

Sewer Overflow Abatement Public Input Meeting

Meeting Topics

August 14, 2012

Sewer Overflow
Abatement Program
Overview

Butchertown Green
Infrastructure Project

Nightingale Pump Station
Project in Camp Taylor
Area



Sewer Overflow Abatement Plan



Presentation Objectives

- Sewer Overflow Abatement Plan Overview
- Project Completion Progress Report
- How You Can Help!
- Proposed Overflow Abatement Plan Modifications
- Public Input Request

Combined Sewer Overflows



Sanitary Sewer Overflows



SSOs

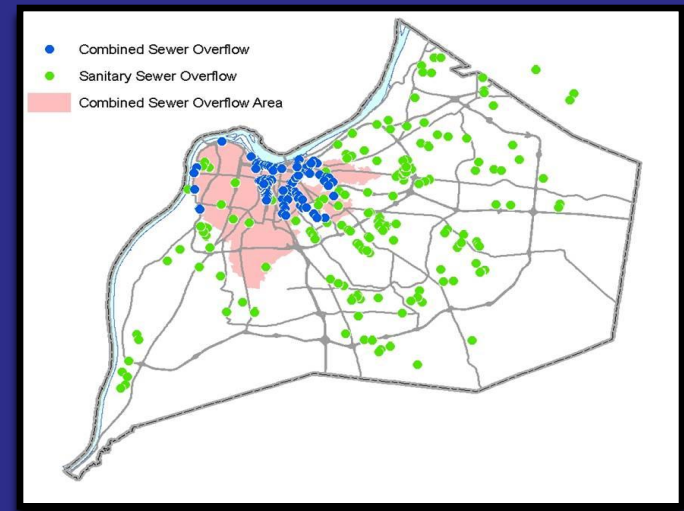


2005 Federal Consent Decree

Amended in 2009

On CSOs

- ▶ CSOs allowed in wet weather; must not cause or contribute to stream water quality impairment
- ▶ CSOs in dry weather prohibited
- ▶ Complete program by 2020



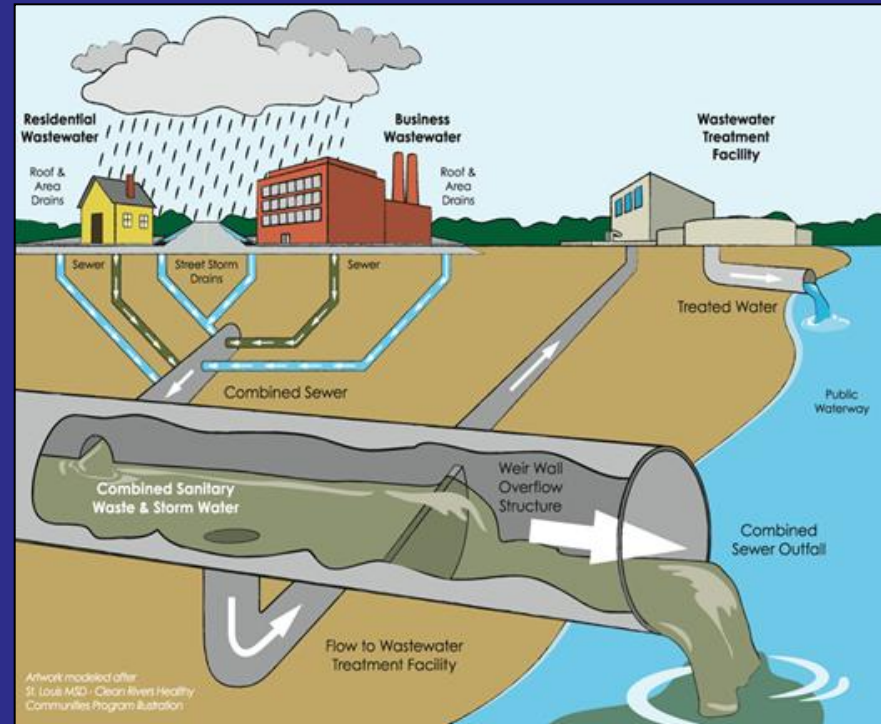
On SSOs

- ▶ SSOs in dry & wet weather prohibited
- ▶ Complete program by 2024

Combined Sewer Overflow

Challenges

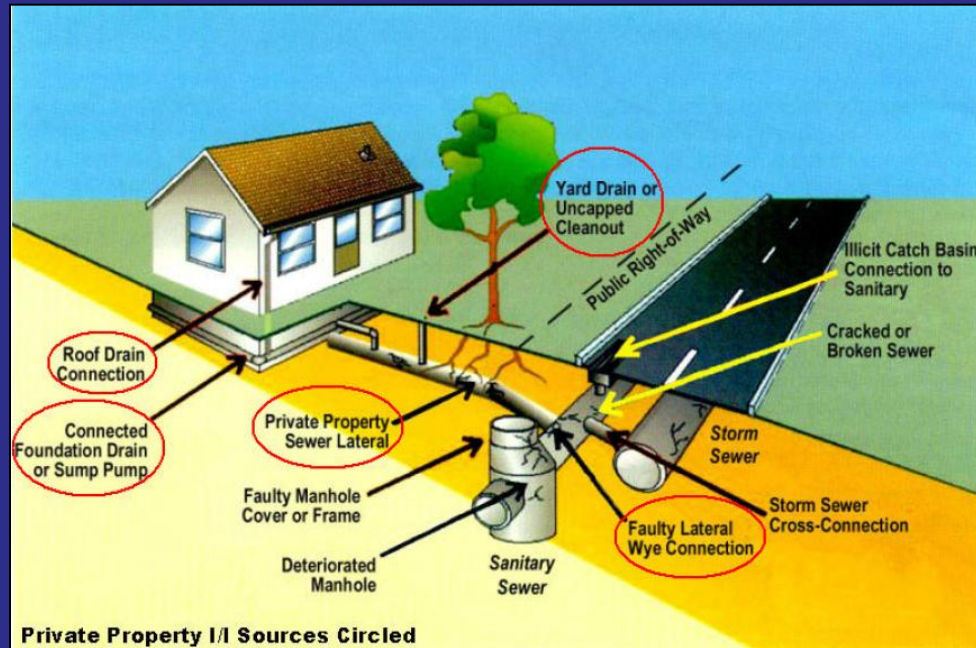
- Stormwater sewers & sanitary sewers were built to operate in “combined” pipe
- Wastewater treatment not sized for stormwater
- Groundwater sump pumps & stormwater downspouts connected to sanitary sewer from private property

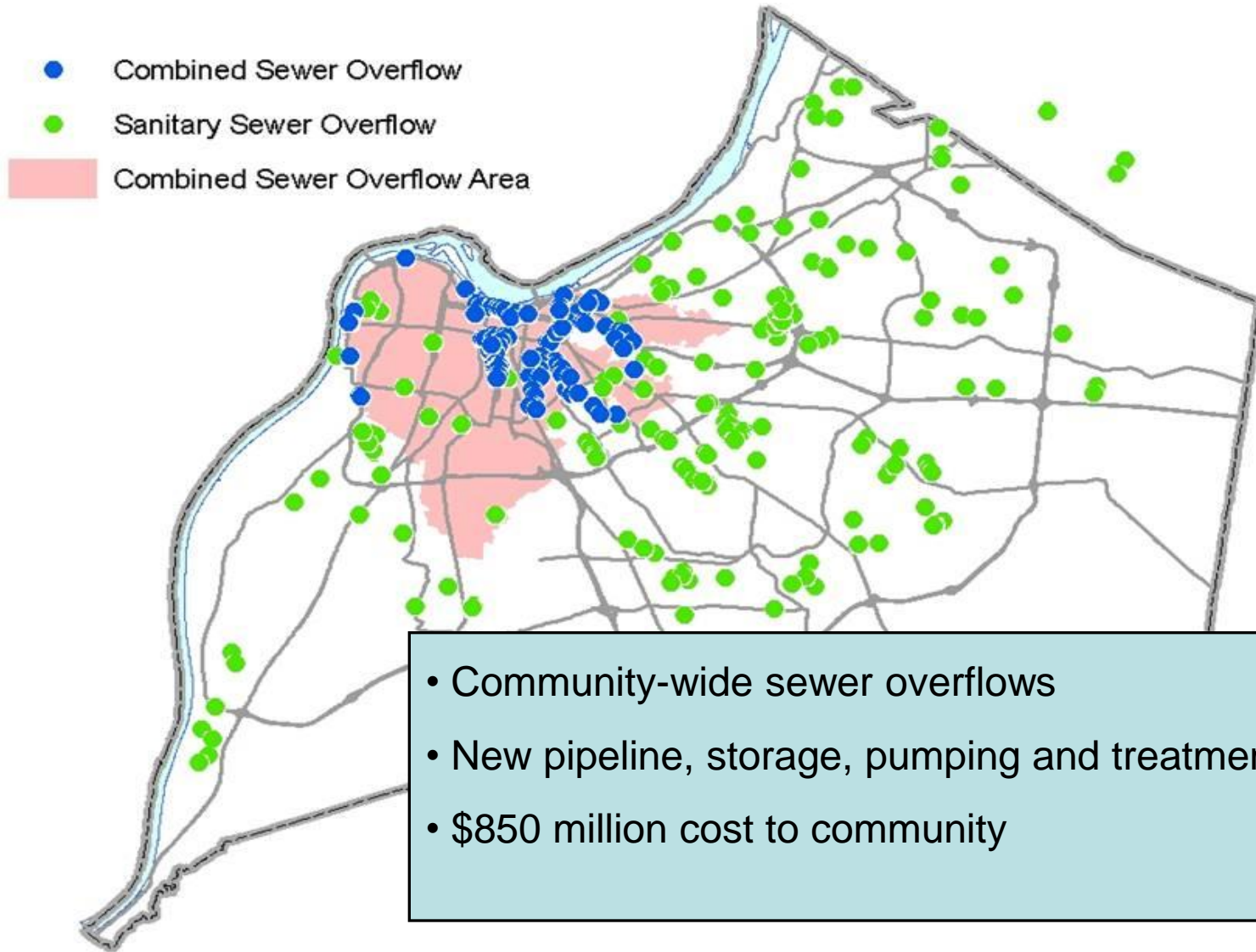


Sanitary Sewer Overflows

Challenges

- Sanitary sewers have deteriorated over time, allowing clean water entry into public system
- Groundwater sump pumps & stormwater downspouts connected to sanitary sewer from private property make up 50% of extra flow





CSO Projects 2009 Plan

- **Gray Infrastructure Projects**
 - Sewer separations & modifications
 - Storage basins
 - Replacement and expansion of Nightingale Pump Station
 - 1 High-Rate Wet Weather Treatment Facility
- **Green Infrastructure Projects**
- **Flood Pump Station Projects**



SSO Projects 2009 Plan

- **Gray infrastructure**
 - Conveyance pipeline projects
 - Storage basins
 - Pump station upgrades or expansions
 - 1 Wastewater treatment expansion
- **Source control program**
 - Stormwater downspouts
 - Groundwater sump pumps

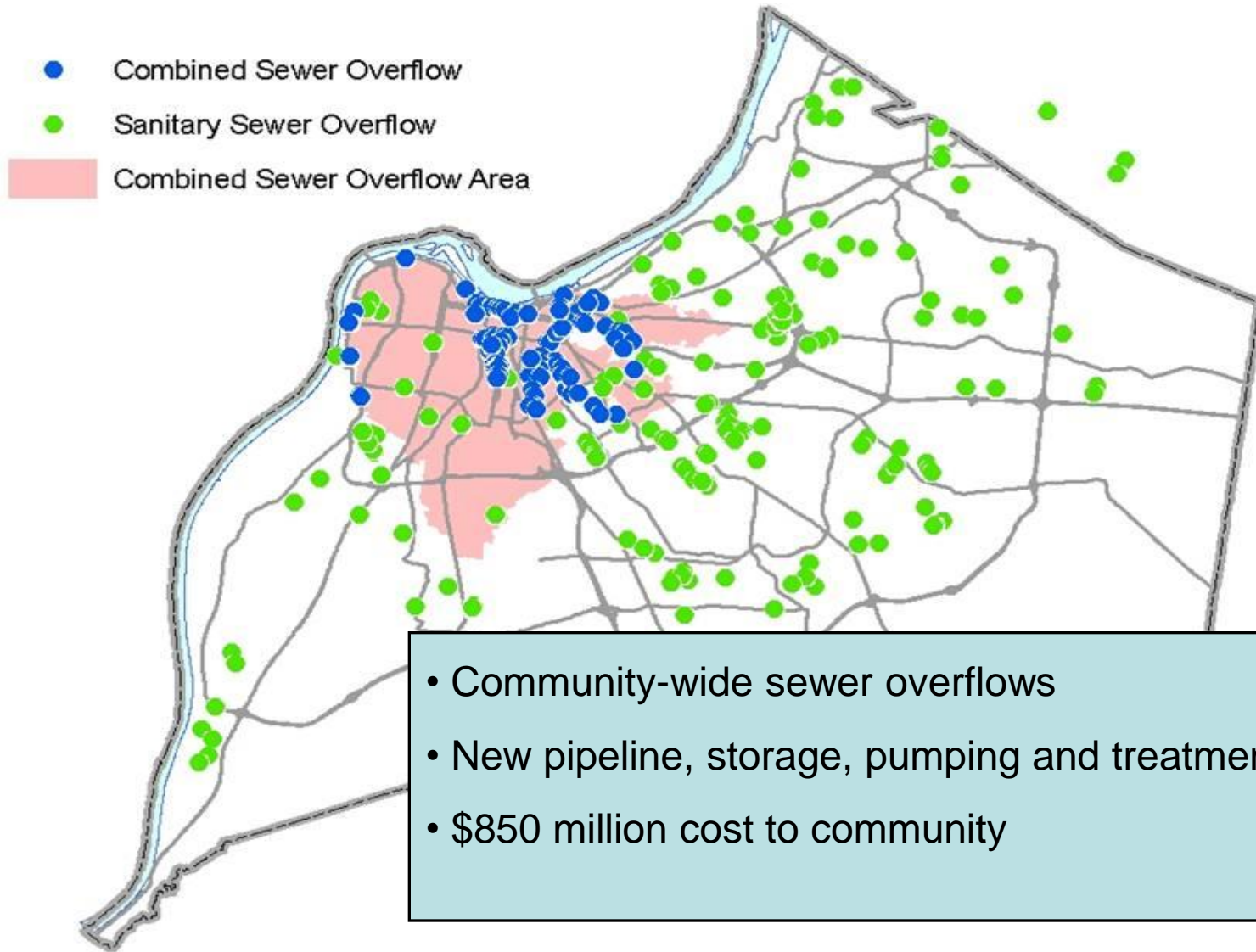


Smoke testing on public sewer indicates downspout connection

Implementation Progress

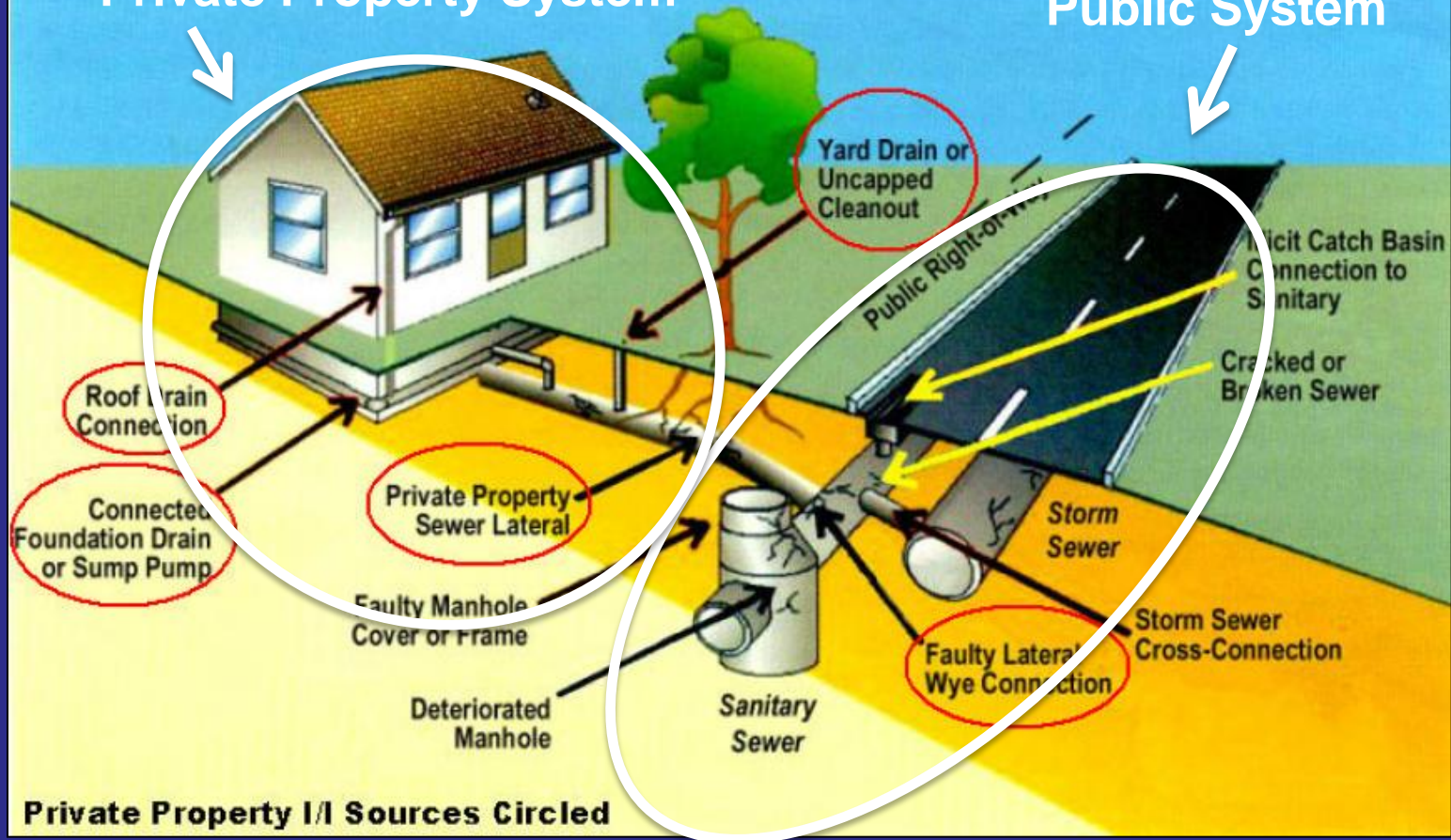
First Five Years

- **Gray Infrastructure Projects**
 - 25% completed
 - 20% in design or construction
- **Green Infrastructure Projects**
 - 25 completed
 - 40 in design or construction
 - 30% of program budget committed
- **I/I Reduction Projects**
 - 9 rehab/replacement projects completed
 - 8 rehab/replacement projects in design or construction
- **Overall program**
 - About 25% complete
 - About 5% under budget, compared to original IOAP estimates



Private Property System

Public System



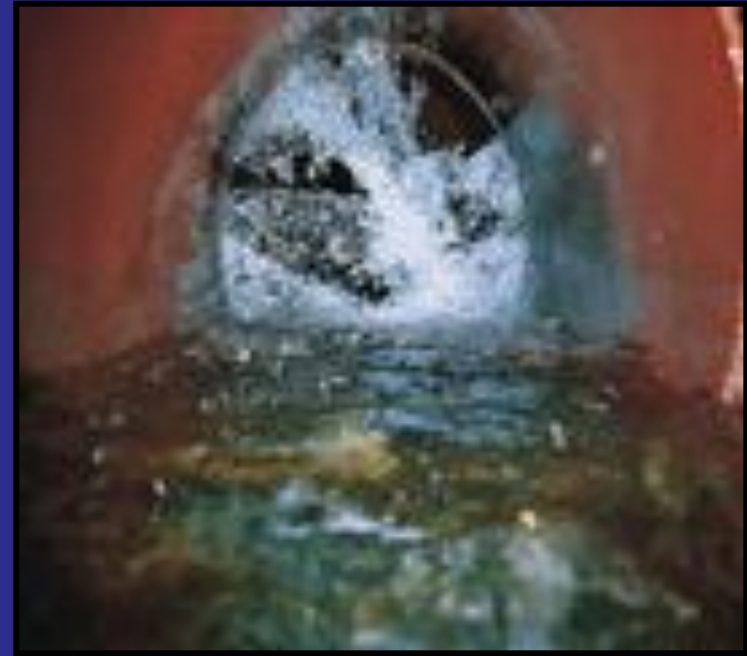
Private Property I/I Sources Circled

What You Can Do To Help!!

Fix private sewer laterals that connect buildings to the main sewer “leaky laterals”

Sanitary Sewer Line Replacement Program

587-0603



What You Can Do To Help

Disconnect sump pumps
from the sewer system
- Outlet to the ground or
stormwater system

**Plumbing
Modification
Program
587-0603**



What You Can Do To Help

- Capture rain from down spouts to use for watering your gardens and landscaping
 - Rain barrels
 - Rain gardens
- Turn downspouts onto the ground



What You Can Do To Help!!

Conserve water during & right after rain storms

- Only use dishwashers & washing machines if absolutely necessary to put less water in the sewers
- Only run full loads



What You Can Do To Help

Put fats, oils & greases
in the trash

NOT down the drain!!!!



Grease accumulates in pipes



**Put hot grease in metal
container, let cool,
TRASH!**

Project WIN Website - msdprojectwin.org

The screenshot shows the Project WIN website homepage. The browser window title is "Project Win > Home". The website header includes the Project WIN logo on the left, the tagline "Improving Our Community Waterways Together" in the center, and the MSD Metropolitan Sewer District logo on the right. A navigation menu below the header contains links for "Home", "About Us", "How You Can Help" (circled in red), "Projects", "Library", and "Public Input". Below the navigation menu, it says "Your are here: Home" and a search bar with the text "search keywords" and a "go" button.

The main content area features a large blue banner with the text "We Want You to Share Your Thoughts!" and "MSD is pleased to announce the next sewer overflow abatement project review and input public meetings on August 14, 2012." Below this text is a "Read More" button. To the right of the text is a photograph of a public meeting. The photograph shows a man in a suit speaking at a podium with the MSD logo. Behind him is a large screen displaying a presentation slide titled "Overview" with the following bullet points:

- Why and How the Original Plan was Developed
- Why and What are the Proposed Changes
- Previous Public Input
- Significant Opportunities for Other Providers
- Moving Forward

Below the banner is a section titled "COLLABORATING PROJECTS" with a horizontal carousel of six small images showing various construction and infrastructure projects. Navigation arrows are visible on the left and right sides of the carousel.

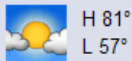
Project WIN is MSD's program to respond to the Federal Consent Decree. Project WIN includes a series of sewer overflow reduction projects defined in the Integrated Overflow Abatement Plan (IOAP) . [read more](#)

Use our interactive map to locate MSD sewer overflow abatement projects across the MSD service area. [read more](#)

Although we sometimes take it for granted, the conditions of our streams, creeks, and the Ohio River impact our quality. [read more](#)

Public Notices

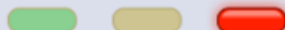
Current Weather



H 81°
L 57°

Jeffersontown Blending

Overflow Advisory Level



Upcoming Events

5/8/2012 - Wet Weather Team Stakeholder Group

5/10/2012 - IOAP Public Input Meeting at the NIA Center

5/15/2012 - IOAP Public Input Meeting at the Jeffersontown Community Center

5/17/2012 - IOAP Public Input Meeting at the Harrods Creek Fire Department

[More Events](#)

Links

- BROCHURES
- FACT SHEETS
- FAQ
- INTERACTIVE MAP
- JUST FOR KIDS
- QUARTERLY REPORT
- PRESS & NEWS
- CHECK LOCAL RAINFALL
- CSO/SSO LOCATIONS

Contact Us

PHONE
(502) 587-0603

EMAIL
ProjectWINInfo@LouisvilleMSD.org

SIGN UP FOR
ALERTS & NOTIFICATIONS

Library



JUST FOR KIDS

You Tube

View us on YouTube.
[click here](#)

Proposed Project Modifications



Measure Twice, Cut Once

IOAP Volume 1, Chapter 6.5.3.6

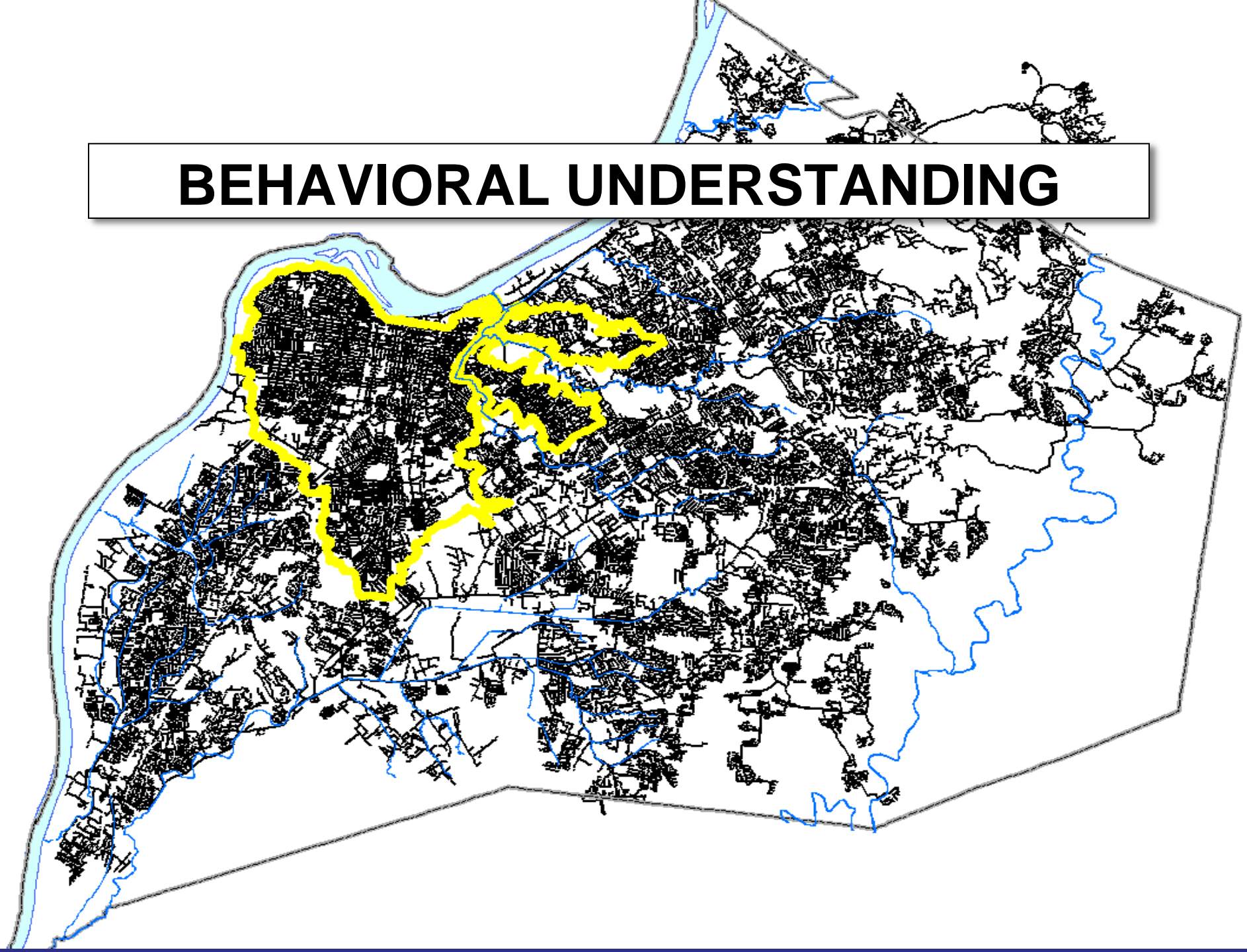
Adaptive Management

Required Overflow Reduction Targets

- Improve system monitoring
- Re-calibrate & upgrade sewer models
- Run behavioral statistics on overflows
- Review project approaches & sizing
- Negotiate modifications as needed
- Must be based on established community value system

Preliminary Discussions w/ regulators underway

BEHAVIORAL UNDERSTANDING



CSO Outfall

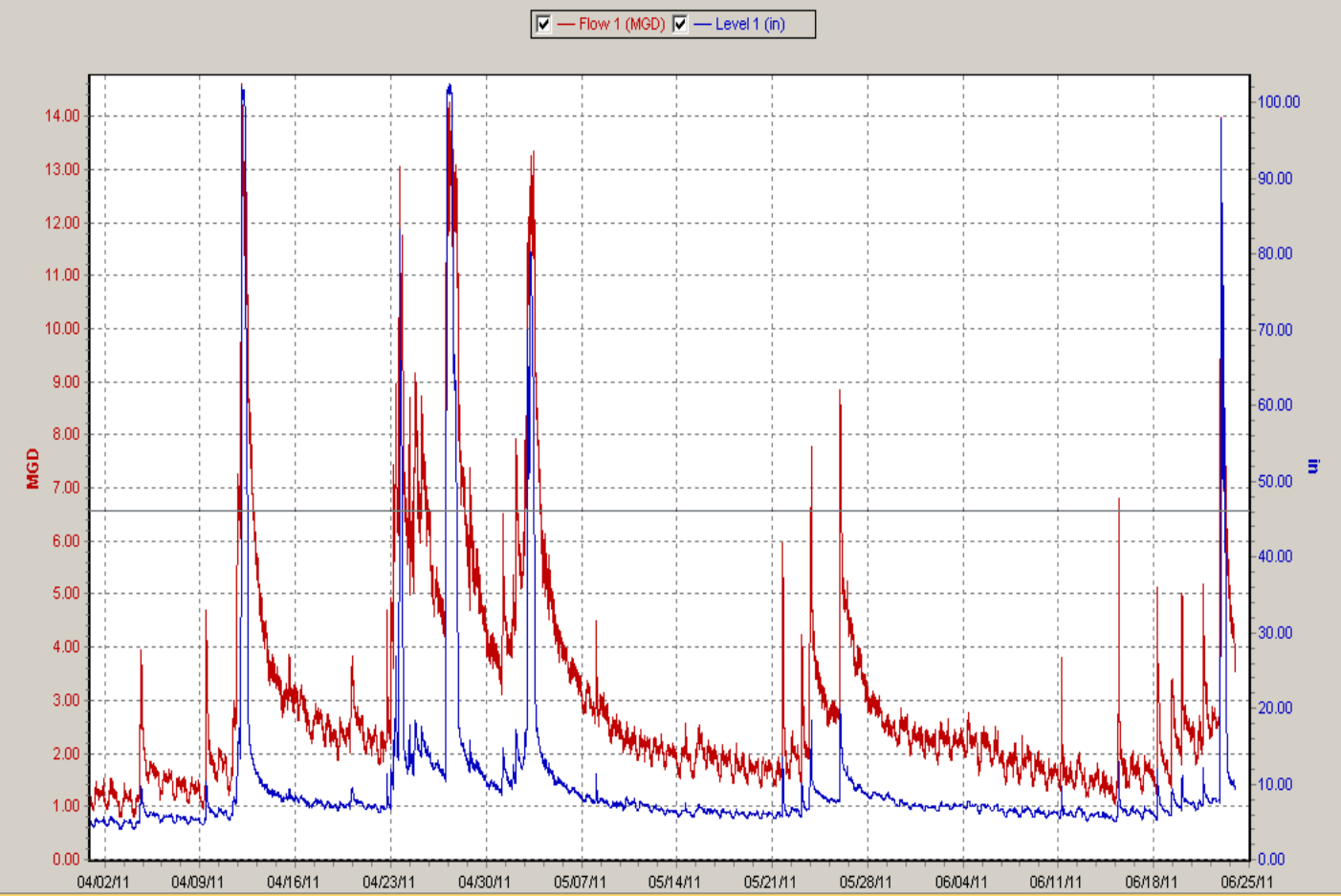


Flow Meter

- 08349_1711_Spring_Dr
- 08354_1916_Spring_Dr
- 08499_W_Breck_St
- 08770_Buchanan_Washington St
- 08816_2431 Maple Street
- 08816_25th_and_Maple_Hist
- 08843_8th and Magazine
- 08850_8th and York
- 08870_Brent_st
- 08901A_2nd_and_Broadway
- 08935-00
- 08954_Nightingale Pump Station
- 100756A-X_Level_Frankfort_Ave
- 11070_Center_and_Florence_C
- 11267_Hoertz_and_Sylvia
- 114703_7th and Congress Alley
- 115139_4639 Beaver Rd
- 115281_Shelbyville Rd Plaza
- 11970_Campbell and Market_C
- 11971_Campbell and Main
- 12022_801_Vine_St
- 1203102
- 12439_102 Webster St
- 12834_1400 Story Ave
- 1293102
- 13474_1709 Nightingale Rd
 - Measurements
 - Call Log
 - Flow 1
 - Max
 - Avg
 - Min
 - Level 1
 - Max
 - Avg
 - Min
 - Local Battery
 - Sigma Battery
 - Telog Local Battery
 - Velocity 1
 - Saved Reports
 - Alerts
 - Documents
- 13710_1621 Lytle Street
- 15928_1944 Richmond Dr
- 16139_2082 Douglas Dr

13474_1709 Nightingale Rd

13474_1709 Nightingale Rd (04/01/11 to 06/25/11)



	A	B	C
1	Time	Flow 1 (MGD)	Level 1 (in)
1250	04/14/11 00:00:00	3.709	8.901
1251	04/14/11 00:15:00	3.597	8.923
1252	04/14/11 00:30:00	3.384	8.857
1253	04/14/11 00:45:00	3.496	8.899

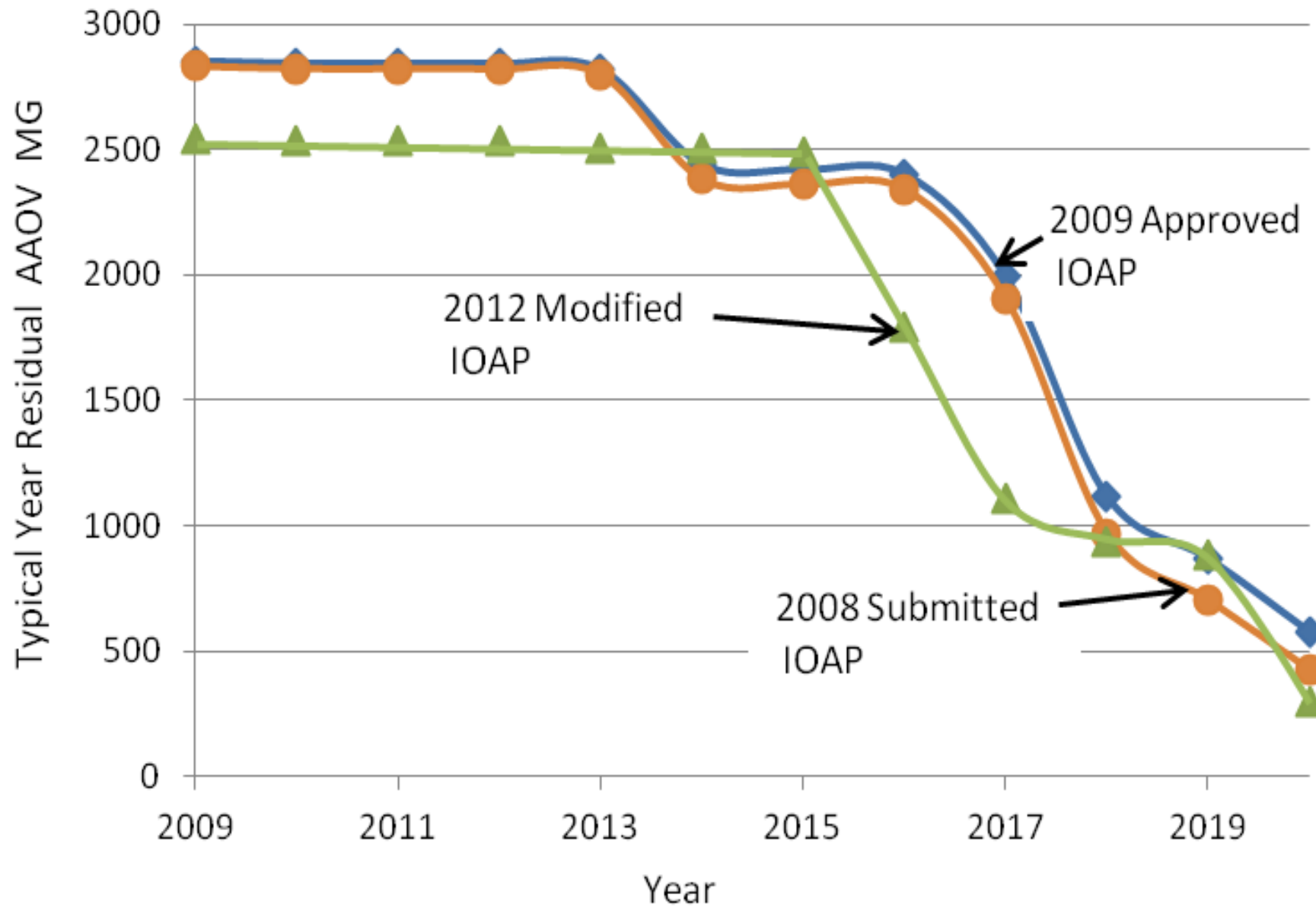
2012 Project Calibration

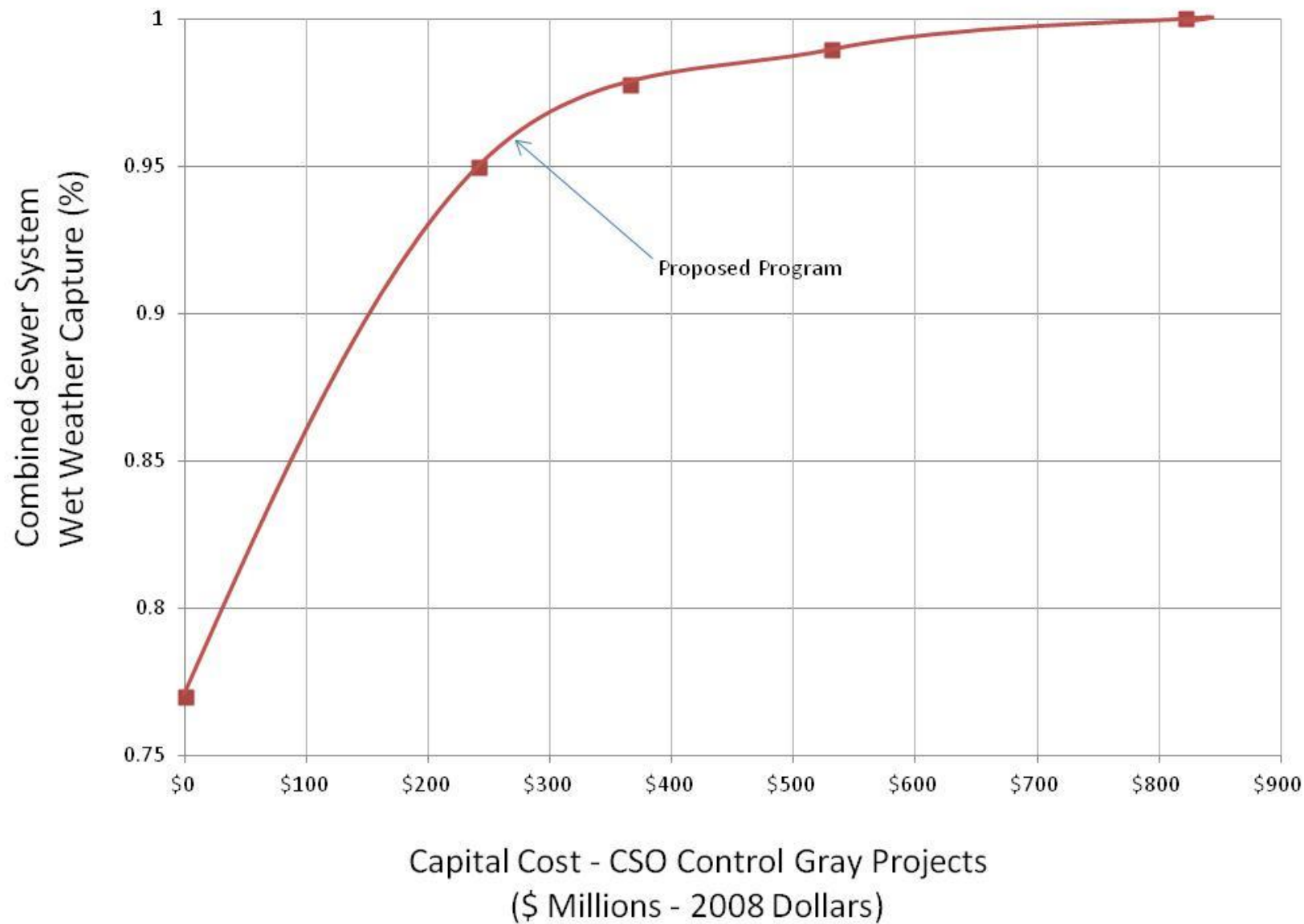
- Program Costs Remain at \$850 Million
- Several projects grew significantly in size and cost or are new
- Others shrank or were eliminated
- Overall program benefits increased
- Schedule revisions are being proposed

Project Revision Summary

- 7 projects got larger
- 3 projects have higher level of overflow control, 1 lower
- 7 projects got smaller
- 12 projects forward – some split from other projects
- 4 projects backward – green & size

CSO Annual Average Overflow Volume (AAOV) Reduction





Moving Forward

- Continue discussions with EPA regarding proposed project modifications
- Additional public input on red-line plan markups to occur in Fall 2012

Public Input Sought

Provide comments by September 14, 2012

- Tonight on the comment form
- Tonight on the video
- Via email at commentsIOAP@msdlouky.org
- Via mail:
MSD IOAP Project Comments
Attention: Project WIN Program Manager
700 West Liberty St.
Louisville, KY 40203

