

Lancaster City Council
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Ohio EPA CSO Regulatory Update

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Today's Talk

- Background
 - What's a CSO?
 - OH and Federal Regulatory Program for CSO's
 - Ohio CSO Communities
 - Costs
- What's Being Asked of Lancaster?
 - Projects
 - Benefits of LTCP
 - Benefits to Compliance With NPDES

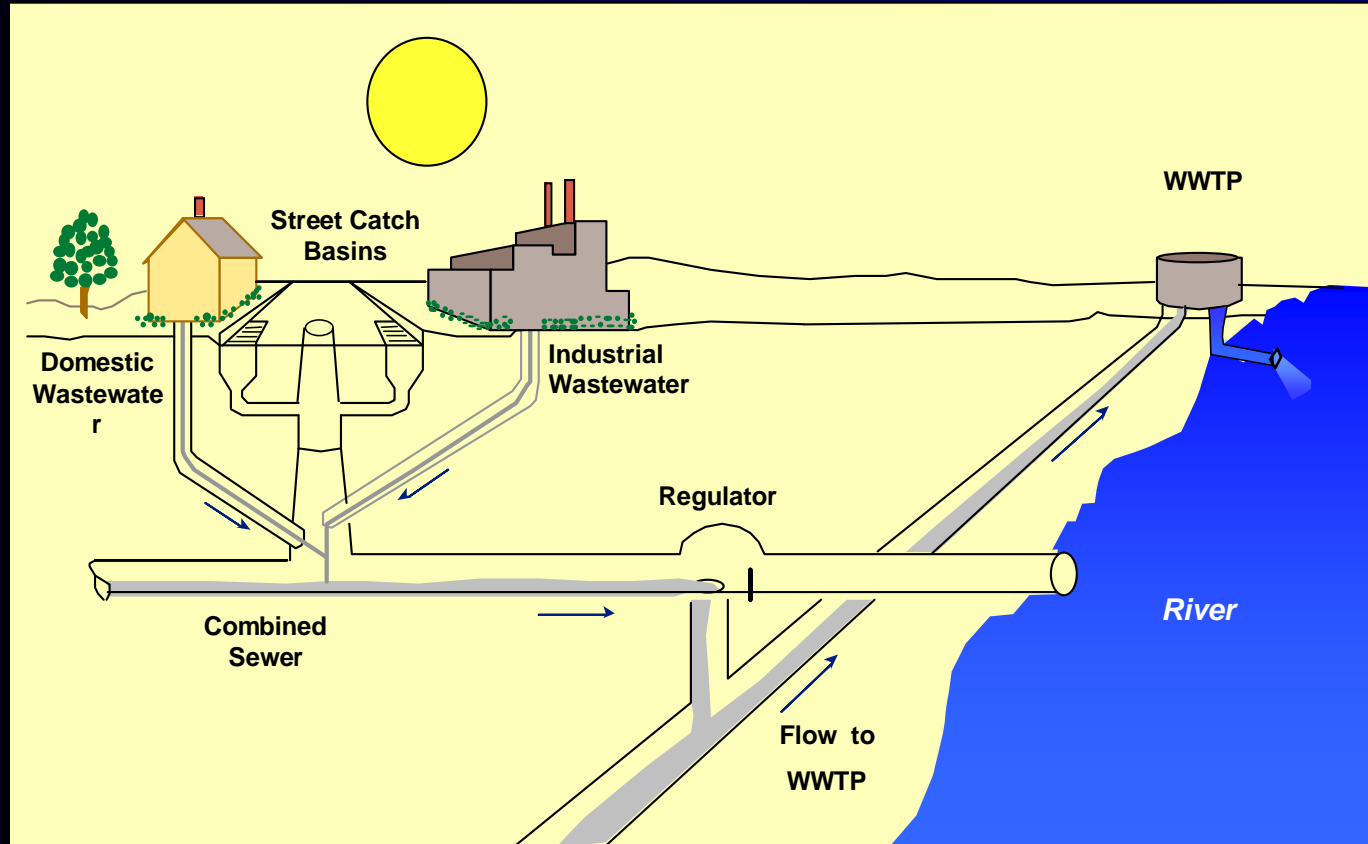
What Is A Combined Sewer?

A Combined Sewer System is a wastewater collection system which conveys sanitary wastewater and storm water through a single pipe system to a treatment plant

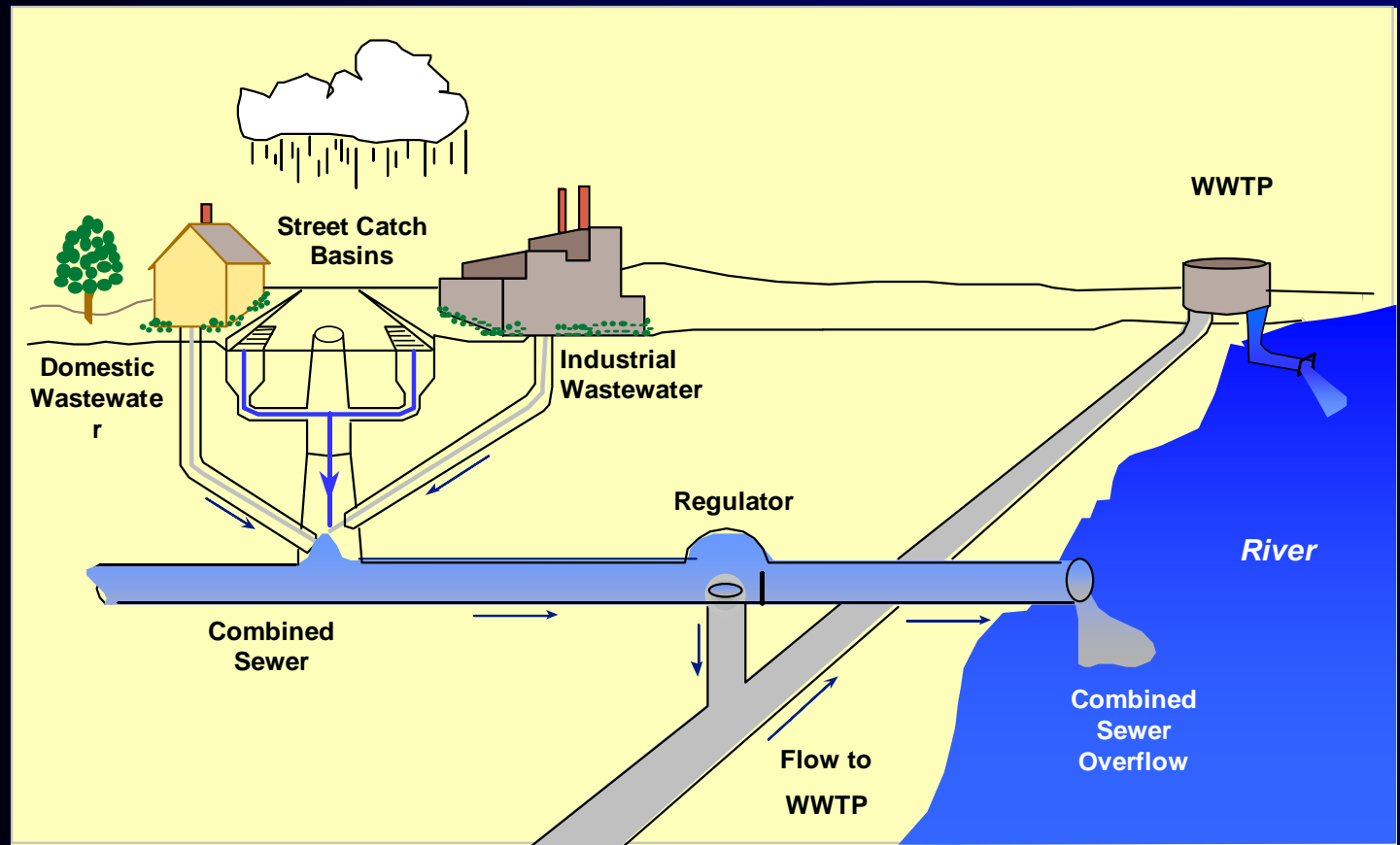
During a storm event, the combined sewer is overloaded with water and some of the combined sewage and storm water is discharged to stream prior to receiving treatment

Combined Sewage is a mixture storm water runoff and whatever is in the sanitary sewer: waste from industries, commercial establishments, medical facilities and individual

Combined Sewer System During Dry Weather



Combined Sewer System During Wet Weather



Regulatory Approach - CSOs

- Federal CWA Requires CSO Discharges Be Controlled
- Addressing CSOs are a National Priority of USEPA
- USEPA and Ohio EPA Coordinate & Prioritize CSO Actions



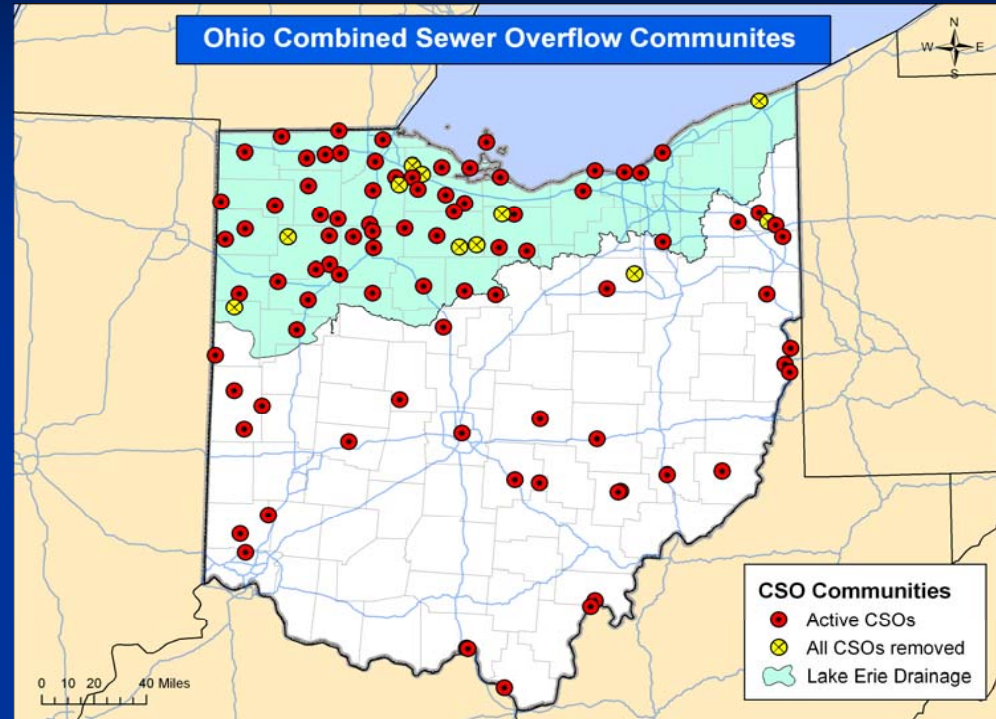
Regulatory Approach - CSOs

- NPDES Permits Required
LTCPs
 - Study of Sewer System –
Recommend Improvements
- LTCPs – Approved and
Implemented Through NPDES
Permit or ...
- Judicial Action if No Agreement
 - Federal or State



Background on Ohio LTCP Reviews...

- 98 CSO COMMUNITIES
- 69 APPROVED LTCPs
 - Mostly Small & Medium Size
- 35 COMMUNITIES WILL HAVE ALL LTCP CONTROLS INSTALLED by 2017
- 29 UNAPPROVED LTCPs
 - Large or MidSize Communities
 - Joint State/Federal Enforcement



Costs ...

- \$3.1 Billion for CSOs in Lake Erie Basin
- \$3.2 Billion for CSOs in Ohio River Basin
- Twenty to Thirty Dollars per Month for CSOs Ave. Sewer Bill – not uncommon
- Total Sewer Bill Over \$50/month – not uncommon



Sewer Rates

Large CSO Cities

- Columbus
 - 2006 - \$415/yr
 - Ongoing Double Digit Rate Increases - \$58/mo (includes storm water fee) by 2011
- Cincinnati MSD
 - 2006 - \$511/yr
 - Ongoing Double Digit Rate Increases
- Cleveland – NEORSD
 - 2006 - \$350/yr
 - Double Digit Rate Increases to $>$ \$55/mo by 2016
- Youngstown
 - 2006 - \$652/yr

Sewer Rates - Mid Size CSO Cities

Lancaster – 2006 - \$465/yr

- Defiance – NW OH
 - 2006 - \$466/yr
 - Ongoing Double Digit Rate Increases
- Napoleon
 - 2006 - \$548/yr
 - Ongoing Double Digit Rate Increases
- Perrysburg
 - 2005 - \$671/yr
- Newark
 - 2006 - \$324??/yr
- Van Wert
 - 2006 - \$599/yr

Sewer Rates – Small Size CSO Communities

- Port Clinton – USEPA
 - 2006 - \$1071/yr
 - Ongoing Double Digit Rate Increases
- Oak Harbor
 - 2006 - \$771/yr
- Bremen
 - 2006 - \$559/yr
- Newton Falls
 - 2006 - \$752/yr

Lancaster LTCP

2007 NPDES Includes Projects From LTCP

Project Name/Year Completed/Benefit:

- Lake Allen Sewer Separation – 2009
 - Basement Flooding & CSO
- Upper Hocking WWTP – 2011 - \$ 48M
 - New Growth & CSO
- Baldwin Run & Broad St Sewer Projects
 - CSO & New Growth
- EQ Basin at Existing WWTP – 2017
 - CSO
- Remaining Overflows < 4times/yr - 2025
 - CSO

Lancaster LTCP ...

2007 NPDES Includes Approved Projects

- Reduces Volume CSO from 120 MG/yr to Less Than 20 MG/yr – Assures Compliance Federal/State Law & Benefits Public Health

- Accomplished Over 20 Year Schedule
 - Project Schedules Adjusted to Reduce Rate Impacts
 - Sewer Rates In-Line With Other CSO Communities

- Projects Accommodate:
 - New Growth
 - Old Infrastructure That Needs Rehabilitation
 - CSOs

Why Comply With NPDES ...

- Protects Environment & Public Health and Complies With Law
- Permit Allows Flexibility to Address Future Projects (Permit vs. Court Order)
- Avoids Federal or State Court Action for Non-Compliance
- Avoids Significant Penalties & Legal Costs to Defend Litigation

Why Comply With NPDES ...

- **Avoids Delays & Uncertainty in OEPA Permits for New Development**
 - Without improvements the flow from new development overflows from CSOs
- **Avoids Redo of Engineering Costs Already Expended – Millions \$??**