

# Sewer Overflow Abatement Plan Public Input Meeting

## Meeting Topics

November 2012

Sewer Overflow  
Abatement Program  
Overview

Sewer Overflow  
Abatement Projects  
Overview



# Introductions

- Special guests
- MSD Directors
- MSD Community Relations Administrator
- MSD Customer Relations Staff
- MSD Project WIN & Engineering Staff

# SEWER OVERFLOWS



# Sewer Overflow Abatement Mandate

- **2005** – Mandate from Federal EPA and Kentucky to abate overflows
- **2008** – MSD submitted \$850 million plan to satisfy the mandate
- **2009** - Federal EPA and Kentucky approve the plan

# Presentation Objectives

- Three most frequently asked questions
- Sewer Overflow Abatement Plan Overview
- Progress report
- Proposed Plan Modifications
- How you can help keep sewer rates lower
- Public input request

# Frequent Question #1

- Why are you doing \$850M worth of sewer work? Is it really necessary?
- Why are you charging customers more money while we are in a recession?

## Unfunded Federal Mandate

Control combined sewer overflows by 2020

Eliminate sanitary sewer overflows by 2024

# Frequent Question #2

- Why is this the first we've heard about this large work effort?

MSD held 22 public meetings  
in 2007/2008 prior to  
submitting the plan to  
regulators for approval

Please Complete the Customer Survey



# Frequent Question #3

Will my input matter?

**Must Adhere to Federal Mandate**

**Depending on project status,  
public input can impact**

- Final project location
- Site design to minimize neighborhood impact
- Project appearance



# Sewer Overflow Abatement Plan



# Combined Sewer Overflows

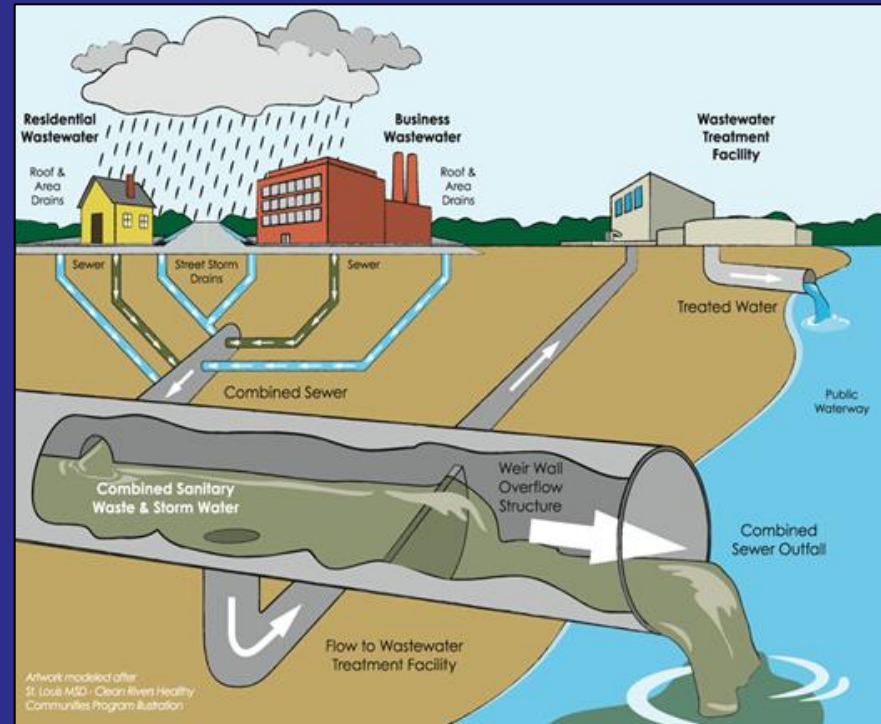


CSO

# Combined Sewer Overflow

## Challenges

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



# Sanitary Sewer Overflows



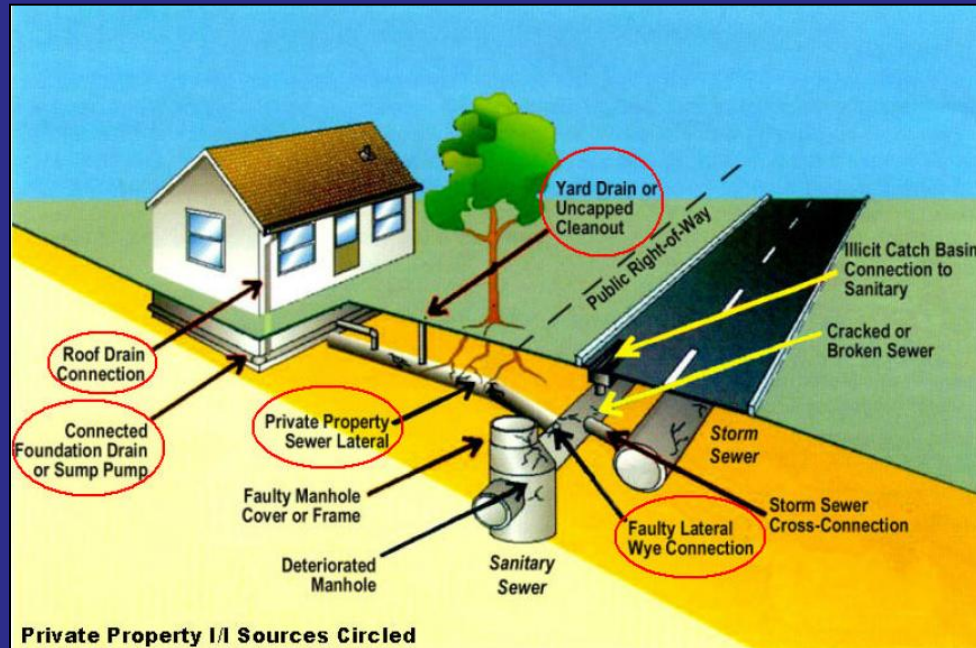
**SSOs**



# Sanitary Sewer Overflows

## Challenges

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

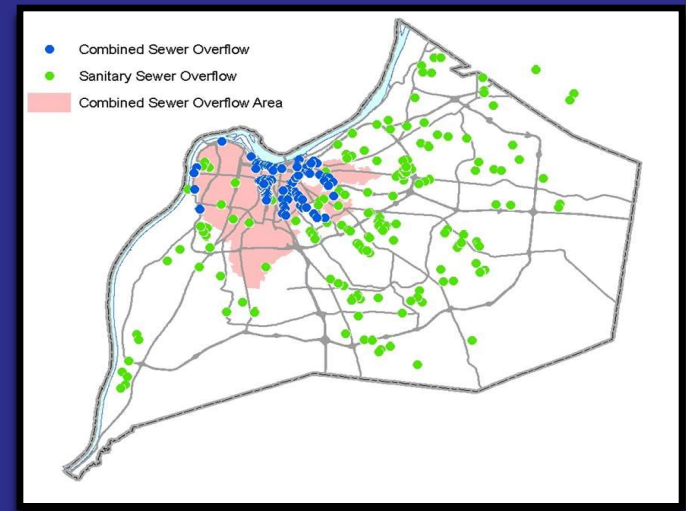


# 2005 Federal Consent Decree

## Amended in 2009

### On CSOs

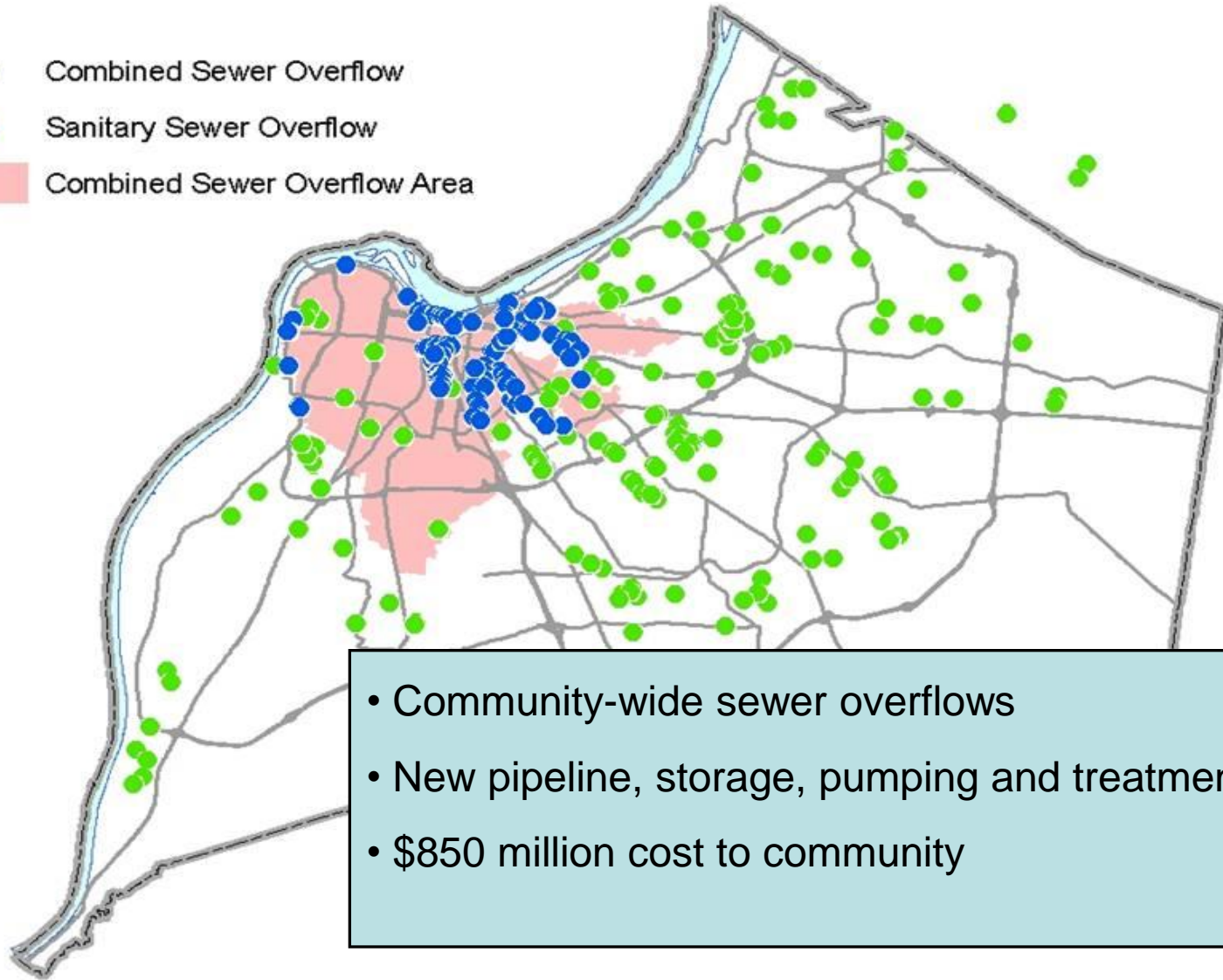
- ▶ CSOs allowed in wet weather; must not cause or contribute to stream water quality impairment
- ▶ CSOs in dry weather prohibited
- ▶ Complete program by 2020



### On SSOs

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

- Combined Sewer Overflow
- Sanitary Sewer Overflow
- Combined Sewer Overflow Area



- Community-wide sewer overflows
- New pipeline, storage, pumping and treatment
- \$850 million cost to community

# CSO Projects

## Approved 2009 Plan

- **Gray Infrastructure Projects**
  - Sewer separations & modifications
  - Storage basins
  - Replacement and expansion of Nightingale Pump Station
  - 1 High-Rate Wet Weather Treatment Facility
- **Source Control Program**
  - Green infrastructure projects for stormwater reductions
  - Flood pump station modifications for dry weather overflows



# SSO Projects

## Approved 2009 Plan

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



**Smoke testing on public sewer indicates improper downspout connection**

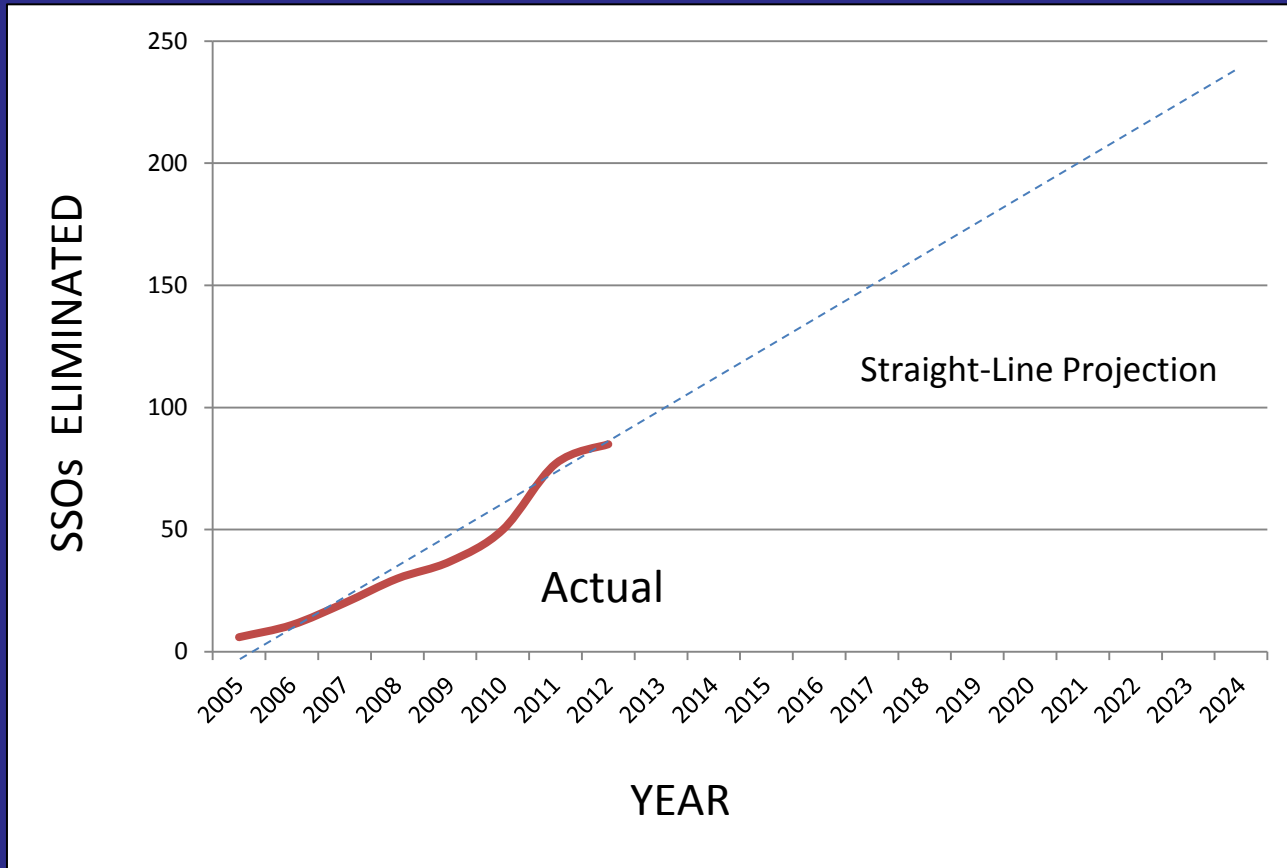


# Implementation Progress

## 2007 - 2012

- **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

# Implementation Progress First Five Years



# Proposed Modifications



**Measure Twice, Cut Once**

# Proposed Modifications

## Approved 2009 Plan Provided for Adjustments

- Improve system monitoring and modeling
- Review project approaches & sizing
- Right-size projects to ensure overflow plan objectives met

# Proposed Modification

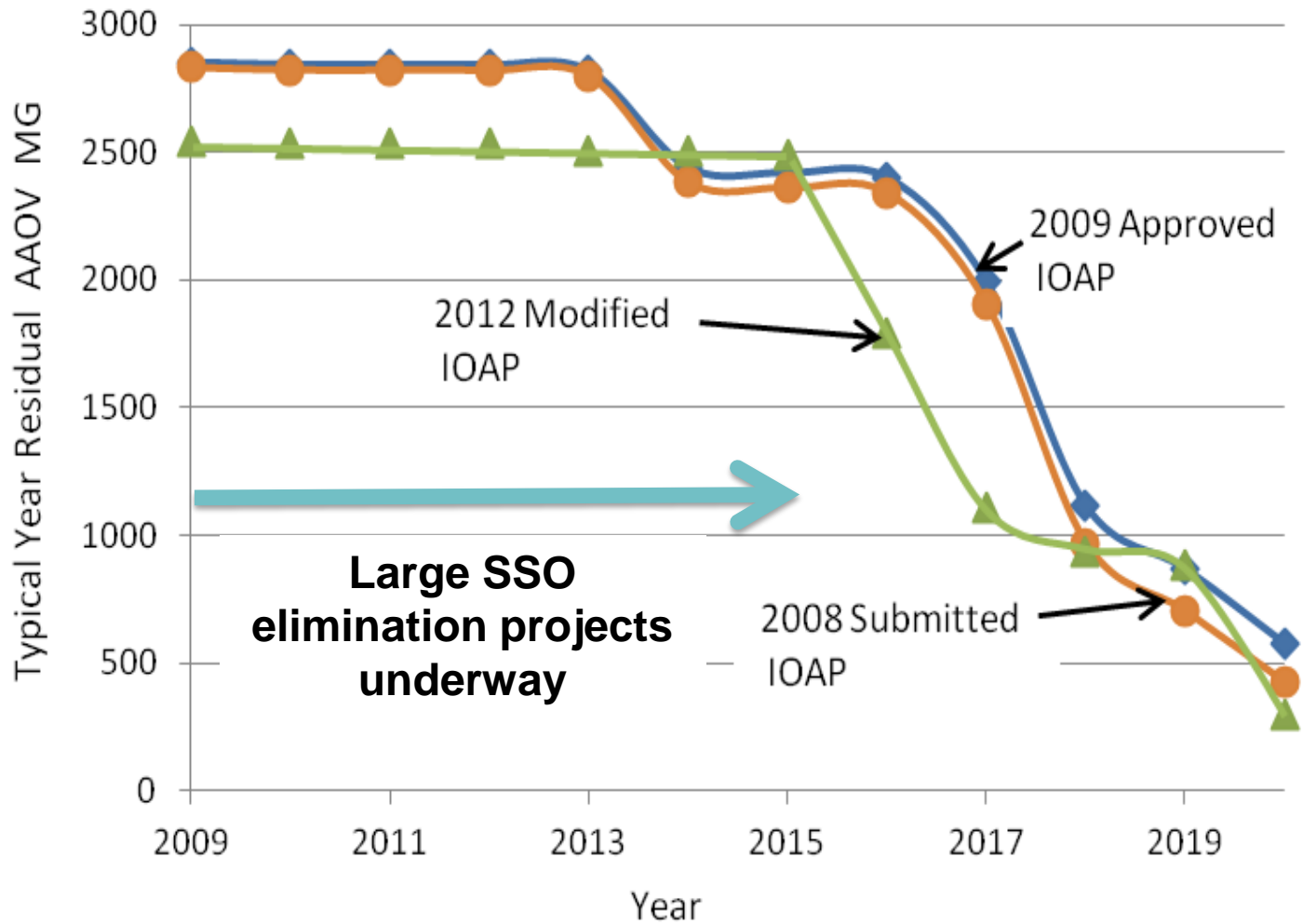
- Program Costs Remain at \$850 Million
- Some projects grew significantly in size and cost, or are new projects
- Some projects shrank, or were eliminated
- Overall program benefits increased
- Project schedule revisions necessary

# Project Modifications Summary

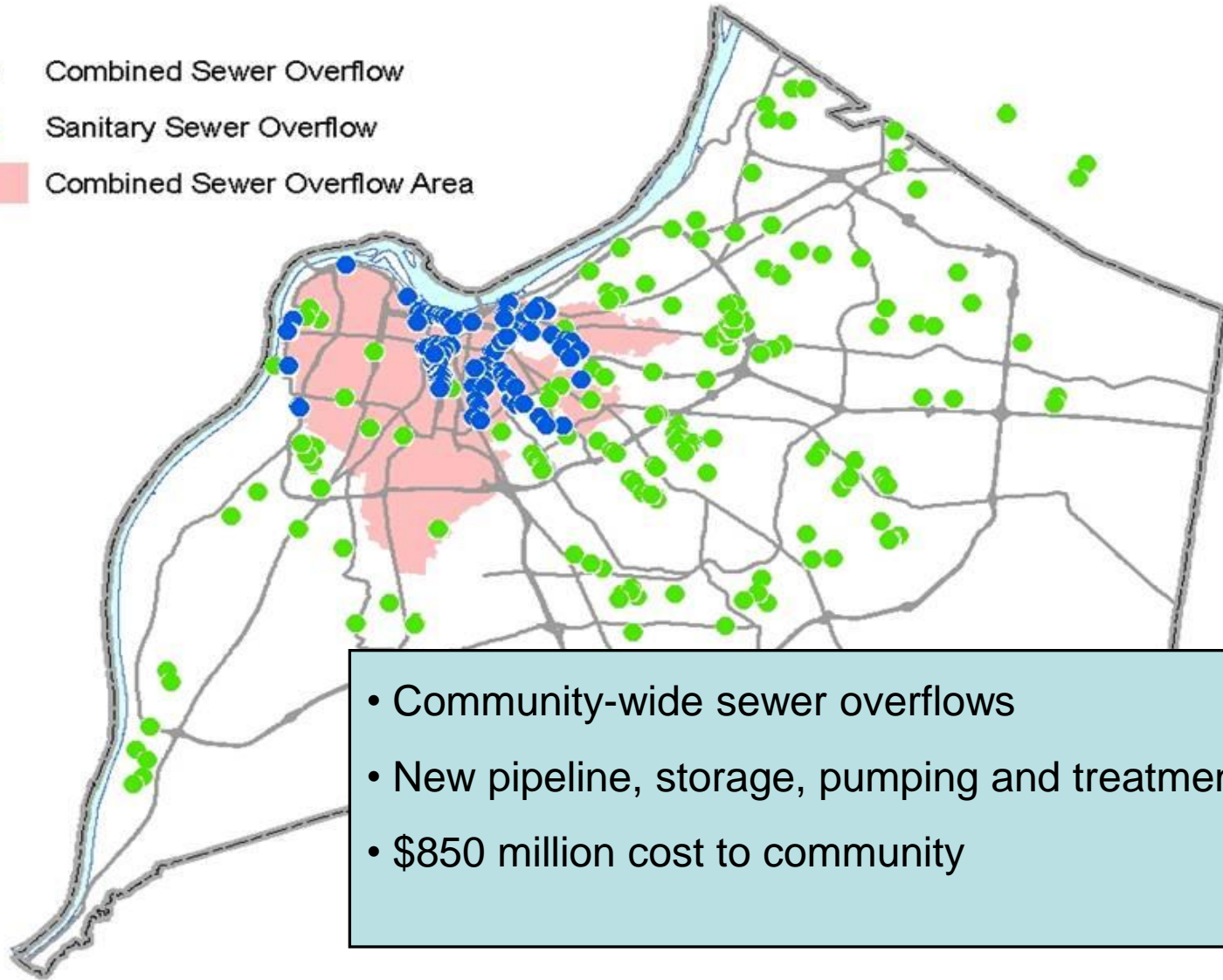
- 7 projects got larger
- 7 projects got smaller
- 3 projects have higher level of overflow control, 1 project has lower control level
- 12 projects move forward in schedule – some split from other projects
- 4 projects move back in schedule for “green” & size increases



## CSO Annual Average Overflow Volume (AAOV) Reduction



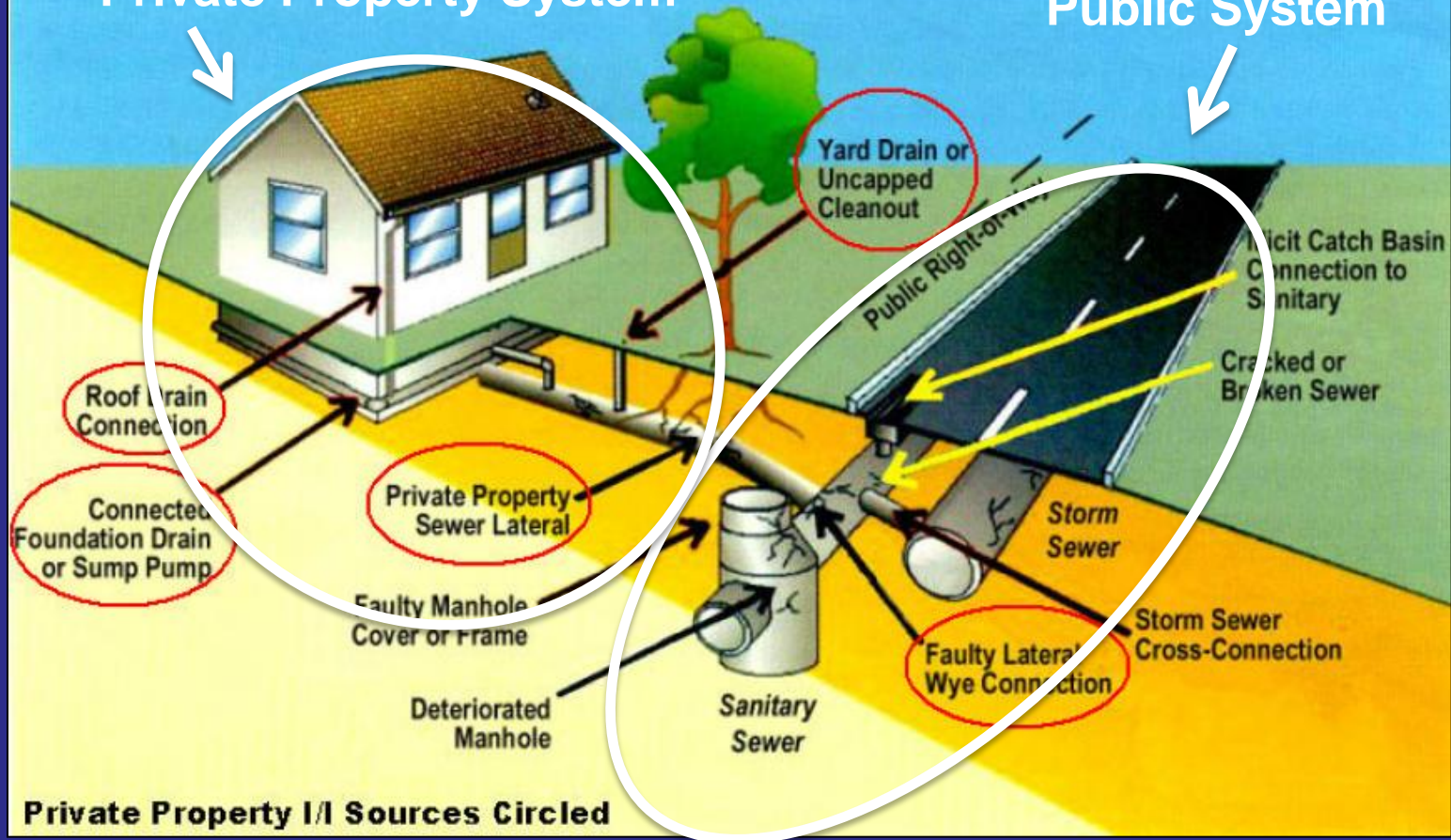
- Combined Sewer Overflow
- Sanitary Sewer Overflow
- Combined Sewer Overflow Area



- Community-wide sewer overflows
- New pipeline, storage, pumping and treatment
- \$850 million cost to community

# Private Property System

# Public System



Private Property I/I Sources Circled

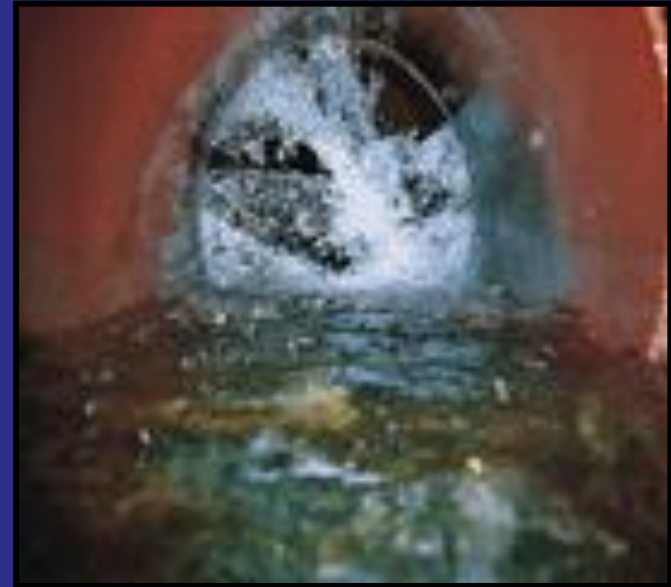
# What You Can Do To Help Keep Sewer Rates Lower!!

Fix private sewer laterals

- Notified by MSD
- Basement backups caused by roots
- Notified by Plumber

**Sanitary Sewer Line  
Replacement Program**

**587-0603**



# What You Can Do To Help Keep Sewer Rates Lower!!

- 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 Keep Sewer Rates Lower!!

Disconnect sump pumps  
from the sewer system

- Single biggest source of private-side unauthorized connections
- Should outlet to the ground or stormwater system

**Plumbing Modification  
Program 587-0603**



# What You Can Do To Help Keep Sewer Rates Lower!!

Delay using  
dishwashers and  
washing machines  
until after rain  
events have  
passed

**Sewers are FULL!**



# What You Can Do To Help Keep Sewer Rates Lower!!

Put dental floss, hair,  
and rags in the trash  
**NOT down the toilet!**



**accumulates at pumps and  
causes sewer overflows**



# What You Can Do To Help Keep Sewer Rates Lower!!

Put fats, oils & greases  
in the trash

**NOT down the drain!!!!**

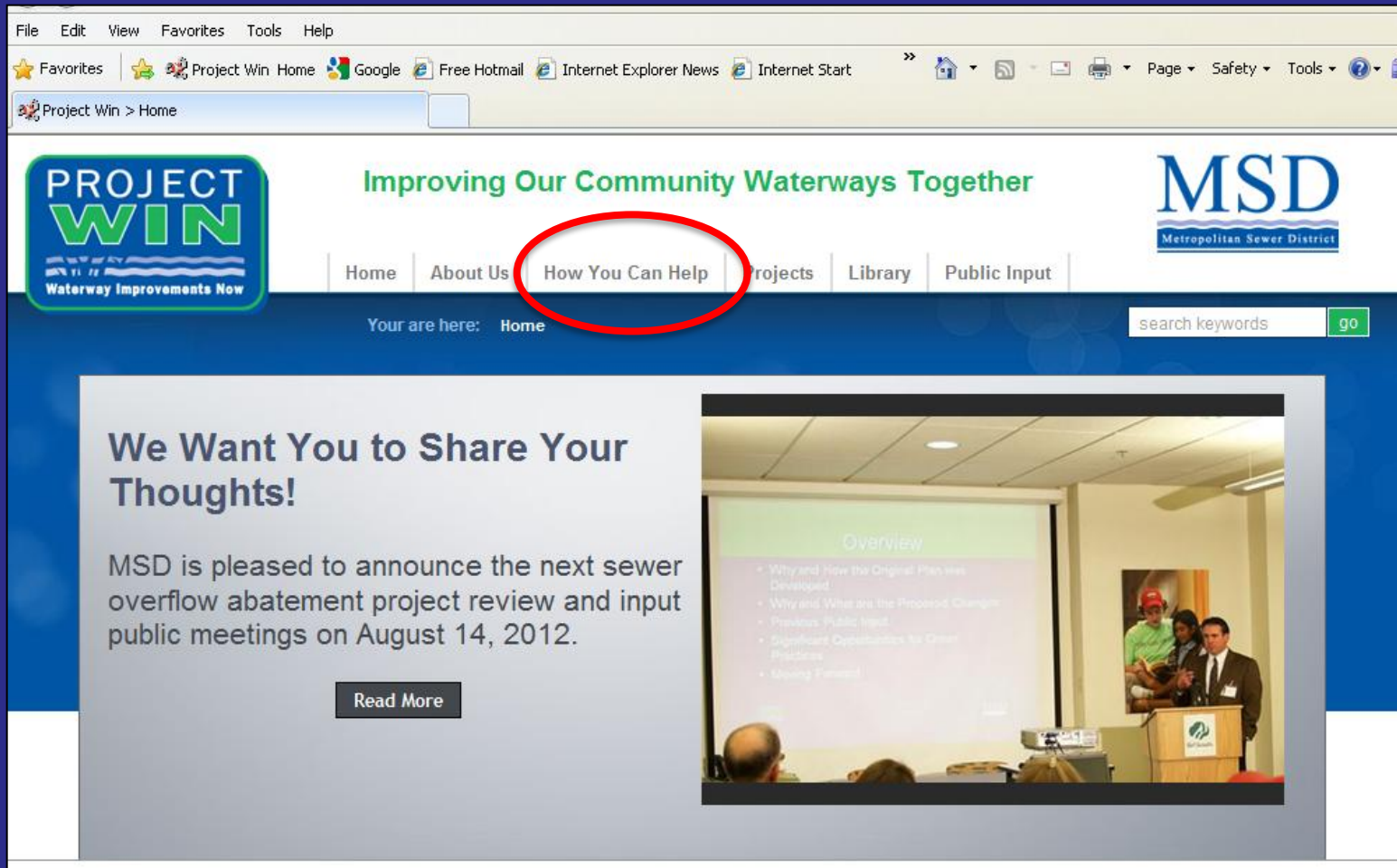


**Grease accumulates in pipes**



**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 address bar shows "Project Win > Home". The website header features 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 includes links for Home, About Us, How You Can Help (circled in red), Projects, Library, and Public Input. Below the navigation menu, there is a search bar with the text "search keywords" and a "go" button. The main content area has a blue background with a white box containing the following text:

## We Want You to Share Your Thoughts!

MSD is pleased to announce the next sewer overflow abatement project review and input public meetings on August 14, 2012.

[Read More](#)



# Project WIN Website - msdprojectwin.org

The screenshot displays the Project WIN website interface with several key sections:

- Public Notices:** Includes "Current Weather" (H 81°, L 57°) and "Jeffersontown Blending" with "NO" and "YES" buttons. Below it is the "Overflow Advisory Level" with three colored indicators (green, yellow, red).
- Upcoming Events:** Lists events such as "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", and "5/17/2012 - IOAP Public Input Meeting at the Harrods Creek Fire Department". A "More Events" link is also present.
- Links:** Lists resources like "BROCHURES", "FACT SHEETS", "FAQ", "INTERACTIVE MAP", "JUST FOR KIDS", "QUARTERLY REPORT", "PRESS & NEWS", "CHECK LOCAL RAINFALL", and "CSO/SSO LOCATIONS".
- Contact Us:** Provides "PHONE (502) 587-0603" and "EMAIL ProjectWINInfo@LouisvilleMSD.org".
- Sign Up for Alerts & Notifications:** A prominent blue button with yellow text, circled in red.
- Library:** A blue button with yellow text.
- Just for Kids:** A blue button featuring a cartoon character and the text "JUST FOR KIDS".
- YouTube:** A blue button with the YouTube logo and the text "View us on YouTube. click here".

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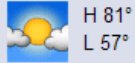
Home About Us How You Can Help Projects Library Public Input Contact Us

# Project WIN Website - msdprojectwin.org

defined in the Integrated Overflow Abatement Plan (IOAP) . [read more](#)

## Public Notices

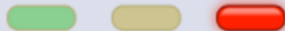
Current Weather



H 81°  
L 57°

Jeffersontown Blending 

Overflow Advisory Level 



## Upcoming Events

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

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[More Events](#)

## Links

[BROCHURES](#)

[FACT SHEETS](#)

[FAQ](#)

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## Contact Us



**PHONE**  
(502) 587-0603



**EMAIL**  
[ProjectWINInfo@LouisvilleMSD.org](mailto:ProjectWINInfo@LouisvilleMSD.org)

**SIGN UP** FOR  
ALERTS & NOTIFICATIONS

**Library**



**JUST FOR KIDS**

**You Tube**

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

# Project WIN Website - msdprojectwin.org

The screenshot displays a web-based file explorer interface. On the left, a sidebar shows a tree view of folders. The folder 'IOAP Public Input Meeting Materials' is highlighted with a red circle. The central pane shows a table of files with columns for 'Filename' and 'Size'. The right pane displays a 'null' status, a document icon, and a 'Click here to download' link.

Filename	Size
2007	
2008	
2009	
2010	
2011	
2012	

# Moving Forward

- Continue discussions with EPA regarding proposed project modifications
- Additional public input meetings in January 2013
- Red-line markups of IOAP available at Public Libraries in February 2013

# We Want to Hear from You

Drainage/sewer concerns at your property

- Stormwater drainage concerns on your property or nearby property
- Wastewater/sewer concerns on your property or nearby property

**Please see Customer Relations/IF&P staff**



# We Want to Hear from You

General MSD Concerns

**Please see MSD's Community Relations  
Administrator and MSD Directors**





# Public Input Sought

## Sewer Overflow Abatement Program/Projects

**Provide comments by November 29, 2012**

- Tonight on the comment form
- Tonight on the video
- Via email at [commentsIOAP@msdlouky.org](mailto:commentsIOAP@msdlouky.org)
- Via mail:

**MSD IOAP Project Comments**

**Attention: Project WIN Program Manager**

**700 West Liberty St.**

**Louisville, KY 40203**

