

Combined Sewer Overflow - Long Term Control Plan Update

DELCORA

Public Participation Meeting No. 1

LTCP Scope and Purpose

March 15, 2016

Chester City Hall Community Room

1 E. 4th Street, Chester, PA

Public Participation Plan Goals

- DELCORA's goals and objectives for the Public Participation Program are to :
 - ◆ Inform and solicit input to its updated LTCP from stakeholders, including the public, customer communities and the regulatory agencies
 - ◆ Educate the public
 - ◆ Address public concerns

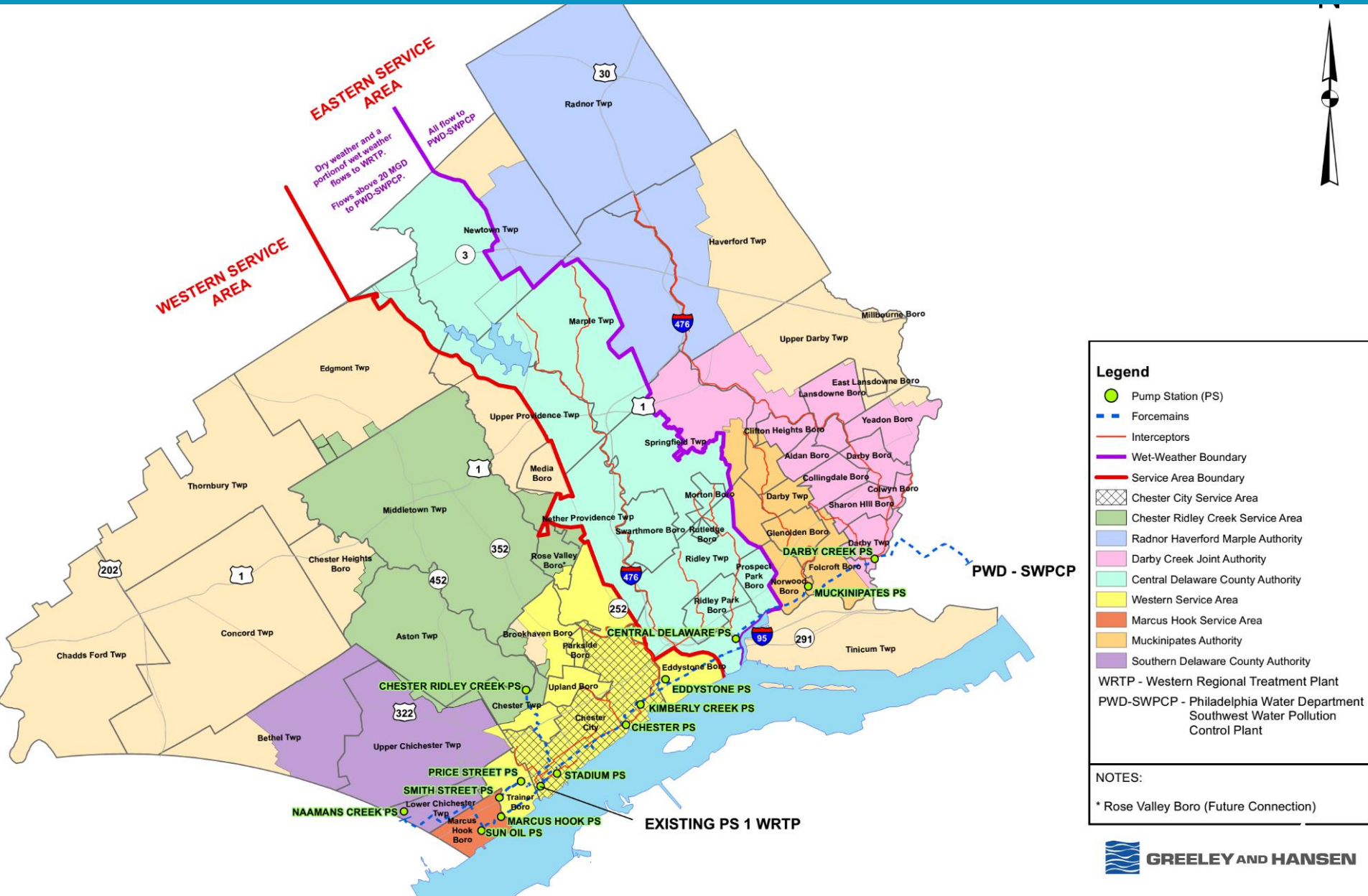
General Information

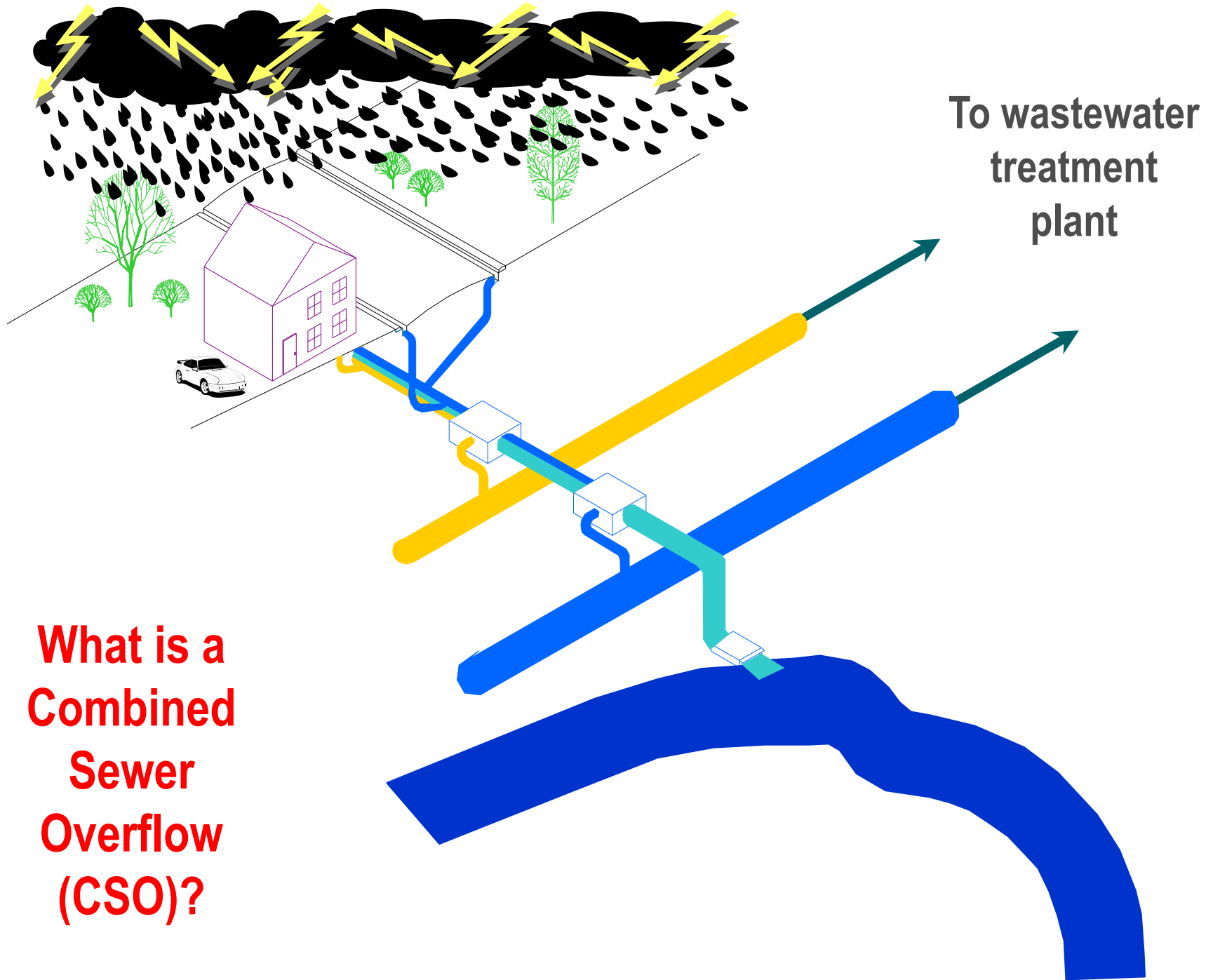
- DELCORA is the Delaware County Regional Water Quality Authority, established in 1971, responsible for collecting, conveying and treating wastewater in the greater Philadelphia Area including 42 Municipalities in Delaware and Chester County.

DELCORA Mission

“Provide environmentally responsible and cost effective wastewater management services to the citizens, businesses, and industries of Southeastern Pennsylvania”

DELCORA Service Area





Definitions

- **LTCP:** The Long Term Control Plan is the document that lays out how DELCORA will maintain the outfalls and reduce the flow and/or treat the discharge from the outfalls to the water ways to meet the requirements of the Clean Water Act.
- **Sanitary Sewer:** The system that contains only waste from bathrooms, sinks, washers etc.
- **Storm Sewer:** Run off from streets.
- **Combined Sewer System:** Pipe that has both sanitary sewage and storm water in it.
- **Combined Sewer Overflow:** An overflow is the relief point in the combined sewer system that allows the extra flow when it rains to be discharged directly to streams and rivers.
- **EPA:** United States Environmental Protection Agency
- **DEP:** Pennsylvania Department of Environmental Protection

History of Combined Sewer System

- In the early 1900's the City of Chester's Combined Sewer System was constructed.
 - ◆ This was, at the time, a typical engineering practice in Urban areas.
- In 1971 DELCORA became the owner of the existing Sanitary and Combined Sewer System in the City of Chester.
- Discharges from CSOs are authorized through the National Pollutants Discharge Elimination System (NPDES) permit during Wet Weather Flow.

DELCORA Combined Sewer Area



History of EPA LTCPs

- LTCP Consent Decrees/Order for various wastewater systems not only throughout Pennsylvania, but the entire country.
 - ◆ Washington DC, New York City, Richmond,
- Current Pennsylvania communities already impacted by LTCP Consent Decree Costs & Fines:
 - ◆ Williamsport
 - ◆ Scranton
 - ◆ Harrisburg
 - ◆ Pittsburgh



Philadelphia LTCP

- DELCORA is currently contributing to the Philadelphia LTCP.
 - ◆ Philadelphia's LTCP has an overall price tag of over \$2 Billion over 25 years.
 - ◆ DELCORA's proportionate share of the Philadelphia LTCP is \$178 million over 15 years due to the term of our contract with Philadelphia.



DELCORA LTCP Background

- In 1999 in response to increased environmental regulations, DELCORA implemented an LTCP for the DELCORA Combined Sewer System in the City of Chester.
- The LTCP identified capital improvements and operation and maintenance practices to reduce overflows.
- From 1999-2009 DELCORA spent in excess of \$5 million on improvements and contributions to the City of Chester that resulted in decreased volume of overflows, reduced debris in overflows, provided remote monitoring of the system, and improved routine maintenance.
- In 2009, the DEP and EPA determined that DELCORA's LTCP was no longer in compliance with increased regulations of the Clean Water Act. In response, DELCORA began working with DEP and EPA to update the LTCP.

LTCP Background (Continued)

- In 2012, DELCORA submitted a revised LTCP to DEP and EPA.
- A key element in DELCORA's revised plan position was that the CSOs are only found in the City of Chester and the financial burden on the City of Chester residents must be considered.
- In 2014, DEP and EPA determined that DELCORA's revised LTCP required further evaluation and development so the Department of Justice was assigned to pursue a Consent Decree.

DELCORA Consent Decree

- The Consent Decree was agreed to by DELCORA on July 1, 2015 and signed into effect by the Dept. of Justice (DOJ) in November 2015. The Consent Decree is a legally binding agreement between DELCORA, EPA, and DEP in which DELCORA agrees to update the current LTCP.
- Generally, the Consent Decree consists of:
 - ◆ Compliance Measures
 - ◆ Milestones for plan update and implementation
 - ◆ Civil penalty
 - ◆ Stipulated penalties for non-compliance
- DELCORA has been given 42 months (3½ years) to develop a plan and 20 total years to implement the plan. When projects are complete and on-line, sewer fee charges will include costs for the updated LTCP.

LTCPU Summary – Where We Are

- Hired expert consultants with a good track record as well as experience specifically related to the LTCP.
 - ◆ Greeley & Hansen: Engineering Consultant for the LTCP
 - ◆ Municipal & Financial Services Group: Rate Model Consultant
 - ◆ Blank Rome: Law Firm
- 100% compliance to date with Consent Decree
 - ◆ Submitted to date :
 - Public Participation Plan
 - Hydrologic and Hydraulic Model Update and Calibration Plan
 - Typical Hydrologic Period Plan
 - Semi-Annual Report
 - Sensitive Areas and Pollutants of Concern Report
 - ◆ To be Submitted by May 17, 2016
 - Draft FCA and Alternative Evaluation Report



Financial Capability Assessment (FCA)

- The Consent Decree requires DELCORA to submit a DRAFT FCA by May 17, 2016 and FINAL FCA at the end of the project.
- Financial Capability Assessment's (FCA's) purpose is to determine the affordability of the LTCP.
- Develop fair, equitable, and legal cost share for conveyance, storage, and treatment of wet weather flows

Financial Capability Assessment (FCA)

Financial Capability Matrix

| Permittee Financial Capability Indicators Score (Socioeconomic, Debt & Financial Indicators) | Residential Indicator (Cost Per Household as a % of MHI) | | |
|---|---|--------------------------------------|---------------------------|
| | Low (1.0% and Below) | Mid-Range (Between 1.0% and 2.0%) | High (2.0% and Above) |
| Weak (1.5 and Below) | Medium Burden | High Burden | High Burden |
| Mid-Range (Between 1.5 and 2.5) | Low Burden | Medium Burden | High Burden |
| Strong (2.5 and Above) | Low Burden | Low Burden | Medium Burden |

LTCPU Summary – Next Phase

- Sampling
- Flow Monitoring and Precipitation Monitoring Installation
- Data Analysis
- Model Development
- System Characterization
- Development and Evaluation of Alternatives for CSO Controls
- Selection and Implementation of the Long-Term Plan
- Continued Public and Stakeholder Involvement



Future Public Meetings

■ 2nd Meeting

Topic: System Characterization

When: 3rd Quarter 2017

Where: Ridley Township Municipal Building
100 MacDade Boulevard; Folsom, PA 19033

■ 3rd Meeting

Topic: Development and Evaluation of Alternatives for CSO
Controls

When: 4th Quarter 2017

Where: Chester City Hall
1 E. 4th Street; Chester, PA 19103



Public Meetings (Continued)

■ 4th Meeting

Topic: Selection and Implementation of the Long-Term Plan

When: 3rd Quarter 2018

Where: Aston Township Administration Building
5021 Pennell Road; Aston, PA 19014



Literature and Documentation

- Literature and documentation will be made available by DELCORA at the following public locations and on the DELCORA website:

- ◆ **DELCORA Administration Building**

100 East Fifth Street; Chester, PA 19013

- ◆ **Lewis Crozer Library**

620 Engle Street; Chester, PA 19013

- ◆ **Marcus Hook Municipal Building**

1015 Green Street; Marcus Hook, PA 19061

- ◆ **Ridley Township Building**

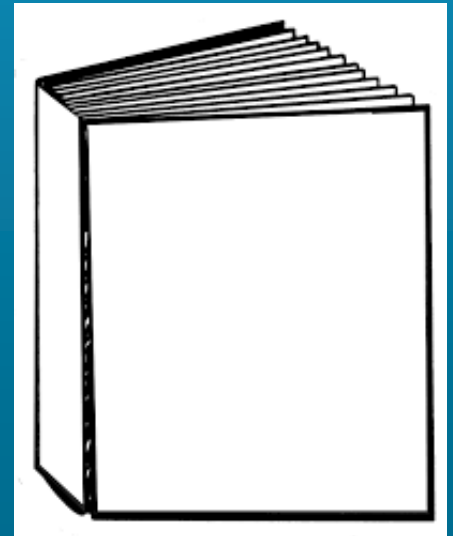
100 MacDade Blvd.; Folsom, PA 19033

- ◆ **Upland Borough Office**

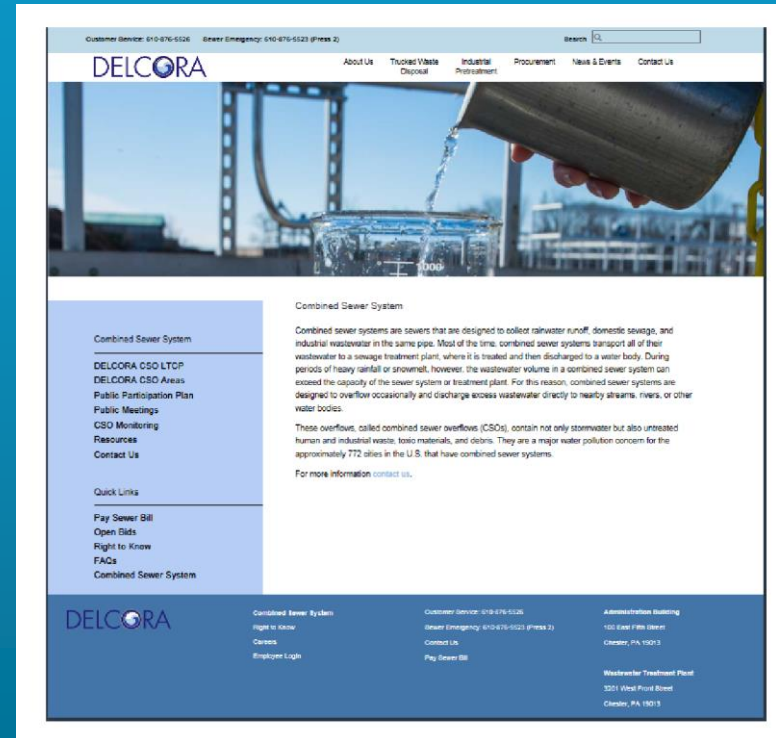
224 Castle Avenue; Brookhaven, PA 19015

- ◆ **Chester Township**

1150 Engle Street; Chester, PA 19013



DELCORA WEBSITE



www.delcora.org

CONTACT DELCORA

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- General Phone Number: 610-876-5523

- Newsletter

- Sign-Up Sheet



-Thank You-

Discussion - Q&A

