



**WATER
RESOURCE
MANAGEMENT**

Combined Sewer Overflow *Program Overview*

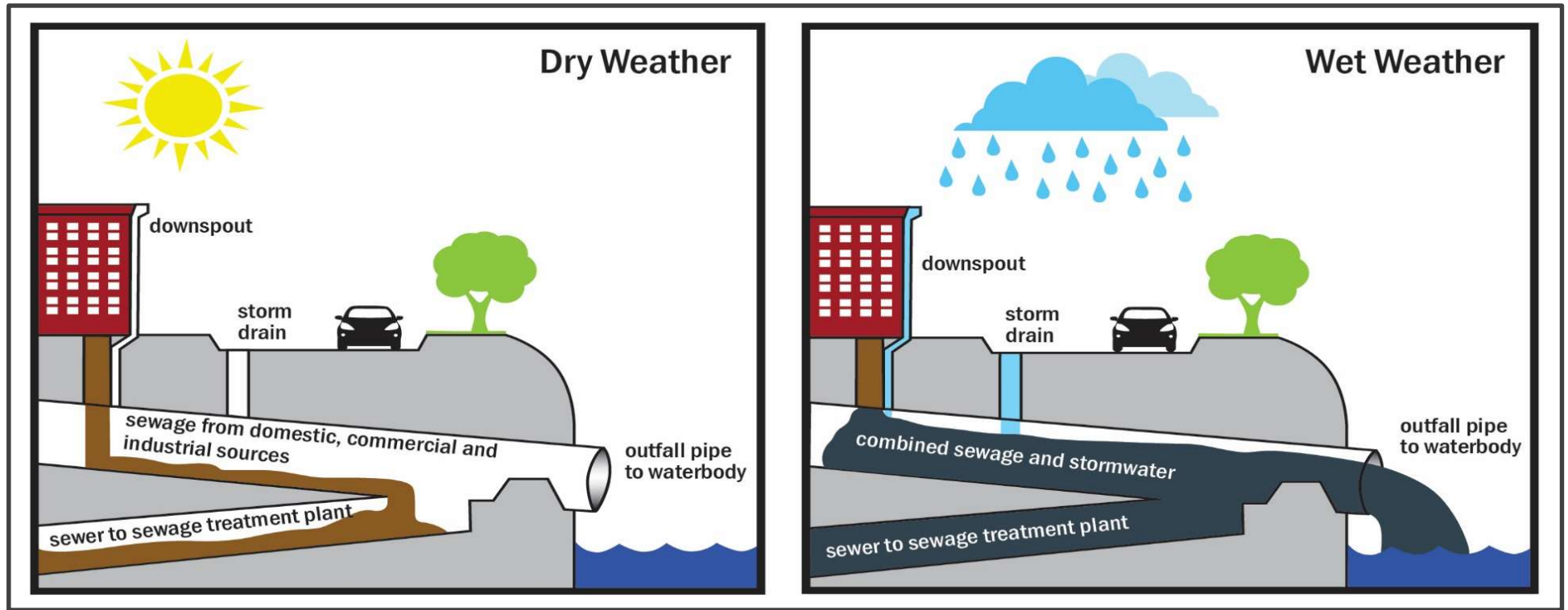
Susan Rosenwinkel, Assistant Director
Water Pollution Management Element

Division of Water Quality

July 11, 2023



Combined Sewer System Operation

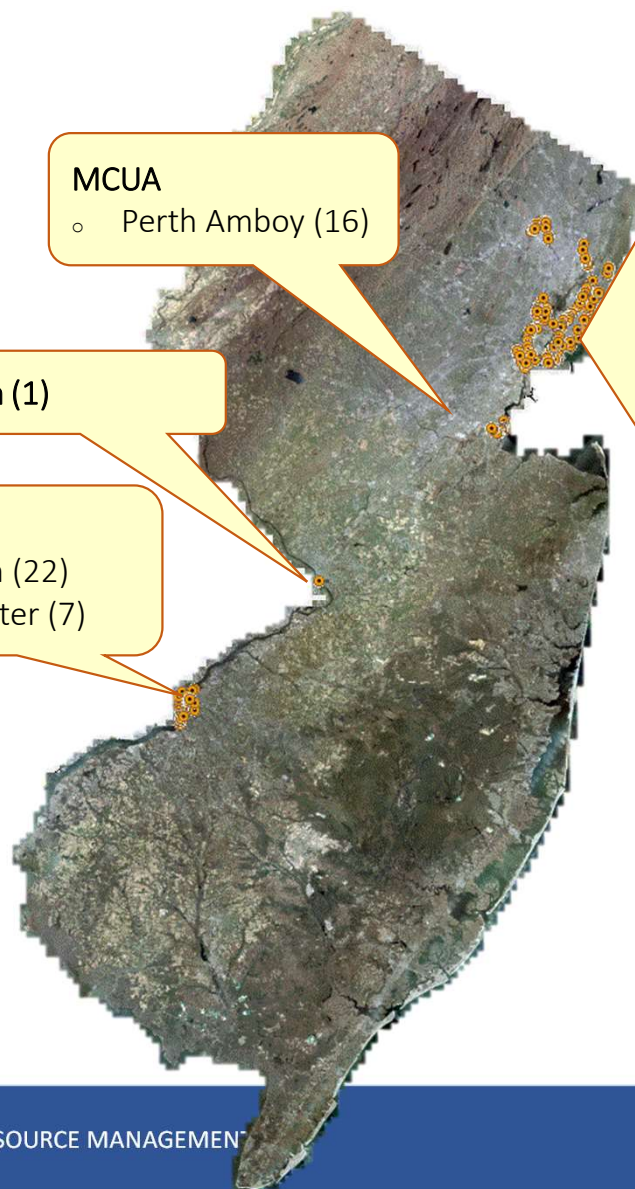


CSO Program Objective

- ✓ Reduce or eliminate CSO discharges through study, design, and implementation of the Long-Term Control Plan (LTCP)
- ✓ New Jersey Pollutant Discharge Elimination System (NJPDES) permits are not construction permits (construction requirements are established in other programs) but rather NJPDES permits focus on discharge quality.
- ✓ All NJ facilities have selected a **minimum of 85% wet weather capture** under the Presumption Approach (i.e., reducing CSO discharges through CSO control measures)

$$\text{Percent Capture} = \frac{(\text{Total System Wet Weather Inflow} - \text{Total CSO Volume})}{(\text{Total System Wet Weather Inflow})}$$

WHERE ARE NJ CSOs?



MCUA

- Perth Amboy (16)

Trenton (1)

CCMUA (1)

- Camden (22)
- Gloucester (7)

BCUA

- Fort Lee (2)
- Hackensack (2)
- Ridgefield Park (6)

Joint Meeting

- Elizabeth (29)

North Bergen (1)

- Guttenberg (1)

North Hudson AS (7)

North Hudson RR (2)

- Hoboken
- West New York
- Weehawken
- Union City

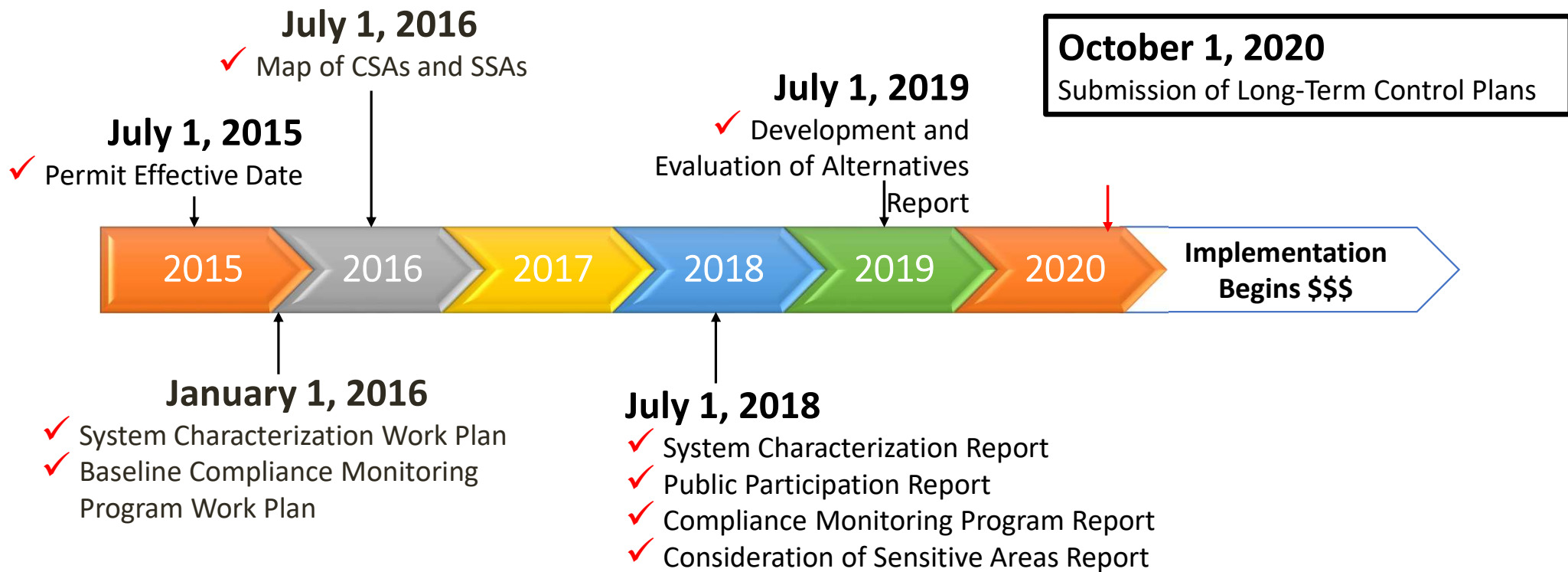
PVSC

- East Newark (1)
- Harrison (6)
- Bayonne (28)
- Kearny (5)
- Paterson (23)
- Jersey City (21)
- Newark (18)
- N Bergen MUA (9)



History: CSO Permit Submittals

End of a long race with a new marathon to run



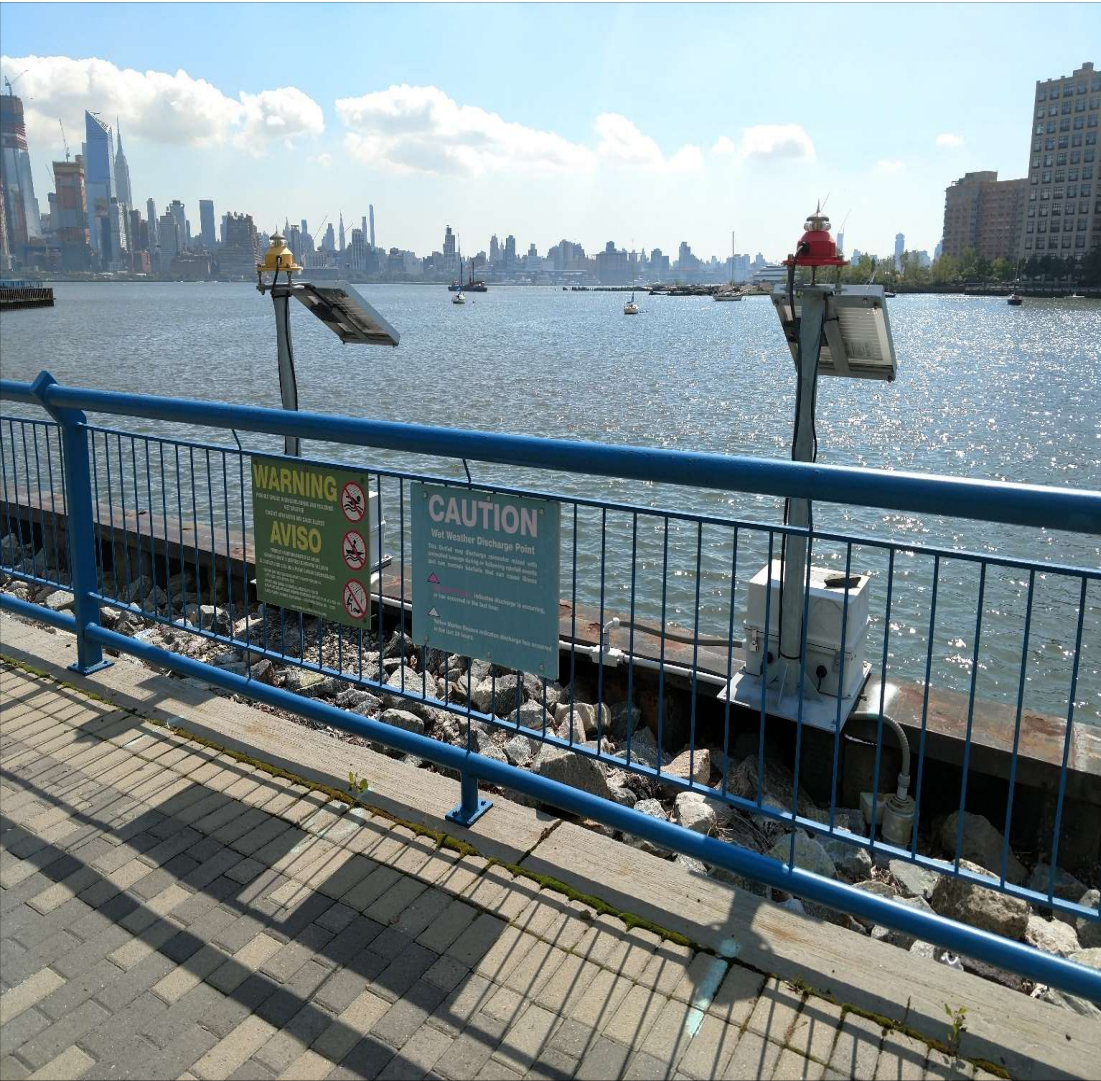


Types of Projects

7 CSO Control Strategies

- Sewage Treatment Plant Expansion
- Increased Storage Capacity in the Collection System
- Sewage Treatment Plant Bypass
- I/I Reduction
- Sewer Separation
- Treatment at the CSO Discharge
- Green Infrastructure





WHAT HAS HAPPENED SINCE THE LTCPS WERE SUBMITTED?

LTCPS reviewed and first round of comments sent and posted on our website.

Stakeholder process was implemented.

Draft permits are being issued.



Categories of Stakeholder Input

- Financing – overall cost, cost-sharing, timeframe, impacts to community
- Environmental justice / public engagement
- Green Infrastructure – timing and amount
- Climate change



Canco Park Conservancy
 The Embankment Preservation Coalition
 Powerhouse Arts District Neighborhood Association
 Riverview Neighborhood Association
 Sustainable Jersey City





Public Transparency Along the Way

NJDEP CSO Website: <https://www.nj.gov/dep/dwq/cso.htm>

All major LTCP submissions were posted on-line.

The screenshot shows the NJDEP CSO website interface. At the top, it features the Governor and Lt. Governor names, navigation links for NJ Home, Services A to Z, Departments/Agencies, and FAQs, and a search bar. The main header includes the State of New Jersey Department of Environmental Protection Division of Water Quality logo and a city skyline graphic. Below the header is a navigation menu with links for DWQ Home, CSO Topics, CSO Permits, NJDEP Home, and NJDEP Online. A left sidebar contains a list of links: CSO Home, CSO Basics, For Permittees, Community Collaboration, CSO Virtual Public Hearing, Stakeholder Engagement, FAQs, Training and Events, LTCP Submittals, Join Our Email List, and Contact Us. The main content area is titled 'Long Term Control Plan Submittals' and contains a sub-section 'NJDEP LTCP Technical Comment Letters'. This section lists several technical comment letters with their dates and file sizes, each accompanied by a red triangle icon.

Governor Phil Murphy • Lt. Governor Sheila Oliver
NJ Home | Services A to Z | Departments/Agencies | FAQs
Search All of NJ

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER QUALITY

DWQ Home CSO Topics CSO Permits NJDEP Home | NJDEP Online

Long Term Control Plan Submittals

NJDEP LTCP Technical Comment Letters

- ▶ [Camden County Municipal Utilities Authority, City of Camden, City of Gloucester Technical Comment Letter Dated 05/07/2021](#) - (684 kb)
- ▶ [Middlesex County Utilities Authority, City of Perth Amboy Technical Comment Letter Dated 05/07/2021](#) - (699 kb)
- ▶ [North Bergen Municipal Utilities Authority Woodcliff Sewage Treatment Plant, Guttenberg Town Technical Comment Letter Dated 05/10/2021](#) - (530 kb)
- ▶ [Bergen County Utilities Authority, Borough of Fort Lee, City of Hackensack, Village of Ridgefield Park Technical Comment Letter Dated 05/26/2021](#) - (612 kb)
- ▶ [North Hudson Sewerage Authority - River Road Wastewater Treatment Plant Technical Comment Letter Dated 06/03/2021](#) - (223 kb)
- ▶ [North Hudson Sewerage Authority - Adam Street Wastewater Treatment Plant Technical Comment Letter Dated 06/17/2021](#) - (338 kb)
- ▶ [Joint Meeting of Essex and Union Counties, City of Elizabeth Technical Comment Letter Dated 07/22/2021](#) - (264 kb)
- ▶ [Passaic Valley Sewerage Commission and 8 Other Permittees, Regional Technical Comment Letter Dated 06/11/2021](#) - (458 kb)



- CSO Home
- CSO Basics
- For Permittees ▶
- Community Collaboration
- CSO Virtual Public Hearing
- Stakeholder Engagement
- FAQs
- Training and Events
- LTCP Submittals
- Join Our Email List
- Contact Us

Combined Sewer Overflow (CSO) Permits 2022/2023

The 2015 Final NJPDES Combined Sewer Overflow permits required submission of Long Term Control Plans to address combined sewer outfall discharges. These LTCPs were submitted in 2020 and reviewed by DWQ. Draft CSO permits have been issued based on the information contained in the LTCPs, input from stakeholders and comments from the DWQ. Final CSO permits have begun being issued based on the draft permits and written and oral comments submitted. As these permits have been issued, they have been listed in the "News" section to the right. Note that any new final permits that have been issued do replace the 2015 permits and have been included in the "CSO Permits" tab above.

The goal of the CSO permits is to meet the requirements of the Clean Water Act and the National CSO Policy by reducing or eliminating the remaining CSO discharges in New Jersey. The Department is committed to working with Combined Sewer Overflow (CSO) permittees and CSO communities to reduce or eliminate CSOs by providing low-cost funding and guidance to meet permit obligations. In order to achieve the reduction or elimination of CSO discharges, CSO permittees will need to reduce flooding, ensure proper operation, maintenance and management

News

- ▶ [6/27/2023 - Draft CSO Public Engagement Guidance Document](#) **NEW!**
- ▶ [5/25/2023 - Issuance of the Final NJPDES CSO Permit for the Town of Guttenberg](#) **NEW!**
- ▶ [5/25/2023 - Issuance of the Final NJPDES CSO Permit for North Bergen Municipal Utilities Authority - Woodcliff STP](#) **NEW!**
- ▶ [05/09/2023-Public Hearing for the NJPDES CSO Permit for the Joint Meeting of Essex and Union Counties and City of Elizabeth scheduled for June 12, 2023](#) **NEW!**
- ▶ [05/09/2023-Issuance of the Draft NJPDES CSO Permit for the Joint Meeting of Essex and Union Counties](#) **NEW!**



List Of The Eight LTCPs

North Bergen MUA –
Woodcliff STP

North Hudson –
Adams Street

North Hudson – River
Road

Elizabeth and Joint
Meeting of Essex &
Union Counties

Bergen County
Utilities Authority,
Ridgefield Park, Fort
Lee, Hackensack

PVSC Regional
Alternative and
Municipal Alternative
(8 municipalities)

Perth Amboy and
Middlesex County
Utilities Authority

Camden County
Municipal Utilities
Authority, Camden,
Gloucester



North Bergen MUA Woodcliff STP

Upgrades & expansion nearly complete
Wet weather flow will increase from 8 MGD to 10 MGD
Cost - \$23M



NJPDES CSO Permit Roll Out

December 2022

Issuance of Draft
North Bergen
Woodcliff STP &
Guttenberg
Permits

March 2023

Issuance of
Draft
North Hudson
Adams St STP

March 2023

Issuance of
Draft
North Hudson
River Road STP

May 2023

Issuance of Draft
Joint Meeting of
Essex & Union
Counties and City
of Elizabeth

May 2023

Issuance of Final
North Bergen
Woodcliff STP
and Guttenberg
Permits

Coming Soon

Issuance of
Draft BCUA,
Fort Lee,
Hackensack,
Ridgefield Park



Joint Mtg Essex & Union Counties, City of Elizabeth





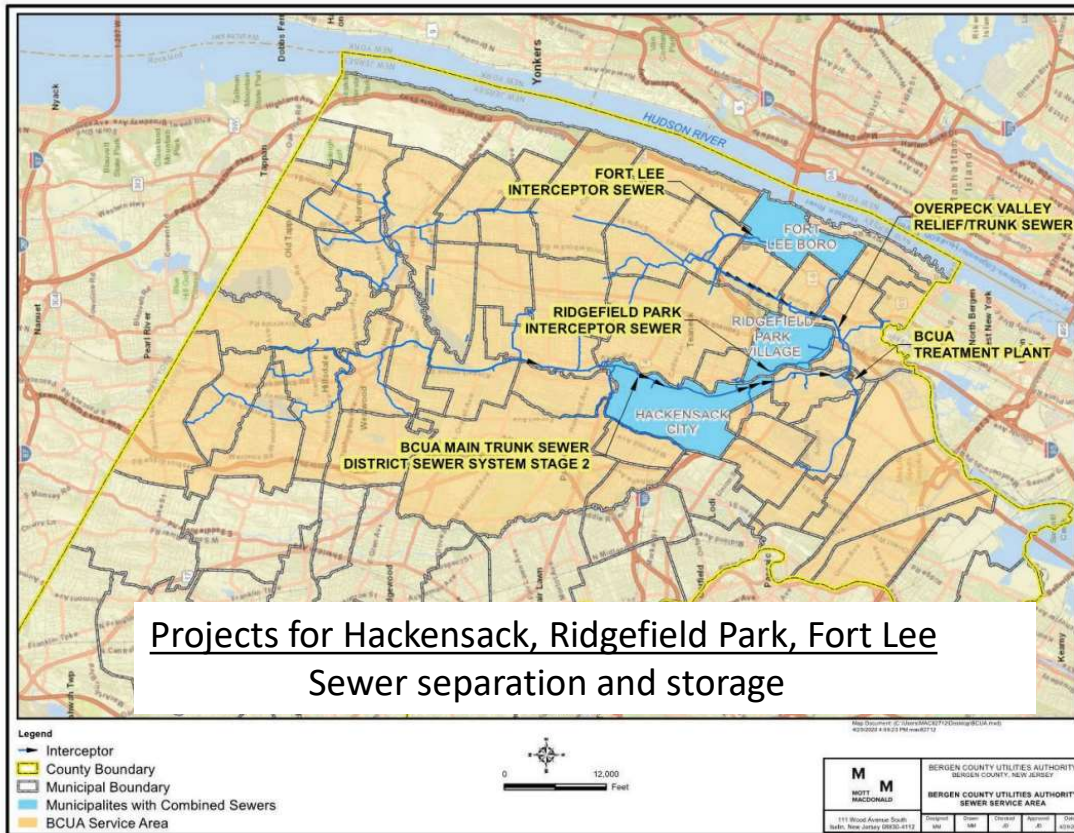
Middlesex County Utilities Authority (MCUA) *City of Perth Amboy*



- Projects
- Sewer separation
 - Green infrastructure
 - Force Main to MCUA
 - Satellite Storage
 - High rate Treatment



Hackensack, Ridgefield Park, Fort Lee, Bergen County Utilities Authority



Hackensack completed separation of Main Street Sewers in 2019

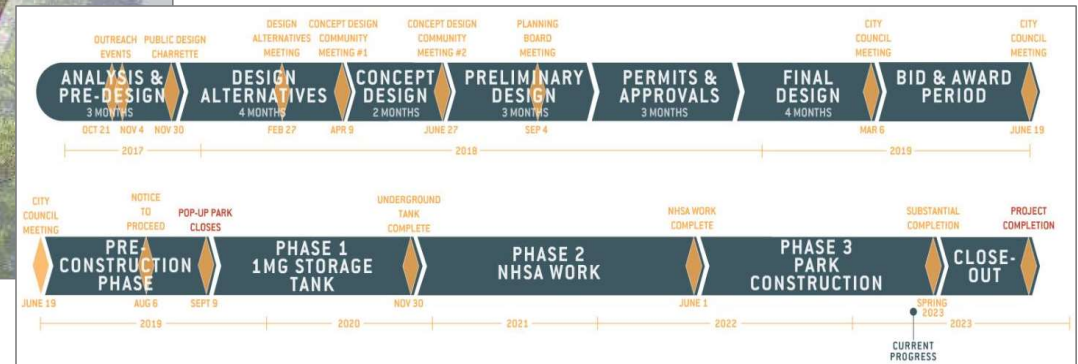


North Hudson Sewerage Authority - Hoboken



Northwest Resiliency Park & Construction Schedule

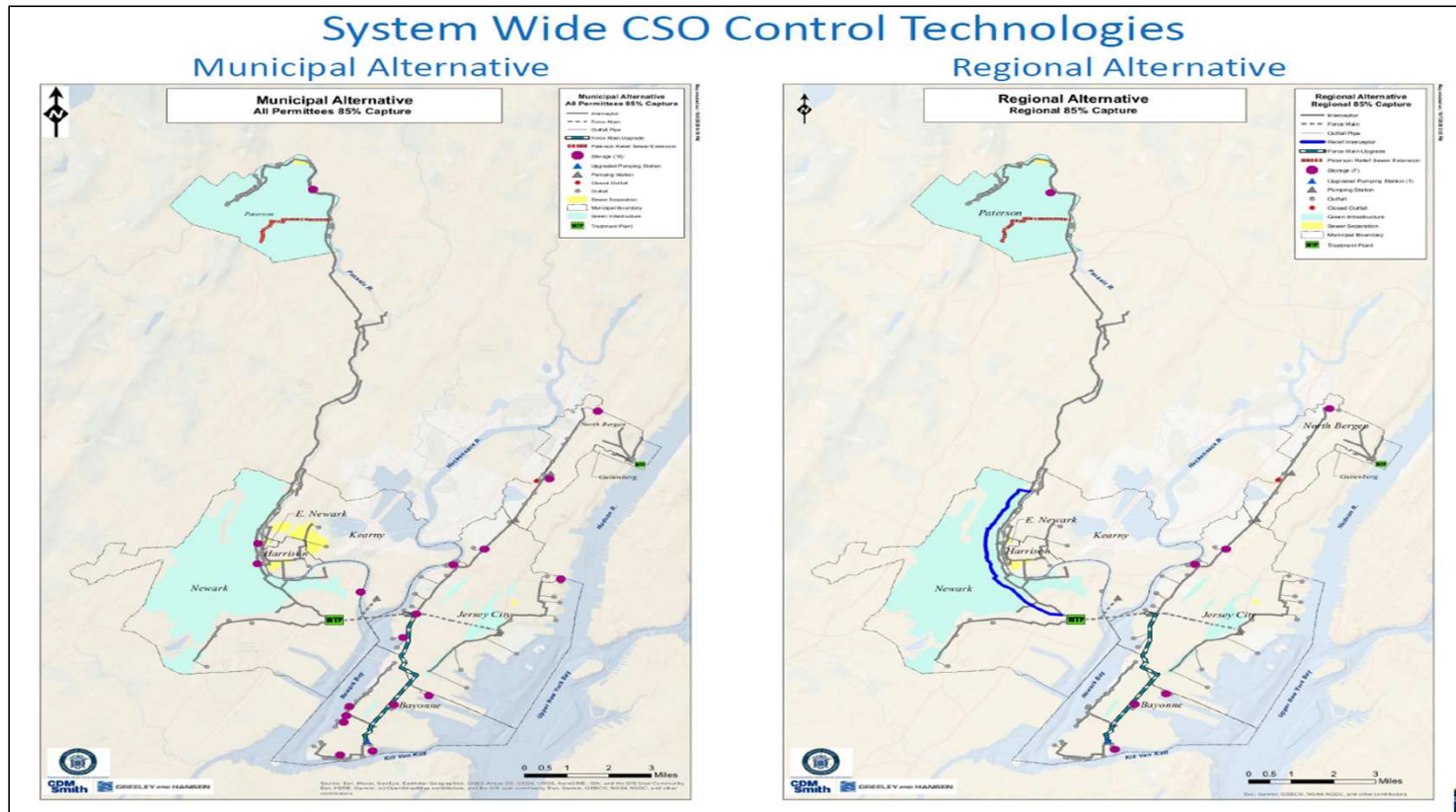
Public Engagement - Future City Environmental Day 2019





PVSC District – Municipal vs. Regional alternative

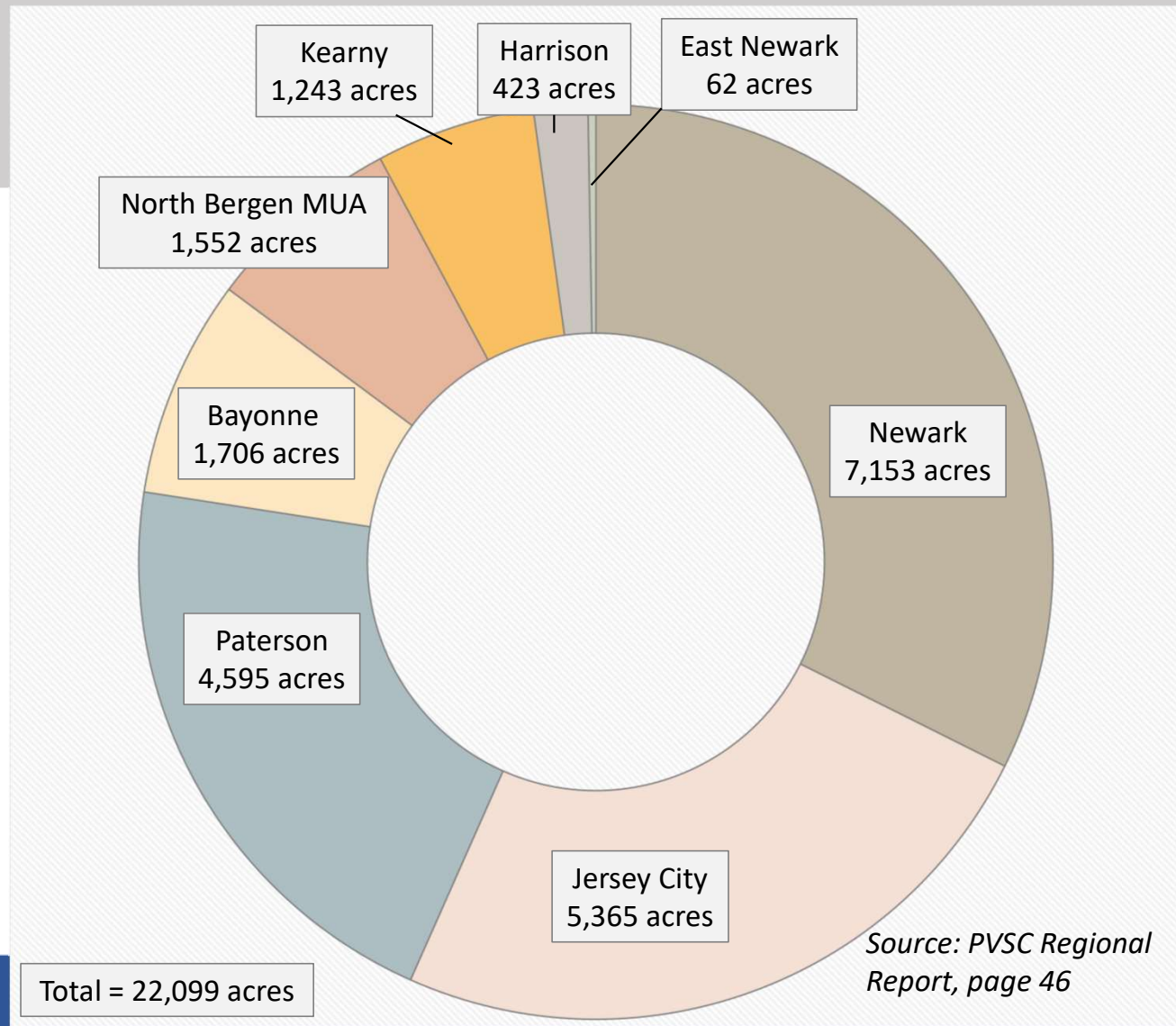
PVSC
Hydraulically
Connected
System





PVSC District

Combined Sewer Contributing Acres

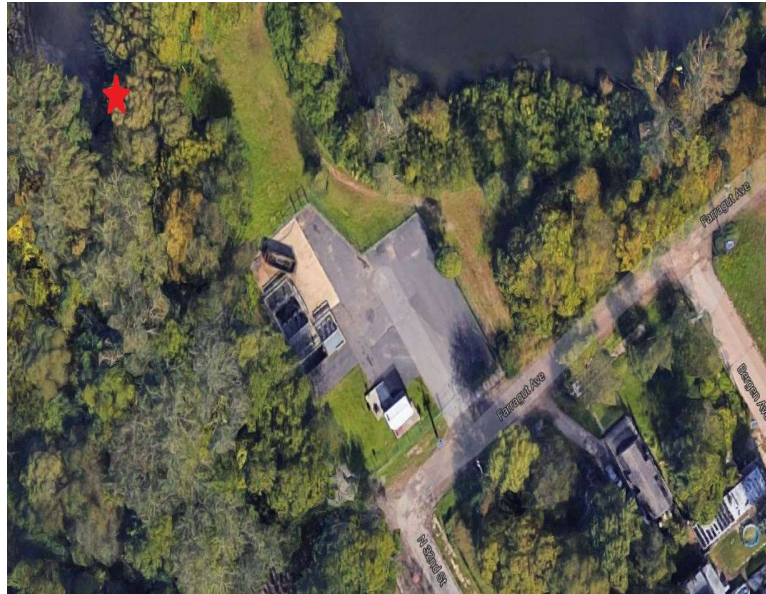




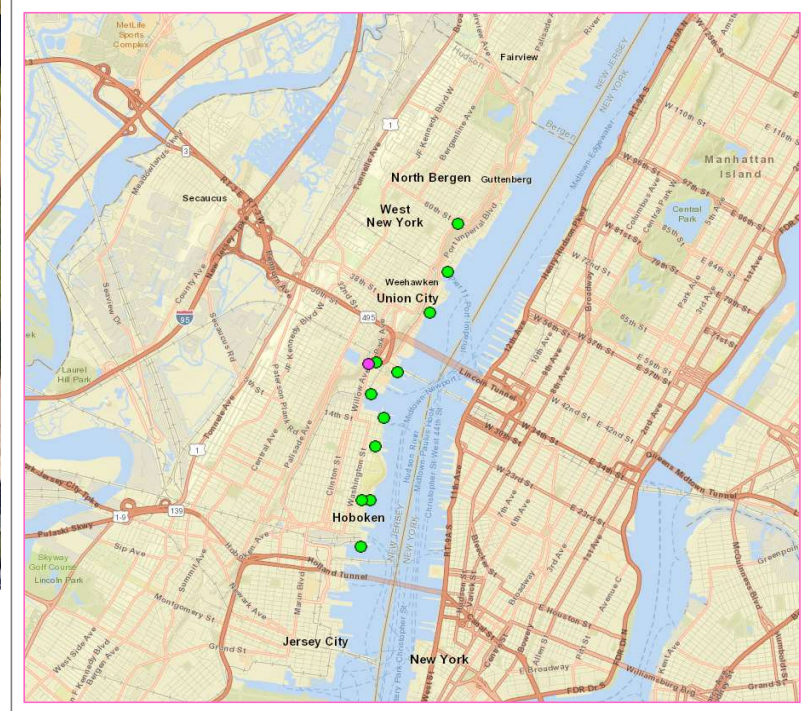
Implementation of All Kinds of Projects



Salem Street Crossing
Hackensack, NJ



C-32 Disconnect
Camden County MUA



Waterbody Advisory System
North Hudson Sewerage Authority



THANK YOU!!!

