Pumps	2	Floyds Fork	MSD0165-PS (Olde Copper Ct), MSD0186-PS (Ashburton)	Monitor the Eden Case PS duffig Tain events for the heat thrist is a year's exporting to SORP protocols. This alternative indudes diverting flow from Ashburton PS by upgrading 370 U of force main firm 2 to 6 j and adding 11s. If of 8° gravity sever. Also eliminates the overflow at Older Copper 75.) ilinoc	3 111100	No change	\$ 115,000	\$ 112,000 \$		H/A	
Flóydi Fork	FAIRMOUNT ROAD PS OFFUNE STORAGE	N/A	Yes	Off Line Storage	2	Floyds Fork	Farmount Road Pump Station	New Project	NIA	N/A	This alterprity from the construction of 3.4 MG offline storage besin near the fairmoint Road Pump Station		\$ 13,434,000 \$	11,438,000	180	COURTO Presiment capacity limitations at Coder Creek and the significant peak we weather Down in the codection system bel diverted from Jeffesontoon WOTC, this storage is needed to integrate peak nown
Hersontown	IEFFERSONTOWN WOULD ELIMINATION	5_1T_1T_N801_01_C_A	Но	Replace/Diversion	2	Cherwweth Run	ISO28, 28390, 28395A, 31733, 64505 (WWTP and 28392 are documented not modelled)	Replace from Grassland to the WWTP. Storage at the plant and pump station with capacity of 10 MGD. Force Main. Installed to the likes lane interceptor.	\$ 53,770,512	5 - 50,704,525	No change	\$ 53,770,512	N/A \$		R/A	
llersontown	CHENOWETH HILLS WOTC ELIMINATION & PS IMPROVEMENTS	S_IT_IT_NBQIA_D3_C	No	Pump Upgrades	2	Chenoweth Run	64096, E6052, MSD0263, 92061	Upgrade Purips at MSD0196 (Chenoweth Run) to pump 2.65 EMSD and Upplic entire force main for Chenoweth Run to a	\$ 5,054,667	\$ 5,664,592	No drange	\$ 5,054,667	N/A \$		IVA	
(ersontown	DELL RD & CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	STITE MENDE OF C	Но	Conveyance	2	Chenoweth Run	28336, 28340, 28415, 28416, (28749, 28250, 28413, 28414, 28417, 101289 documented	12's Conveyance option for Network Branch 2. Jimpi ve supsting pipe d/s of Charlane (28336) and Dell (28415) road everifient unneling required under railroad for segment (28395 128393)) Altern	\$==1,735,364	No change	\$ 2,175,437	IVA \$		WA	
lersoni <i>oe</i> n	RAINTREE & MARIAN CT PH1 - PS EUMINATION	5_1T_1T_NB03_03_C	Ко	Diversion	2	Chenoweth Run	MS00148, MS00149, 28719, 28711	Divert flow from Mation CL. PS and Faintine PS With Installation of 8° gravity sever to SED. Update solvition for overflow 25676 in SED	\$ 1,551,097	\$ 1,267,108	No change	\$ 1,551,097	IVA \$	-	N/A	

	7	Project Ci	haracterist	tics	Terr	1	1	1 2007 Celibration		1 2 2 1 2	2012 Calibr	ation		Cost Difference	7	1000
Watershed	Project Name	Project ID	Revisions Needed	Project Type	Level		Overflow Points Addressed	Déscription :	Capital Cost	Present Worth	Description	Capital Cost	Present Worth	Capital Cost	Present Worth	Hotes
eHersonlawn	MOTITICELLO PS ELIMINATION	5_1T_1T_NB04_01_A	Ro	Diversion	10	Fern Creek	27969	ASSOCISE could be diverted to West County with - approximately 625 LF of 8" sewer.	\$ 380,458	\$ 306,75	1 Na change	\$ 380,458	H/A	\$	- N/A	
Nëddle Fork	UMF#2-PS DIVERSION & STORAGE	S_MISS_AU_NBO1_M_01_C_A1	Yes	Conveyance/Storage	2	Nöddle Fork	[5021, 08934517, 47583, 02937, 02932, 02933, 02935, 47593, 47596, 47693, 47604, 45385, 27005, 23211, 23212, 51160, 51161, 51221	Construct 30° Force Main Diversion to Hikes Lane Interceptor from Ex UMPPS. Construct Widdle Fork Reflet Interceptor between Oxmoor area and Middle Fork at Breckhridge. Construct 1.5 MG covered basin at Car Wash Site and 17 MG open basin at Buechel Site. Upsize Pipe D/S of MH 15138 to 18°.	\$ 52,814,000	\$ 47,644,000	Same Improvements as in 2007 only the portion of the Niddle Fork Interceptor Relief that was 24" in 2007 needs to be upsited to 30".	\$ 53,362,000	\$ 48,071,000	\$ 348,000	0 \$ 427,000	Restring due to model calibratio
Middle Fork	GOOSE CREEK PS PH1 - DEVONDALE PS VVV STORAGE & GOOSE CRK PS PH2 - PS & FORCE MAIN UPGRADES	S_MI_MF_NBON_M_03_B_A	Yes	Force Ma'n Upgrades, Storage	5	Goose Creek	21628-W, 46891, 91629, 91630, 105936, 43472	Construct 0.5 M/G storage basin near Devondale Pump Station. Replace 16" portion of GCPS with 20" FM. Upgrade GCPS to 7.2 M/GD, Replace Sourel Rd 4" FM with 6" FM.	\$ 4,957,000	\$ 4,854,000	Same improvements as in 2007 only the GCPS needs to be upgraded to 7.95 MGD instead of 7.2 MGD.	\$ 5,477,000	\$ 5,271,000	\$ 525,000	\$ 417,000	
Middle Fork	ANCHOR ESTATES - ARCHOR ESTS PS 1 & 2 PS EUMINATIONS / VANNAH PS EUMINATION	S_MI_MF_NB06_M_01_B_C	Но	Pipe Storage at Pump Station, Eliminatio of Pump Station	s	Middle Fork	D1106, D0746, N/SD0057	Eliminate Anchor & 1 Pump Station, Pipe Storage (721) at Anchor #2 Pump Station, Eliminate Vanuah Way Pump Station and remove bypass pipe	\$ 2,037,000	\$ 1,642,000	No change	\$ 2,037,000	N/A	\$	N/A	
Southeast Diversion	PARKVIEW ESTATES VI INVESTIGATION & REHABILITATION	5_50_MF_NB03_01_C	No	Conveyance	5	Pond Creek	47250	Construct 7,400 LF of 10" relief sewer from 47250 parallel to Rustic Way to existing 24" Interceptor.	\$ 945,000	\$ 763,000	No change	\$ 945,000	ti/A	ś	. N/A	
Southeast Diversion	KLONDIKE INTERCEPTOR	S_SO_MF_NBON_OX_B_A	No	Conveyence	5	South Fork	25676	Construct 2,830 LF of 30" relief interceptor from 25576 to the Hilles Lane Interceptor. This conveyance project was originally a 12" interceptor but then combined with the 1-Town 24" // Force Main diversion resulting in a 30" gravity.	\$ 1,611,000	5 1,098,000	No change	\$ 1,611,000	N/A	5	N/A	
Southeast Diversion	SUTHERLAND INTERCEPTOR	\$_\$0_JMF_NB05_01_8	Ho	Conveyance	10	South Fork	16549	Construct 570 LF of 18° and 1760 LF of 15° Interceptor in place of existing 10° from murriale 16649 to BGI.	\$ 585,000	\$ 477,000	No change	\$ 586,000	N/A	\$	N/A	
Fond Creek	CHARLESWOOD INTERCEPTOR EXTENSION	S_PO_WC_PC03_M_01_C	No	Pipe Upgrades	2	Fishpool Creek	25477, 25476, 25480, MSD0130-PS	This alternative includes upstring 1,846 IF of open cut sewer (mostly in rock) downstream. This estimate does not include the Cooper Chapel PS elimination but the Charleswood Subdivision interceptor will eliminate Cooper Chapel PS and require capacity increases downstream.	\$ 603,000	\$ 490,000	No change	\$ 603,000	H/A	\$	N/A	
Pond Creek	CINDERELIA PS EUMINATION	S_PO_WC_PCOL_M_DJ_C	Но	Diversion	2	Fishpool Creek	35309, 60679, MSD1013-PS	Eliminate Cinderella P5 by constructing 2,250 LF of 10° pipe	\$ 2,205,000	\$ - 1/42,000	No change	\$ 2,205,000	N/A	\$.	N/A	
Pond Creek	LANTANA PS I/I INVESTIGATION & RENABILITATION	5_PO_WC_PC05_M_07_C	Но	1/1 Reduction	2	Pennsylvania Run	25484, 93719, M5D0101-P5	This location will be targeted for this ource control (Vi rehabland private property program). Cost is for 4000 LF of SSES. —————————————————————————————————	20052026	20,000	No change	\$ 20,000	N/A	\$	N/A	
Pond Creek	GOVERNMENT CENTER PS ELIMINATION	5_PO_WC_P006_M_01_C	Yes	Diversion	2	Pennsylvania Run	MSD0180 PS	Eliminate Government Center PS by constructing 1374 LF of 12	\$ 1,225,000	971,000		\$ 1,412,000	\$ 1,121,000	\$ 187,000	\$ 150,000	
Pond Creek	AVANTI PS EUMINATION	S_PO_WC_PC07_M_01_A	No	Diversion	10	Uttle Cedar Creek	21220 W	Water of the second sec	This was the a Company	\$ 20,000	tunneling required.	\$ 31,000	N/A	\$	H/A	
Pond Creek	LEA AHN WAY SYSTEM IMPROVEMENTS	S_PO_WC_PCOS_M_DI_C	•	Pipe Upgrades	2	Fern Creek / Northern Ditch	19360, 19359, 29933, 25943, 29948, 31083, 31084, 79076, MSD1010-PS	This attenuative has other times the next seed Less Arra May PS with \$255 Me Dependance were (2010 Test) upstream— Units over this Lapracian the over 1691;		\$ 179000 C#	Substantial SSES projects have been completed for the upstraam collection system. Sewer rehabilitation is beginning in the area. Impacts of overflows from this work along with the pipe upgrades will be monitored for performance. Additional work will be performed as needed.	\$ 827,000	\$ 679,000	\$	7	Froject cost may change as full propo revisions to IOAP are developed.
- leafy? - Color of	OUTER LOOP & CAVEN AREA PIPE UPGRADES	5_PO_WC_PC09_M_098_C	No	Pipe Upgrades	2	Pond Creek/ Mud Creek	17724, 27116, 70212, Caven Ave PS (MSD0133-PS)	This oldernative includes 1,536 U of pipe upsized to 18" downstream of AH 702121	\$1 - 211,000	5 585,000	No change	\$ 731,000	N/A	\$.	II/A	
Pond Creek	OUTER LOOP, VAN STORAGE	S IPO WC P009 M 098 C		Off-Line Storage		Pond Creex /	17724, 27116, 70212, Caven	This alternative includes an off-line pumped storage basin		\$ 4,439,000	2010 cat brated model improvements in legicates the storage basin is no longer.				10	Proposed for elimination due to a m
				***********		Mud Crebb	Ave PS (ASSOCIATION)	(closed 1.42 MS) behind the Nicker on Presion Highway Z	\$ 4,280,000		needed to relieve suicharging in the system.			\$ (6,280,000)	9809005	lightly calify at od separate system mo this area.
ond Creek	CAVEN AVENUE WWW STORAGE	5_PO_WC_PC09_M_09B_C	No	Off-Line Storage	2	Pond Creek/ Mud Creek		This afternative includes an off-five gravity storage (covered p = 20,21 MG) at Cavan Avenue PS	\$ 1,073,000	\$ 1,070,000	Ho change	\$ 1,073,000	II/A	\$ -	N/A	The state of the s
and Creek	LEVEN PS ELIMINATION	S PO_WC_PC10_M_D1_C	No	Diversion	2	Pennsylvania Run	36419, MSD1019-P5	Eliminate Leven PS by constructing \$90 LF of 10° pape. 1.	\$ 376,000	\$ 305,000	No change	\$ 376,000	H/A	5	H/A	
ond Creek	EDSEL PS I/1 I/N/ESTIGATION & HEHABILITATION	5_P0_WC_PC11_M_07_C	No	1/1 Reduction	2	Fern Creek	92098, MSD1048-P5	This location will be targeted for (/) source control ((/) rehab and private property program).	5 367,000	\$ 367,000	No change	\$ 367,000	H/A	5	N/A	
ORFM	MELLWOOD SYS 1 - MELLWOOD PS & FORCE MAIN & MELLWOOD SYS 2 - WINTON & MOCKINGBIRD PS EUM & PIPE UPGRADES	5_OR_ME_NBO1_D1_B	No	Diversion	.5	ORFM	MSD0018, MSD0007, 26752, 41416, MSD0023, 24472, 7ASD0024, 41374, 24152-\V	Construct Diversion Grawity Sever for MSD0010, MSD0007, Increased Convayance at MSD0023, Updy's portion of U/s gravity sever for MSD0007	\$ 4,945,922	\$ 4,144,929	No change	\$ 4,945,922	N/A_	\$	N/A	
ORFIA	LELAND RD SSO HIVESTIGATION	5_OR_MF_NB02_01_B	No	Relief Sewer	5	ORFM	96020	Approximately 325 LF of 8" relici sewer from 96018 to 19916.	\$ 91,050	\$ 75,875	No change	\$ 91,050	H/A	\$ -	N/A	
ORFM	DERINGTON CT PS I/I INVESTIGATION &	5_OR_MF_N803_09_B_A	No	Inline Storage	5	ORFM	(2)	Inline Pipe Storage (285 LF ~ 78° RCP) upstream of MSD0095.	\$ 670,950	524,620	No shange	\$ 670,950	8/A	\$	N/A	
ORFM	PROSPECT #1 - WYTC ELIMINATIONS, PROSPECT #2 - HARRODS CHEEK PS & PROSPECT #3 - ORFM SYSTEM IMPROVEMENTS	5_0R_MF_NB04_03_R_B	No	Pump Upgrades/Prospect Diversion	5	ORIM	MSD0123, 22436, 40870, 40871, 40872, 42680, 65633, 65635, MSD0192, MSD0183, MSD0193 and MSD1044	Converging Alternative for the OIC's Li Upsite of Interceptor (privaing I Myddy Fort N. Upsite of Interceptor (privaing I Myddy Fort N. Upsite of Upsite III (MSO)QLL p5) and (MSO)QLL p6) and (M	\$27/235,000	īW	ito change	\$ 27,235,000	N/A	ş	N/A	

2012 Draft SSDP Project Re-Assessment

	T	Project (Characterist	ics				2007 Calibration		wardst au	2012 Cali	bration		Cost Differen	ice	
Watershed	Project Name	Project ID	Revisions Reeded	Project Type	Design Level	Receiving Stream	Overflow Points Addressed	Description 1	Capital Cost	Present Worth	Description	Capital Cost	Present Worth	Capital Cost	Present	Hotes
Marek	SHIVELY INTERCEPTOR	5_MC_VC_NB01_M_01_A	No	Pipe Upgrades	10	Mal Creek / Heatherfield Ditch	04498, 04542, 81814-W, MSD0047-PS, MSD0050-PS	Construct 18,830 IF of new granty sewers [10" + 27") to efficient pump stations. This is the Shively Interceptor capital improvement project.	\$ 16,419,000	\$ 17,982,000	No change	\$ 16,419,00	tVA :	\$	- IU/A	
M571 Creek	EAST ROCKFORD LANE PUMP STATION UPGRADE	5_MC_WC_H802_5_03_C	Но	Pump Station Replacement & Relocation	2	AVII Creek	04639-\V	Rélocus and replace Last Rockford PS at 300 GPM, 150 Uf of 41 force main will be replaced. Additional 150 Uf of 10°, prayity	\$1 - 3,044,000	S notes	No change	\$ 1,044,00) H/A		- 11/A	
errytown (5mall WQTC)	LUCAS UN PS INUNE STORAGE	S_FF_BT_NBQ1_S_09A_C_A	No	Inline Storage	2	Goose Creek	MSD0199-15	This alternative includes finsibiling two 90 LE long \$41 wide parallel storage pipes that branch off the gravity man prior to the Locas Lane PS. The invertinuit be lowered and upgraded \$100 \$61 pp.	1000)	\$ 145,000	No change	\$ 183,00	HA S		- R/A	
lunting Creek North (Small WQTC)	RIDING RIDGE PS IMPROVEMENTS	S_HC_HN_N801_5_03_C_A	Na	PS Upgrades	2	Harrods Creek	MSD3060-15	This alternative includes upons due pumps at Riding Riding Ps from 17 GPM to 26 GPM. This viril pine the Ps a peak pumpin rate capacity of 0.075 MoD.	1 2	\$ 27,600	No charge	\$ 27,000	N/A S		- н/а	
Hunting Creek North (Small WQTC)	GUNPOWDER PS INUNE STORAGE	S_HC_HN_NBOZ_S_09A_C_B	No	Iniine Storage	2	Harrods Creek	MSD1055-15	This alternative includes replacing 120 LF of B. with 60° in line in addition, 28 LF of plot upgrades will be 12 needed.	access .	\$ 138,000	No shange	\$ 176,000	H/A S	J. T.	- 11/A	
Hunting Creek North (Small WQTC)	FOX HARBOR INUNE STORAGE	S_HC_HN_NBO3_M_09A_C_A	tto	Inline Storage	10	Harrods Creek	62769	This afternative includes replacing two 83 (Total 133 IF) pipes: Uptive amendess to the Fox Harbor 82 LS with 24° and 60° pipes respectively. For Fox Harbor 83 Install 1194 IF of 24° to 54°) par still storage pipes upstream of the lift station and flower life bostneam invertiof that pipe (which will require a new drop methods).		\$ 259,000	No change	\$ 328,000	H/A S		- IVA	
lunting Creek South (Small WQTC)	FAIRWAY VIEW PS IMPROVEMENTS	5_HC_RS_NB01_5_03_C_A	No	PS Upgrades	2	Harrods Creek	MSD1065-PS	This alternative includes upgrading pumps at Fairway View PS to discharge: 100, 100, and 120 GPM (occupously 88 GPM each)	\$ 87,000	\$ 220,000	No change	\$ 87,000	N/A \$		- N/A	
wqrc)	LAKE FOREST PS \$50 INVESTIGATION	S_FF_LF_NB01_S_13_C_A	No	Monitor	ارتكي	Floyds Fork	MSD1169-L5	Morator the Lake Forest PS during rain events for the next three years according to SORP protocols.	\$	\$	No change	5	N/A S		- N/A	
enoweth Hills Small WQTC)	ST. RENE RD PS INUNE STORAGE	S_FF_CH_NB01_S_09A_C_A	No	Inline Storage	2	Chenoweth Run	94187	This alternative includes replacing 42 LF of 8" with 48" pipe	\$ 30,000	\$ 23,000	. No change	\$ 30,000	N/A S		- R/A	



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Budget ID ACI		The state of the s		THE R. P. LEWIS CO., LANSING, MICH. 491	
	ACD Project Number	Project Name			
		AVAYTI PS ELINDATION	Complete	Date Completed	ACD Date
HOB357 SINKING FORK RELIEF SEWER	EWER	SINKING FORK RELIEF GEWER	Yes	28-Jul-09	28-Jul-09
A09092 S.FF FF NB03 M 01 C.A	¥	ASHBURTON PS IMPROVEMENTS AND DIVERSION	Yes	23-Dec-09	23-Dec-09
H09169 S FF FF NB01 S 01 C A		WOODLAND HILL BY DATE SHOW	Yes	22-Jan-10	31-Dec-21
H09178 S_CC_CC_MSD1080 S 01 C	υ	RINGING BOX DE ET PLAN ATTION	Yes	1-Apr-10	30-Jun-11
	BEECHWOOD VILLAGE SANTTARY SEWER REPLACEMENT	REPCHWOOD WILL AGE 64 AFTER AND	Yes	5-Apr-10	31-Dec-10
H09432 L. SO MF 121 S 12 A		BRIVE COAT COST ACTION OF WENT REPLACEMENT	Yes	29-Sep-10	27-Apr-11
		THE STRUCT GOING OF CAMPBELL AND MAIN) PERMEABLE ALLEY	Yes	8-Oct-10	31-Dec-10
		W. GAULBERT & W. HILL (formerly SEVENTEENTH AND W. HILL) PERMEABLE ALLEY	Yes	15-Oct-10	31-Dec-10
		2300 BLOCK OF CONGRESS STREET (formerly SEVENTH AND MARKET) PERMEABLE ALLEY	Yes	11-Nov-10	31-Dec-10
	DEN PROJECT	CLIFTON TRIANGLE AREA RAIN GARDEN	Yes	01-Nov-11	21 Dec 10
	DEN PROJECT	BRANDIES APARIMENTS RAIN GARDEN	Yes	OLYGON 31	or Dec-10
		MSD MAIN OFFICE PARKING LOT BIOSWALE	3 2	Of-obst-Ci	01-Dec-10
H10140 SEP PROJECT		CHEROKEE PARK STREAM RESTORATION	55.	3-Dec-10	31-Dec-10
H09427 L OR MF 198 S 12 A	×	THIRD AND ORMSBY BIOBIOFILITATION SWALES	168	3-Dec-10	23-Mar-11
H09239 S.SD.MF_NB06_S_13_C		BEARGRASS INTERCEPTOR REHABILITATION ou 2	, Lo	12-Dec-10	31-Dec-10
H09172 S.HC.HC_MSD1086 M. 97_C.A	LCA.	FLOYDSBURG RD M INVESTIGATION & REHABILITATION	, Yes	14-Dec-10	31-Dec-10
H09428 LOR MF 022 S 12 A		6TH & MARTIN LITTURE LYNG (formal, Arm Arms of the Arm	Yes	17-Dec-10	31-Dec-10
H09128 L_SO_MF_108_S_09A_B_A 4	4.4	CSO 108 DAM MODIFICATIONS	Yes	28-Dec-10	31-Dec-10
H09429 L.OR_MF_028_S 12 A		BOLISTICA ATTENDED OF A STATE OF	Yes	30-Dec-10	31-Dec-10
1		SCHOOL AD HOUSE I VEKEEN KUCH (ISTRICT) SIXIH AND BROADWAY RAIN GARDEN)	Yes	30-Dec-10	31-Dec-10
		SCHOLACH HOUSE UNDER FARKLING LOT (formerly TWELFTH AND JEFFERSON)	Yes	30-Dec-10	31-Dec-10
		SECTION AND CENTS OFFICE PARKING LOT	Yes	30-Dec-10	31-Dec-10
	ION INTERCEPTOR	STAT I COMMAN GUERN PROJECT (JOTHWAY SECOND AND BROADWAY GREEN PARKING LOT)	Yes	30-Dec-10	31-Dec-10
T	TO THE PERSON OF	NOK! HEAN DIVERSION INTERCEPTOR	Yes	16-Feb-11	31-Jul-11
		POND CREEK TRAIL SEP	Yes	19-Feb-11	23-Mar-11
		GOVERNMENT CENTER PS ELIMINATION	Yes	1-Apr-11	31-Dec-24
1		PARKVLEW ESTATES IJ INVESTIGATION & REHABILITATION	Yes	28-Jun-11	30-Jun-11
		HAZELWOOD PS I'M INVESTIGATION & REHABILITATION	Yes	30-Jun-11	30-Jun-11
		SONNE PUMP STATION IRI INVESTIGATION & REPABILITATION	Yes	30-Jun-11	30-Jun-11
		CAMP TAYLOR#1 - SSES	Yes	8-Jul-11	31-Dep-11
		EDSEL PS IN INVESTIGATION & REHABILITATION	Yes	27-Sep-11	30-Sep-11
1	7-4	ANCHOR ESTATES- VANNAH PS ELLAMATION	Yes	15-Oct-11	31-Dec-13
	O WOTC	CPE/CCP MODIFICATIONS TO WQTC	Yes	19-Dec-11	31-Dec.11
		EAST WASHINGTON @ ADAMS STREET GREEN DEMOSTRATION PROJECT (formetly 1.264 ON-RAMP DRY WELL)	Yes	19.Dec. 11	31.00
		GRAWENMAYER HALL PARKING LOT (formerly the 1-264 AND GIBSON DRY WELL)	ν.	Ph.Dec.11	T. Decrit
		SPEED ART MUSEUM INFILTRATION TRENCH (formerly the 1-264 OFF-RAMP DRY WELL)	Ves	20.00-11	The state of the
		3RD STREET AND CAMPBELL VENTURES GREEN PROJECT (formerly JFK MONTESSORI AREA DRY WELL)	λ,	20-Dec-11	11.000.11
	EN PROJECT	GERMANIFARISTOWN GREEN STREET RAIN GARDEN	Yes	20-Dec-11	21 Per 11
H09219 S.M. MF. NB07 S. 07 C		HURSTBOURNE LÆI INVESTIGATION Æ REHABILJTATION	Yes	27.Dec.11	or Dec-11

ACD Guidolino Dates 5-7-12 ates

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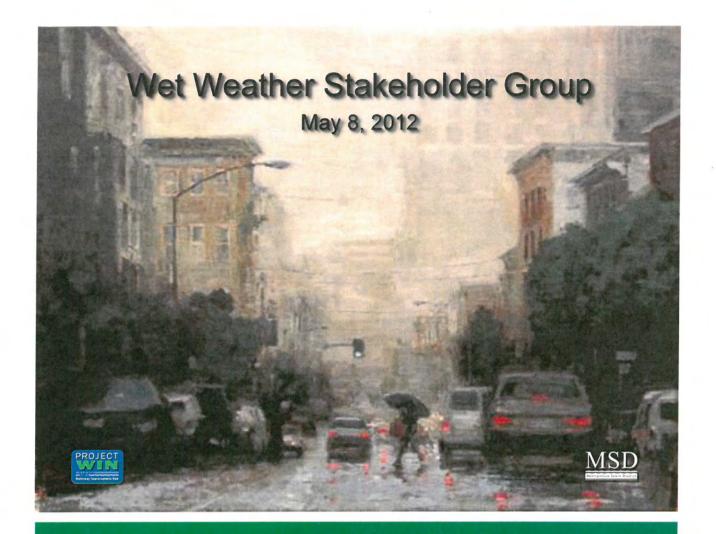
THE STATE OF		CSOCIAL PROPERTY		1000 miles 1	2012/01/12/01/20
Budget ID	ACD Project Number	Project Name			
H09193	S PO WC PC05 M 07		Complete	Date Completed	ACD Date
H09445	1	LANTANA PS IJ INVESTIGATION & REHABILITATION	V.		
Diloda		WILSON CROSSENGS GREEN PARKING LOT (formerly THE RUSSELL LEE DRIVE DRY WELL)	g	29-Dec-11	31-Dec-11
100	-1	BROWN-FORMAN GREEN ROOF PROJECT (former) BARDSTOWN RD PRESENTERIAN CHIMINAL	Yes	30-Dec-11	31-Dec-11
H09190	\neg	DERINGTON CT PS 1/1 INVESTIGATION & REHART TRAINING	Yes	30-Dec-11	31-Dec-11
A09091	S_MC_WC_NB02_S_03_C	EAST ROCKFORD LANE BY BEI DOATION	Yes	30-Mm-13	31-Mar-12
B06208	S MC WC NBOL M OLA	SHIVELY NITER CENTOR	Yes	30-Mar-12	31-Dec-21
H00303		PATRICIAL OR IN AN AVERAGE TO	Yes	13-Apr-12	31-Dec-14
H08358		SOUTH OF THE STATE	Yes	24-Apr-12	21-Day 72
E) 1026		SUCTEEAS) DIVERSION STRUCTURE & INTERCEPTOR	Ver	10 400	2000
H08478	1	HINE LANE INTERCEPTOR & HIGHGATE SPRINGS PS	on N	12-144-61	1May-12
H08477		34TH STREET FLOOD PUMP STATION	2		27-Nov-12
Hobias		4TH STREET FLOOD PUMP STATION	ONT		31-Dec-12
05150		ADAMS STREET STORAGE BASIN	No		31-Dec-12
104247		CSO 123 DOWNSPOUT DISCONNECTION	No		31-Dec-12
H09170		EDEN CARE PS SSO INVESTIGATION	No		31-Dec-12
H09173	S.FF.LF_NB01_S_13_C_A	LAKE FOREST PS SSO INVESTIGATION	No		31-Dec-12
H09189	S_OR_ME_NB02_S_13_C	LELAND RD SSO DVPSTIGATION	No No		31-Dec-12
A09556	S OR MF NBOL M OL B	MELLWOOD SYS I - MELLWOOD BS 4. EGGS 4. AS STATES	No		31-Dec-12
H09126	L_OR_MF_019 S_03_A_A	27TH STREET FLOOD PUMP STATION	S.		31-Dec-12
H09136	L_OR_MF_189_M_03_A_A	SHAWNEE FLOOD PI MP STATION	No		30-Jun-13
H09131	L.M.MF.206.S.CS.A.A.0	CSO 206 SEWER SEPARATION	No		30-Jun-13
H09220	S_SF_MF_30917_M_09_A	CAMP TAYLOR 27- REDI ACE GENTERS	No		30-Dec-13
H09127	LOR MF 020 S 09B B A S	STORY AVENUE AND MAIN CORPUS COMPANY C	No		31-Dec-13
H07288	S_MISF_MF_NB01_M_01_C_A1	DIVERT - RIECHET BASEN	No		31-Dec-13
H09138	L_OR_MF_190_S_03_A_A	17TH STREET OF OOD WITHOUT STREET	No		31-Dec-13
H09130	LOR MF 058 S 08 A A 0	CSO Age convers which is a LALION	No		31-Dec.14
H09177	S_HC_HS NB01 S 03 C A	TAY THE SEW EN SIZE AREA JULIA	No		ST. Deer 14
H09121	L MI MF 127 M 09B B A 8	FALKWAY VIEW PS IMPROVEMENTS	No		100000
H09124	LOR MF 015 M 13 B B 8	J-64 AND GRUNSTEAD DRIVE STORAGE BASIN	cZ.		SI-Dec-14
H09175	S HC HN NBOI S OF A	PADDY'S RUN WET WEATHER TREATMENT FACILITY	c _N		P1-Dec-14
H09238	S IT IT NBOLA M OS C	KLDING RIDGE PS IMPROVEMENTS	o.Z.		51-Dep-14
H09143	1 SO ME 003 8 D0 4 4 D	CHENOWETH HILLS WOTC ELIMINATION & PS IMPROVEMENTS	2		#[-DDT-10
The section	COUNT WAS A US A A C	CSO 093 SEWER SEPARATION	04.7		31-Dec-15
710	L_ML_ML_140_S_08_A_A_0	CSO 140 SEWER SEPARATION	ON		31-Dec-15
H09134	LOR MF 160 S CS A A 0	CSO 160 SEWER SEPARATION	No		31-Dec-15
H07293	S.JT.JT.NBOLM.OLC.A	JEFFERSONTOWN WOTC ELIMINATION	No		31-Dec-15
H09199	S.SD.MF.NBO4.S.01.B.A	KLONDKE INTERCEPTOR	No		31-Dec-15
C08433	S_PO_WC_PC08_M_01_C	LEA ANN WAY SYSTEM IMPROVEMENTS	No		31-Dec-15
D94206	S OR ME NBO4 M 03 B B	PROSPECT #1 - WOTC ELIMINATIONS	No		31-Dec-15
D94206	S OR MF NB04 M 03 B B	PROSPECT #2 - HARRODS CREEK PS	°Z	,,,	31-Dec-15

	A THE RESIDENCE OF THE PROPERTY OF THE PROPERT	(Sorted By Date Completed)			Tarrie a service
Budget ID	ACD Project Number	Project Name	Complete	Date Complesed	
H10045	S_MI_MF_NB06_M_01_A_A-1	ANCHOR ESTATES ANCHOR ESTS PS & 2 PS ELIMINATIONS		patridino area	ACD Date
H09174	S_HC_HC_MSD1082_S_09A_C	MEADOW STREAM PS INLINE STORAGE	9V. 2		31-Dec-16
H09140	L_SO_ME_018_S_03_A_A	NIGHTINGALE PUNE STATION REPLACEMENT	ON :		31-Dec-16
H09195	S_PO_WC_PCO9_M_09B_C	OUTER LOOP & CAVEN AREA PIPE UPGRADES	No		31-Dec-16
	S_OR_ME_NB04_M_03_B_B	PROSPECT #3 - ORFM SYSTEM IMPROVEMENTS	oN :		31-Dec-16
H09145	L_SO_MF_130_S_09B_B_A_8	STORY AVENUE AND SPRING STREET STORAGE BASIN	o.		31-Dec-16
H09137	LOR MF 190 S 098 B.A.S	18TH AND NORTHWESTERN PKY STORAGE BASIN	o.		31-Dec-16
H09146	L_SO_MF_097_M_13_A_A_S	BEARGRASS CREEK PARALLEL INTERCEPTOR	ON :		31-Dec-17
H09218	S_SF_MF_30917_M_09_A	CAMP TAYLOR #3- REPLACE SEWER & REHABILITATION	on s		31-Dec-17
	L_SO_MF_087_M_09B_B_D_8	CAVALRY - CREEKSIDE STORAGE BASIN	S.		31-Dec-17
H09142	L_SO_MF_052_M_09B_B_D_S	LOGAN STREET AND BRECKENRIDGE ST STORAGE BASIN	ov.		31-Dec-17
H09139	LOR MF211_M 13_B_A_8	ALGONOUM PARKWAY STORAGE BASIN	No.		31-Dec-17
H09123	L_MU_MF_154_M_09B_B_A_8	CLIFTON HEIGHTS STORAGE BASIN	% ;		31-Dec-18
H09132	LORME 105 M 13 B A O	SOUTHWESTERN PARKWAY STORAGE BASIN	ON.		31-Dec-18
H09125	L_OR_MF_019_S_13_B_A_8	PORTLAND WHARE STORAGE BASIN	ov :		31-Dec-18
H09133	L OR MF 155 M 09B B B 4	13TH STREET AND ROWAN STREET STORAGE RASIN	ON		31-Dec-19
MULTIPLE		GREEN INPRASTRUCTURE PROGRAM	ov S		31-Dec-20
1	L_SO MF 083 M 09B B A 8	LEXINGTON ROAD AND PAYNE STREET STORAGE BASIN	ov ,		31-Dec-20
H09165	S_CC_CC_MSD1025_S_03_B	BARDSTOWN RD PS IMPROVEMENTS	NO. 170		31-Dec-20
H09176	S_BC_HN_NB03_S_09A_A_A	FOX HARBOR INLINE STORAGE	OV.		31-Dec-21
H09242	S HC HN NB02 S 09A C B	GUNPOWDER PS MUNE STORAGE	No.		31-Dec-21
H09166	S FF BI NB01 S 09A C A	LUCAS IN PS DILINE STORAGE	0%		31-Dec-21
08160H	S_IT_JT_NB03_M_01_C	RAINTREE & MARIAN CT PHI - PS FITMINATION	No.		31-Dec-21
H10043	S.T. T. NB03 M. OI. C.	RAINTREE & MARKAN CT PS PH2 PIPE UPCRADE	No		31-Dec-21
H09168	S.FF.CH.INB01_S_09A_C.A	ST. RENE RD PS INLINE STORAGE	No		31-Dec-21
C94103	S_PO_WC_PCG3_M_01_C	CHARLESWOOD INTERCEPTOR EXTENSION	ON X		31-Dec-21
	S_TI_JI_NB02_M_01_C	DELL RD & CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	201		31-Dec-22
	S_PO_WC_PCIO_M_01_C	LEVEN PS ELIMINATION	200		31-Dec-22
	S_IT_IT_NB04_M_01_A	MONTICELLO PS ELIMINATION	2		31-Dec-22
	S_SF_ME_30917_M_09_A	CAMP TAYLOR #4-REHAB & OFF LINE STORAGE	ov.		31-Dec-22
	S_PO_WC_PC04_M_01_C	CINDERELLA PS ELIMINATION	2		7-30/1-1c
= 1	S_CC_CC_70158_M_09A_C	IDLEWOOD DAINE STORAGE	O. A.		31-Dec-23
	S_SD_MF_NBOS_M_01_A	SUTHERLAND INTERCEPTOR	. N		of Des ye
H09186	S MSF MF NBOL M OL C.A.	UME #2-PS DIVERSION & STORAGE	No.		31-Dec-23
	o and it while the load	IN REDUCTION PROGRAM	No		30-Dec-24
-	S TO ME STED TO SE	CAVEN AVENUE WW STORAGE	No		31-Dec-24
	S MI ME NEO4 M 03 B	GOOSE CREEK PS PHI - DEVONDALE PS WW STORAGE	No.		31-Dec-24
H)0044	S MI MF NBO4 M 03 B	GOOSE CRK PS PH2 - PS & FORCE MAIN IPGRADES			-

ACD Guidoline Dates 5-7-12 xixx

APPENDIX A

Budget ID	ACD Project Number	Project Name	25.60		
H09171	HO9171 S HC HC MSD10RS S O3 A	the state of the s	Complete	Date Completed ACD Date	ACD Date
	W. Co. Co. Co. Co. Co. Co. Co. Co. Co. Co	NAVANAUGH KD PS IMPROVEMENTS	*7		1
H09163	H09163 S CC CC 67997 M 01 C	LITTLE CEDAR CREEK INTRECEPTOR INDRINGATIVE	000		31-Dec-24
Tronion		TOTAL	No		31-Dec-24
1103100	TUSTON SOR ME NEOL M OL B	MELLWOOD SYS 2 - WINTON & MOCKINGBIRD PS ELIM & PIPE UPGRADES			
H10046	H10046 IS PO WC PC09 M 09B C	Office 1 Acts 1111/ once 1 and	No		31-Dec-24
	CHOCKER OF THE	COLER COOP WW STORAGE	oz.		at Den 7.



Objectives

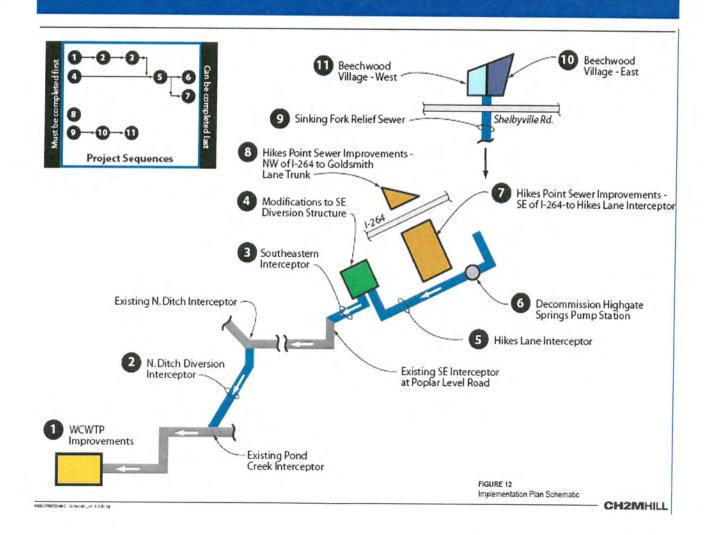
- Welcome
- Agenda Review & Ground Rules
- Progress Report
- Draft Charter for WWT Stakeholder Group
- IOAP Modification Review
- IOAP Revision Process & Schedule
- Public Involvement Meetings

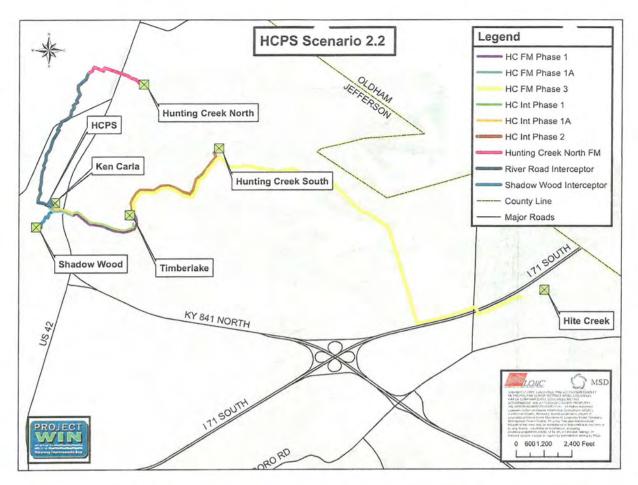


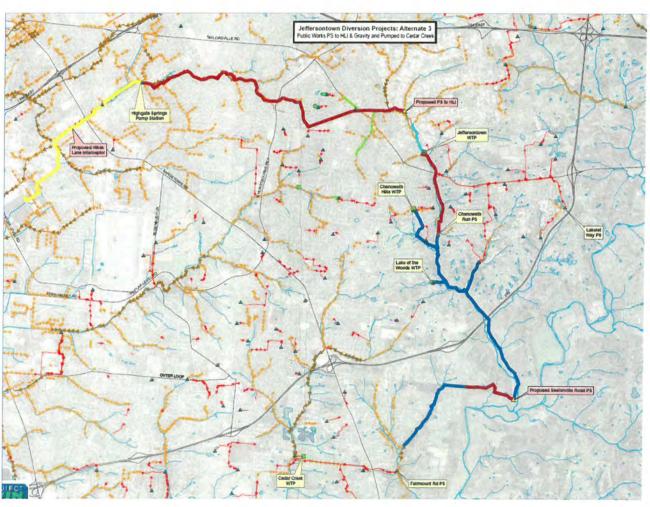
IOAP IMPLEMENTATION PROGRESS

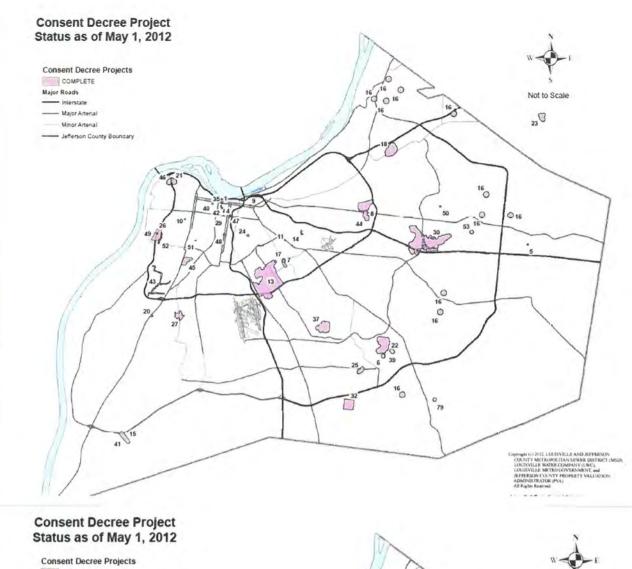


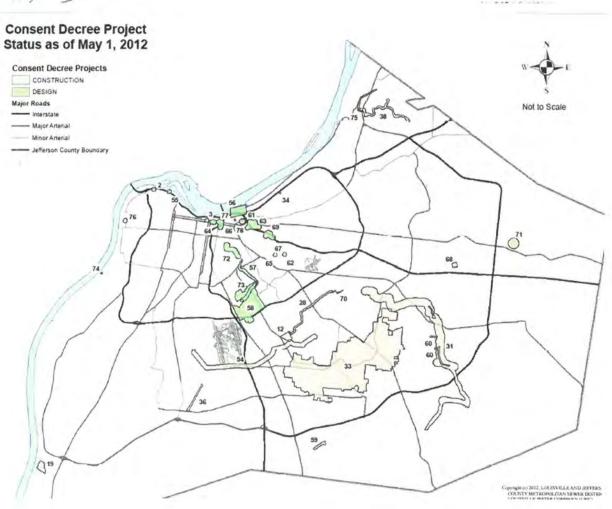












Implementation Progress*

- 25 Projects in Design
- 12 Under Construction
- 46 of 119 Certified Complete (incl. green demonstration)
- Big Four Projects approx 0.5% under budget
- IOAP approx. 30% under budget
- * Budget statistics are assuming uniform internal force account, then comparing current capital budget for completed projects to 2009 IOAP budget projections







DRAFT STAKEHOLDER CHARTER



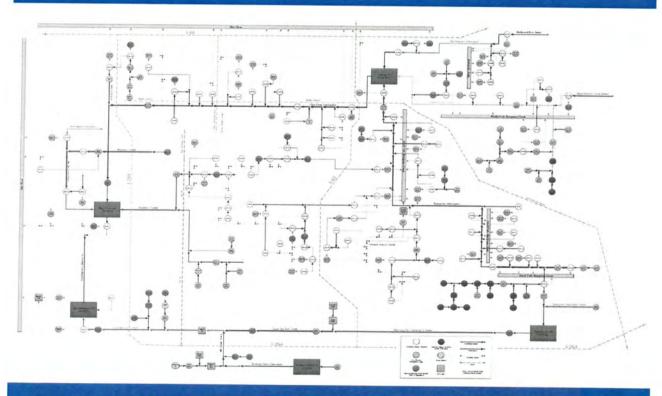


Draft Revised Charter WWT Stakeholder Group

- Background Section updated to detail activity through IOAP submittal and regulatory approval
- Stakeholder Process updated to detail activity performed
- Stakeholder Expectations updated to detail process for development and submittal of the IOAP 2012 Modification
- Stakeholder Membership added to detail process for fulfilling obligations of the Amended Consent Decree







IOAP MODIFICATION REVIEW





2009 CSO Long Term Control Plan

- 19 Gray Infrastructure Projects
 - 4 Sewer Separations
 - 13 Storage basins
 - Replacement and expansion of Nightingale Pump Station
 - 1 High-Rate Wet Weather Treatment Facility
- Green Infrastructure Projects 17% of Gray Program
 - Demonstration projects
 - Bioswale/biofiltration
 - · Rain garden
 - Pervious alleys
 - · Infiltration dry wells and sink holes
- 9 Flood Pump Station Projects for DWO's
- · Green to Gray 'Right Sizing' Allowable

2009 Sanitary Sewer Discharge Plan

- · Gray infrastructure
 - 16 conveyance capacity
 - 19 storage
 - 10 pump station upgrades or expansions
 - 1 wastewater treatment expansion
- Source control program 15% of Gray





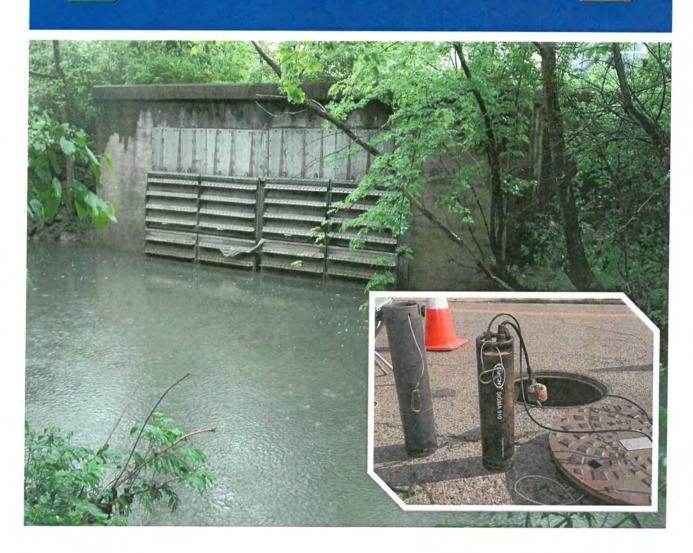
IOAP Volume 1, Chapter 6.5.3.6 Adaptive Management

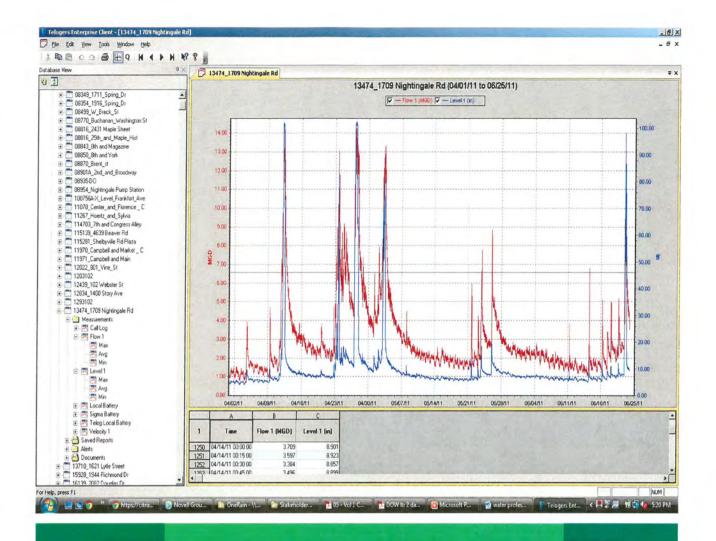
Adaptive management makes use of project performance measurements, such as sewer flow monitoring, observations of overflow events at known trouble spots, and KPDES permit reporting

to compare the actual effectiveness of the overflow abatement measures to the assumed performance that served as the basis for design and planning. Observed results will be used to "right-size" subsequent projects to ensure overall IOAP objectives are achieved.

Preliminary Discussions w/ regulators underway







2012 Project Calibration

- Program Costs Still at \$850 Million
- Several projects grew significantly in size and cost or are new
- · Others shrank or disappeared
- Overall program benefits increased
- Schedule revisions are to be proposed

Project Revision Summary

(see project handout for more details)

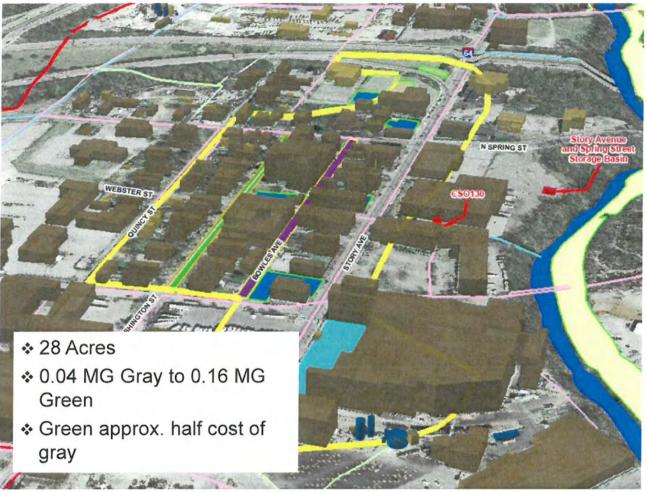
- 7 projects got larger
- 3 projects have higher overflow reduction targets, 1 lower
- 7 projects got smaller
- 12 projects forward some split from other projects
- 4 projects backward green & size
- \$850 million capital cost





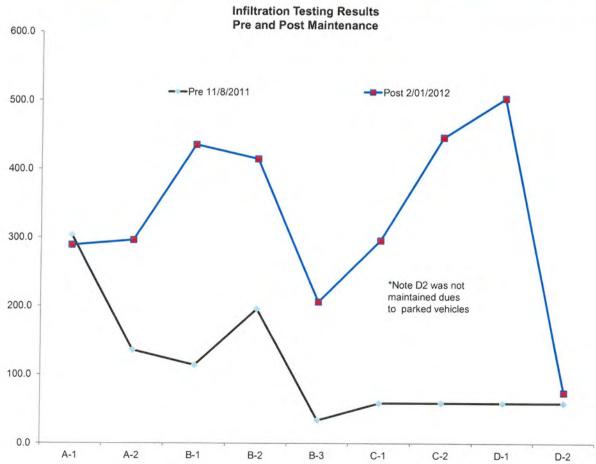
Mod Highlights

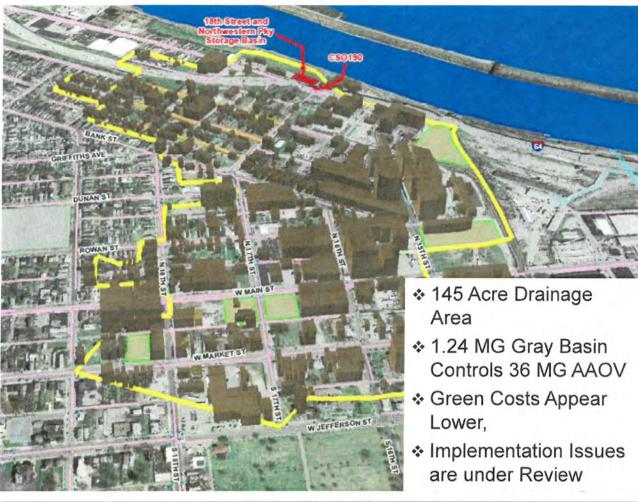
- I-64 & Grinstead; Fairmount Storage
- Story & Main; Algonquin Storage
- CSO130 Green to Gray Mod
- CSO190 Consideration of Green

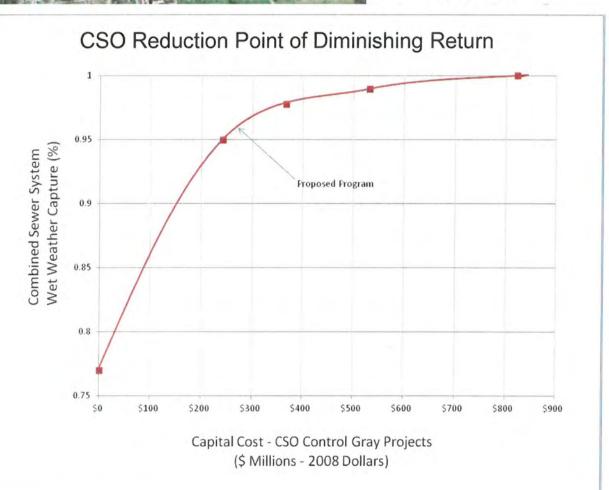


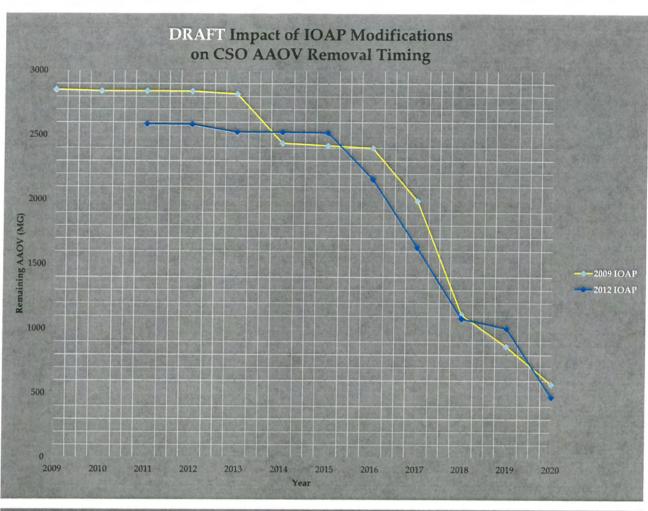


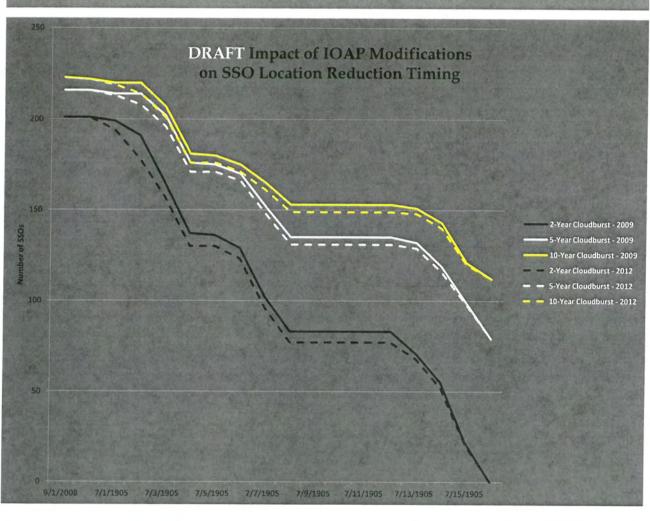


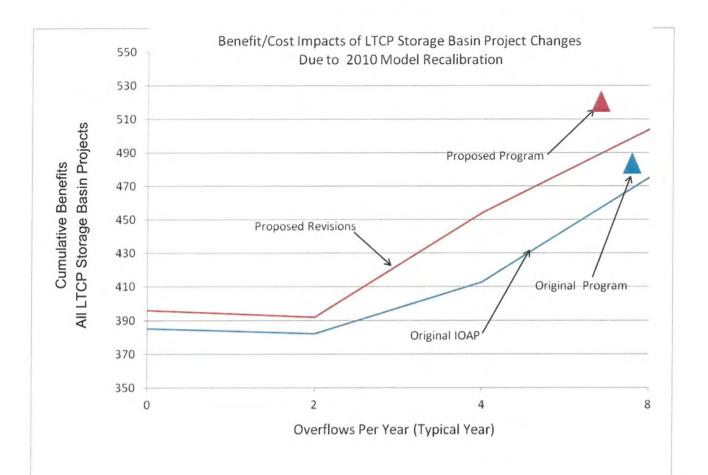














IOAP REVISION SCHEDULE





<u>Schedule</u>	<u>Timeframe</u>	Complete
IOAP Vol. 1, 2 & 3 Markup for Potential Revision	Feb-2012	X
EPA, KDEP & MSD Meeting (Atlanta)	Feb-2012	X
Overflow Report Submittal - prelim email for discussion	Mar-2012	X
Overflow Report Submittal - certified package	Mar-2012	X
WWT Stakeholder Group Proposal - prelim email for discussion	Apr-2012	X
IOAP Project Schedule Justification Package EPA/KDEP Submittal	May-2012	
WWT Stakeholder Group Meeting	May-2012	
First Round Public Input Meetings	May-2012	
IOAP Revisions for EPA/KDEP Submittal - First Draft	Jun-2012	
Submittal to EPA/KDEP - First Draft	Jun-2012	
EPA, KDEP & MSD Meeting	Jul-2012	
IOAP Revisions for Public Input	Aug-2012	
Second Round Public Input Meetings & Web posting	Sep-2012	
IOAP Revisions for Public Comment and Submittal	Sep-2012	
Production for Submittal (Web posting and DVD at libraries)	Sep-2012	
Submit Notice of 30-day Public Comment Period	Oct-2012	
Public Hearing (14 days after notice)	Oct-2012	
Compile Responsiveness Document	Nov-2012	
Board Approval	Nov-2012	
Final IOAP Submittal to EPA/KDEP	Nov-2012	
RROJECT		1401





PUBLIC INVOLVEMENT MEETINGS





NIA Center – May 10, 6:30-8:30 p.m. 2900 W. Broadway

Focus On:

- Program Mod Overview
- CSO190 Green Project Suite
- Paddy's Run High Rate Treatment Center
- Southern Outfall Relief Inline Storage
 1 & 2

Jeffersontown Community Center May 15, 6:30-8:30 p.m. 10671 Taylorsville Road

Focus On:

- Program Mod Overview
- Jeffersontown Treatment Center Elimination

Jeffersontown Community Center May 15, 6:30-8:30 p.m. 10671 Taylorsville Road

Focus On:

- Program Mod Overview
- Jeffersontown Treatment Center Elimination

Harrods Creek Fire Department May 17, 6:30-8:30 p.m. 8905 U.S. Hwy 42 in Prospect

Focus On:

- Program Mod Overview
- Prospect Treatment Center Eliminations