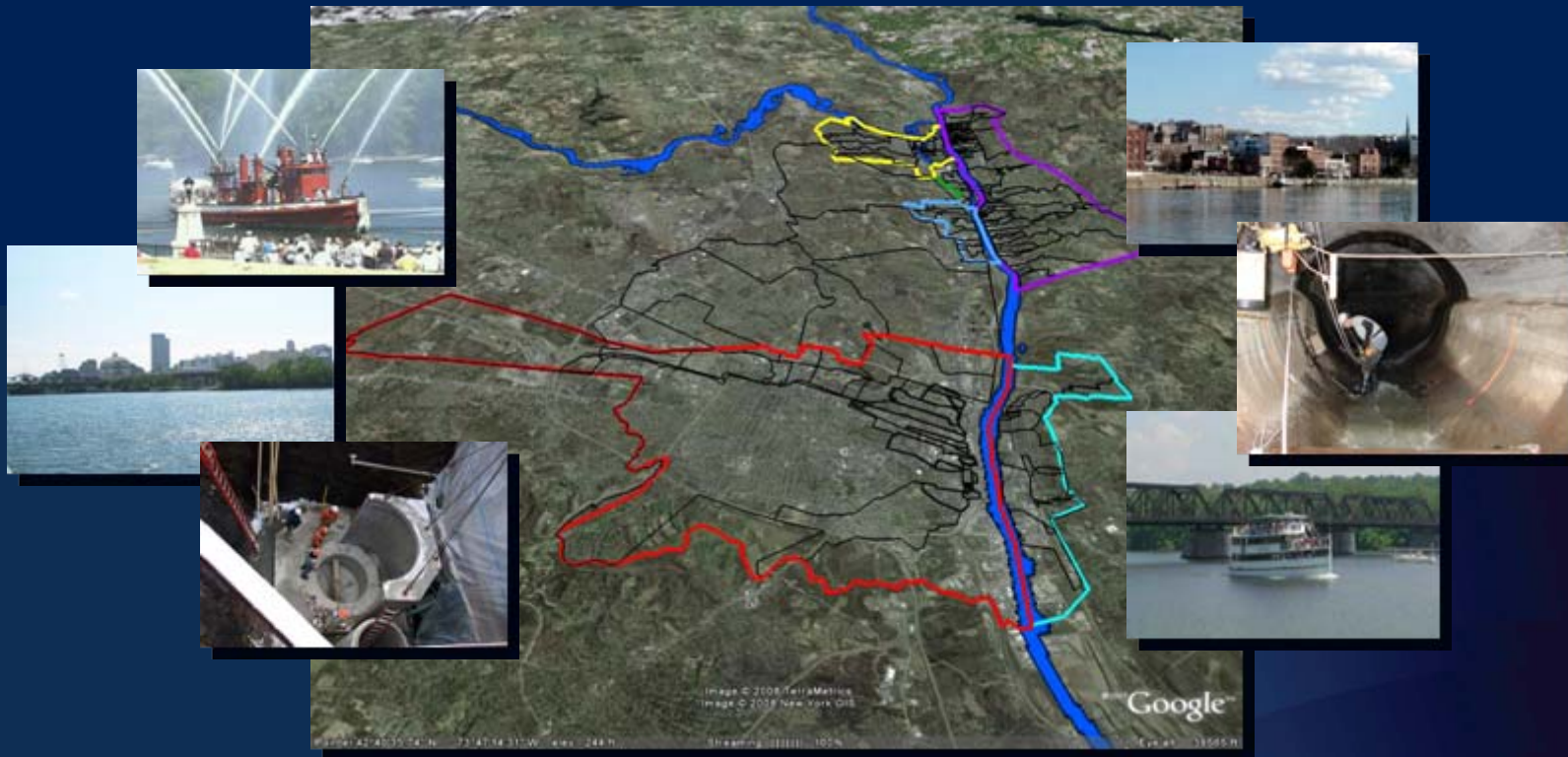


Albany Pool Combined Sewer System Long-Term Control Plan Development



Citizen Advisory Committee Meeting
March 13, 2008



Albany

Cohoes

Rensselaer

Troy

Watervliet

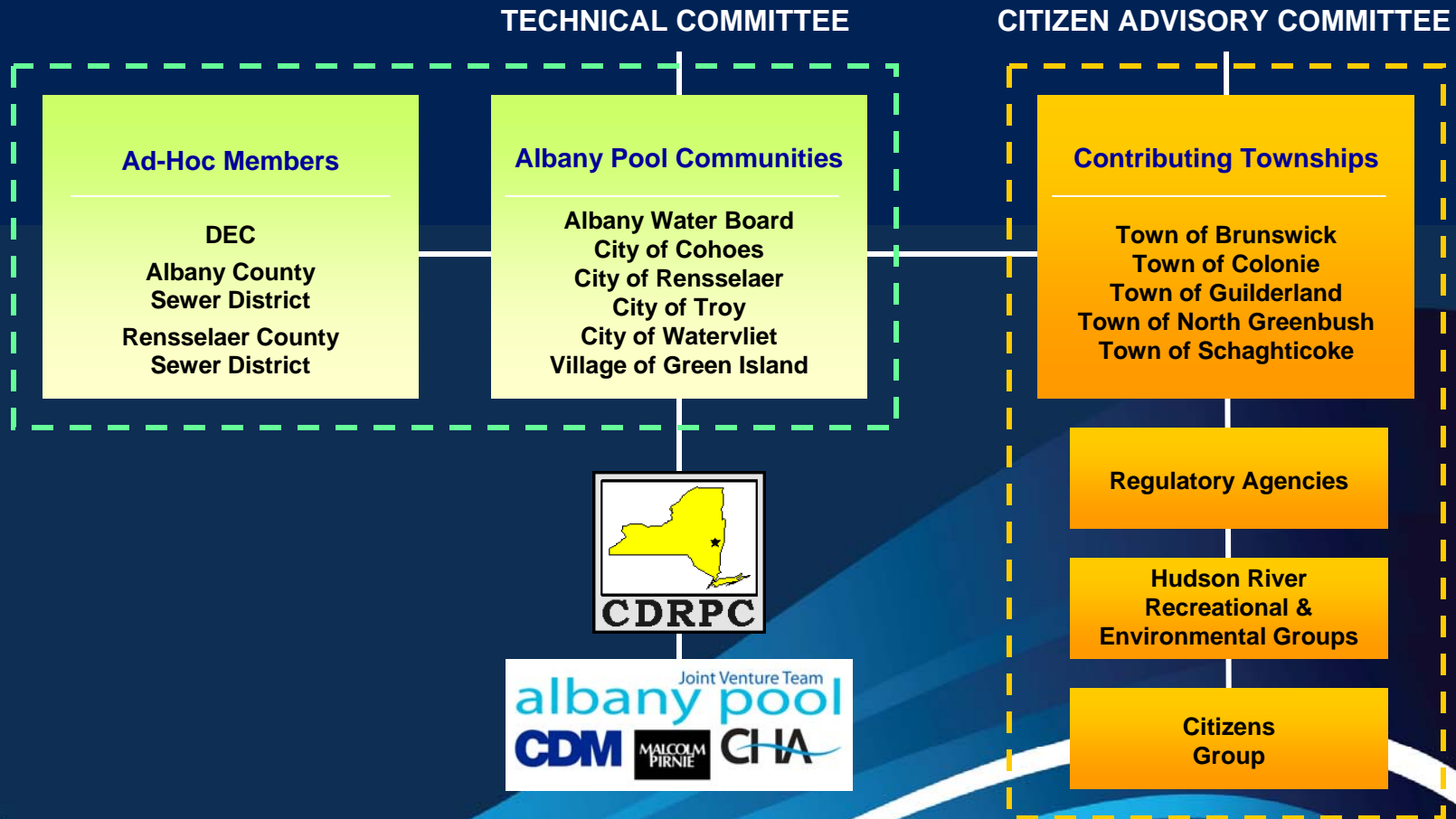
Green Island

Agenda for March 13, 2008

Citizen Advisory Committee Meeting

- Introductions - *CDRPC*
- *Overview of 1st CAC Meeting*
- Long-Term Control Plan Development - *APJVT*
 - Project Organizational Framework
 - Public Participation Process
 - Scope of Work
 - Project Schedule
- Questions and Comments

Project Organization Framework



Overview of the Technical Committee

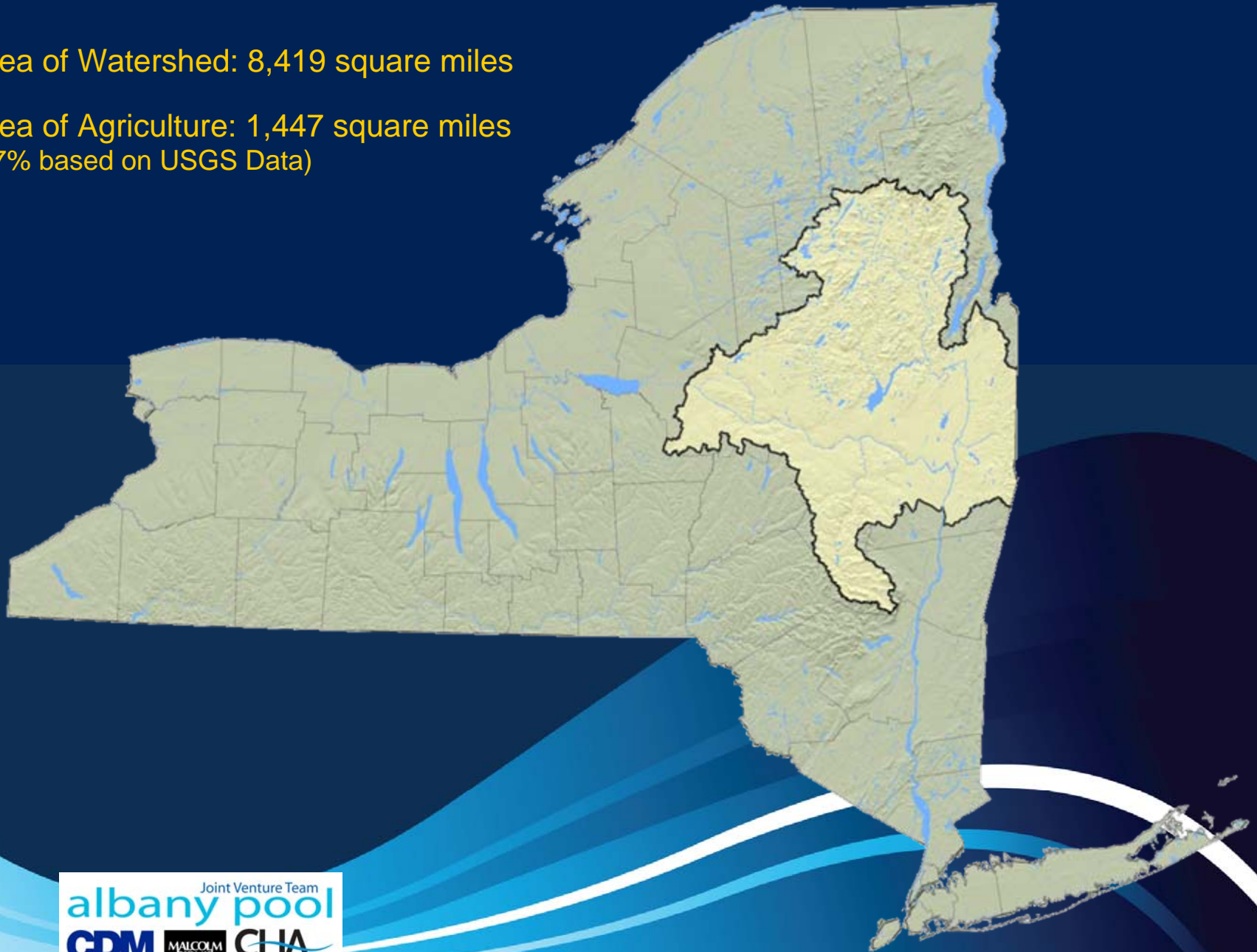
- Directs the Development of the LTCP
- Makes Recommendations to Municipal Leadership
- Six Members - 1 Appointed by each Community
- Ad-Hoc Members from DEC and County Sewer Districts

Overview of the Citizen Advisory Committee

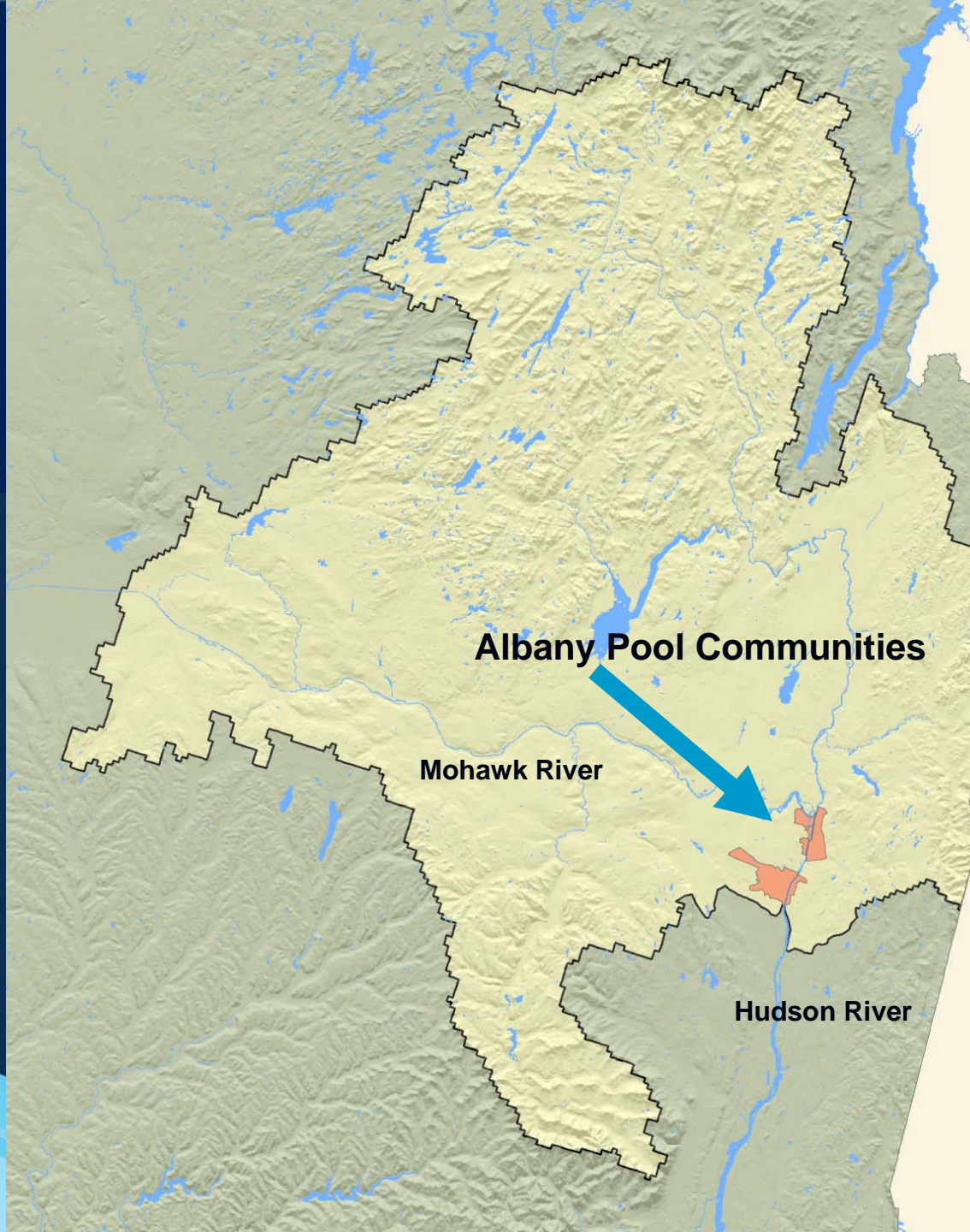
- Advises the Technical Committee on Issues Important to the Public
- Advises/Assists with Public Outreach Process
- Composed of Representatives of:
 - Albany Pool Communities' Citizens
 - Hudson River Recreational and Environmental Groups
 - State and County Agencies
 - Adjoining Municipalities

Area of Watershed: 8,419 square miles

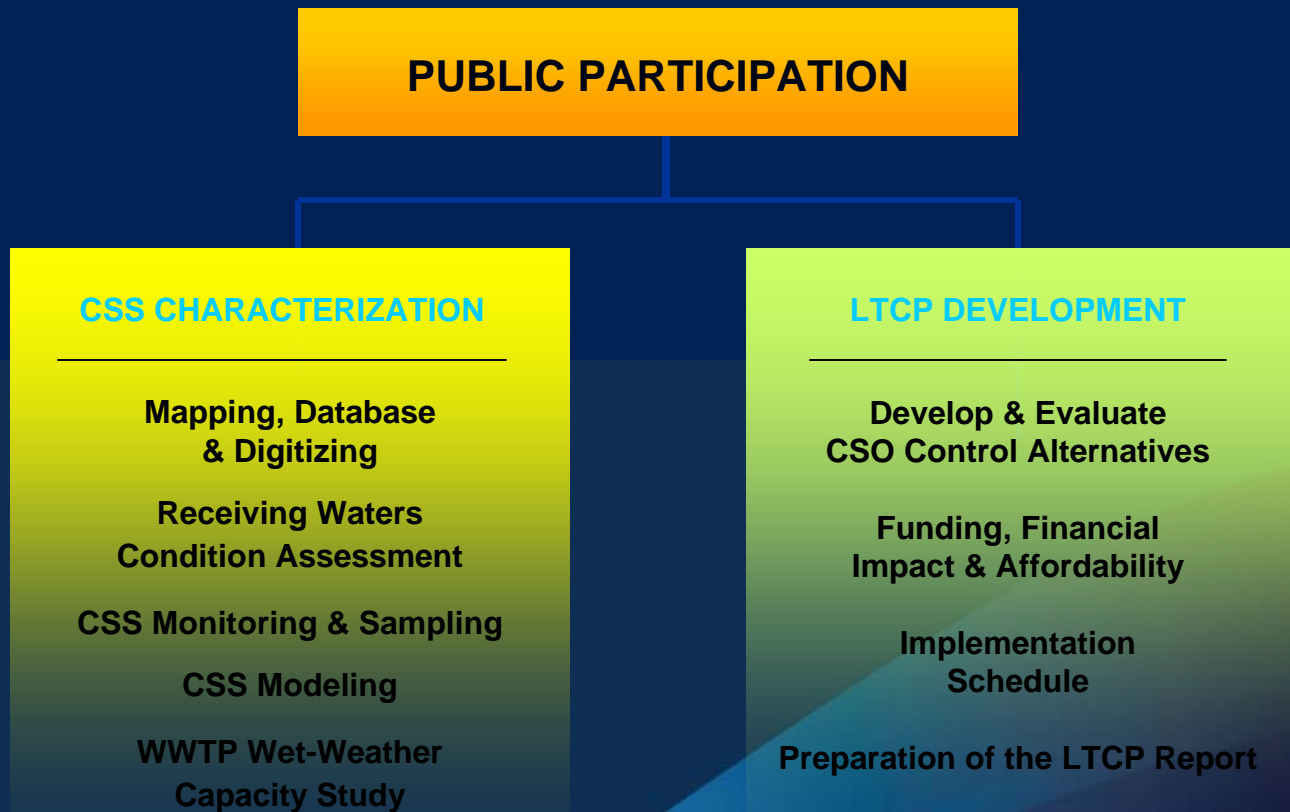
Area of Agriculture: 1,447 square miles
(17% based on USGS Data)



Watershed Based Approach



Overview of the LTCP Development Process



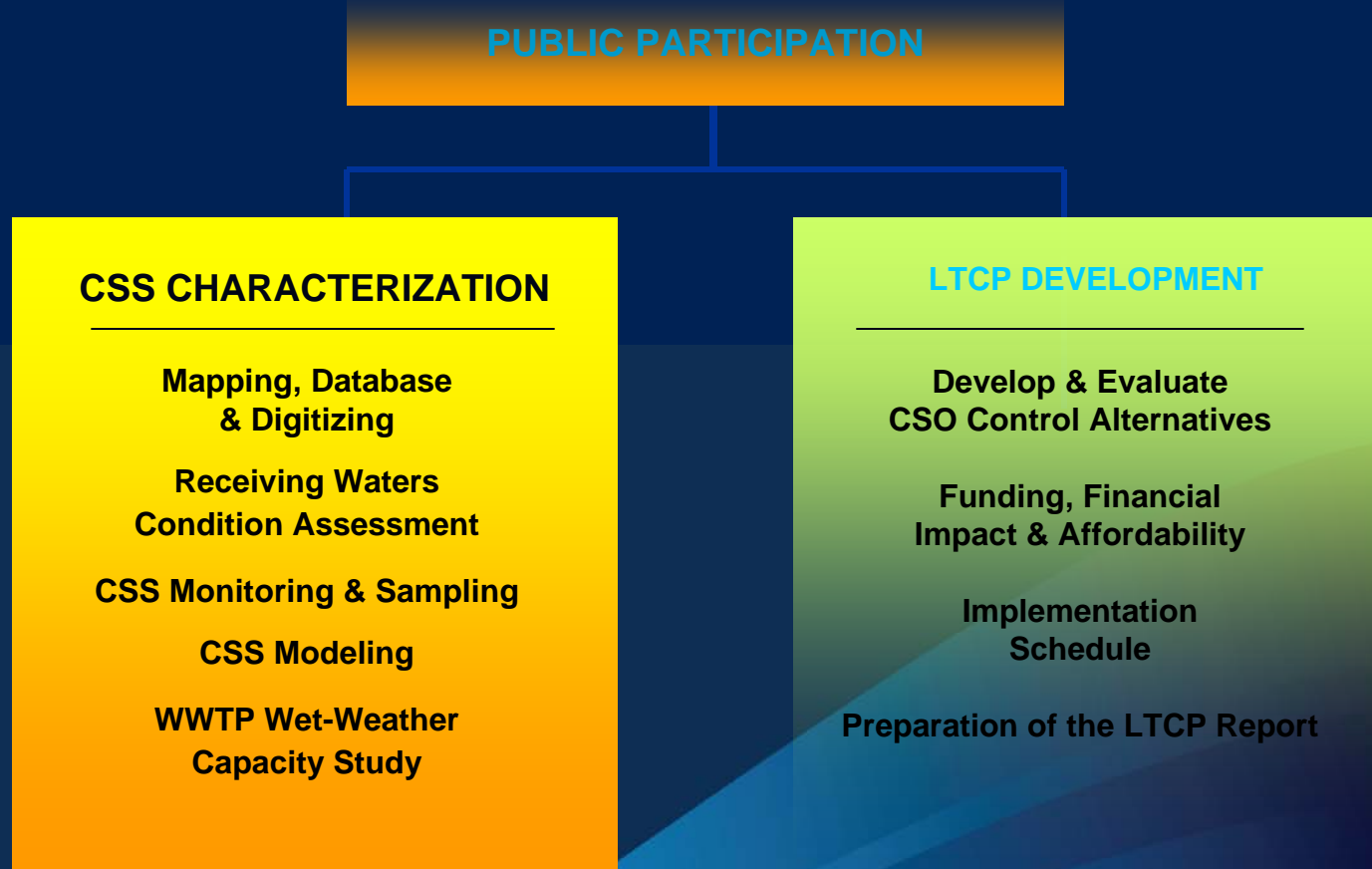
Public Participation Plan

- Goals and Objectives:
 - Provide the Albany Pool Municipal Officials with Public Input
 - Establish Early Communication with the Public
 - Encourage Dialogue Between NYSDEC and the General Public
 - Solicit Public Concerns During the LTCP Development
 - Make the Technical Aspects of the Project Clear
 - Build Awareness of the Issues Associated with CSOs

Public Participation Plan

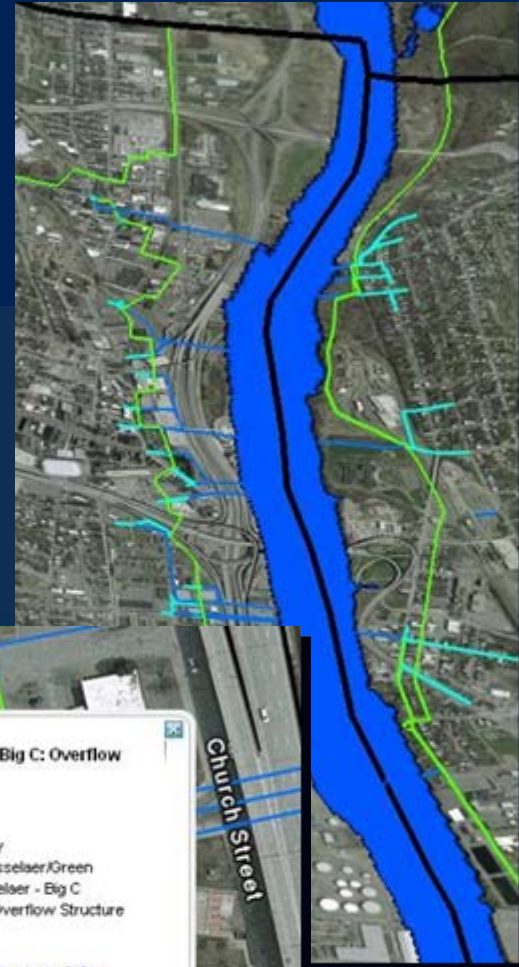
- Target Audiences:
 - Albany Pool Communities' Ratepayers/Taxpayers and Residents
 - The Elected and Appointed Leadership of the Albany Pool Communities
 - Environmental Groups and Recreational Users Associated with the Hudson River
 - The Leadership and Residents of Communities Contributing Flows to the Albany Pool CSS
 - Riverfront Business Operators

Overview of the LTCP Development Process

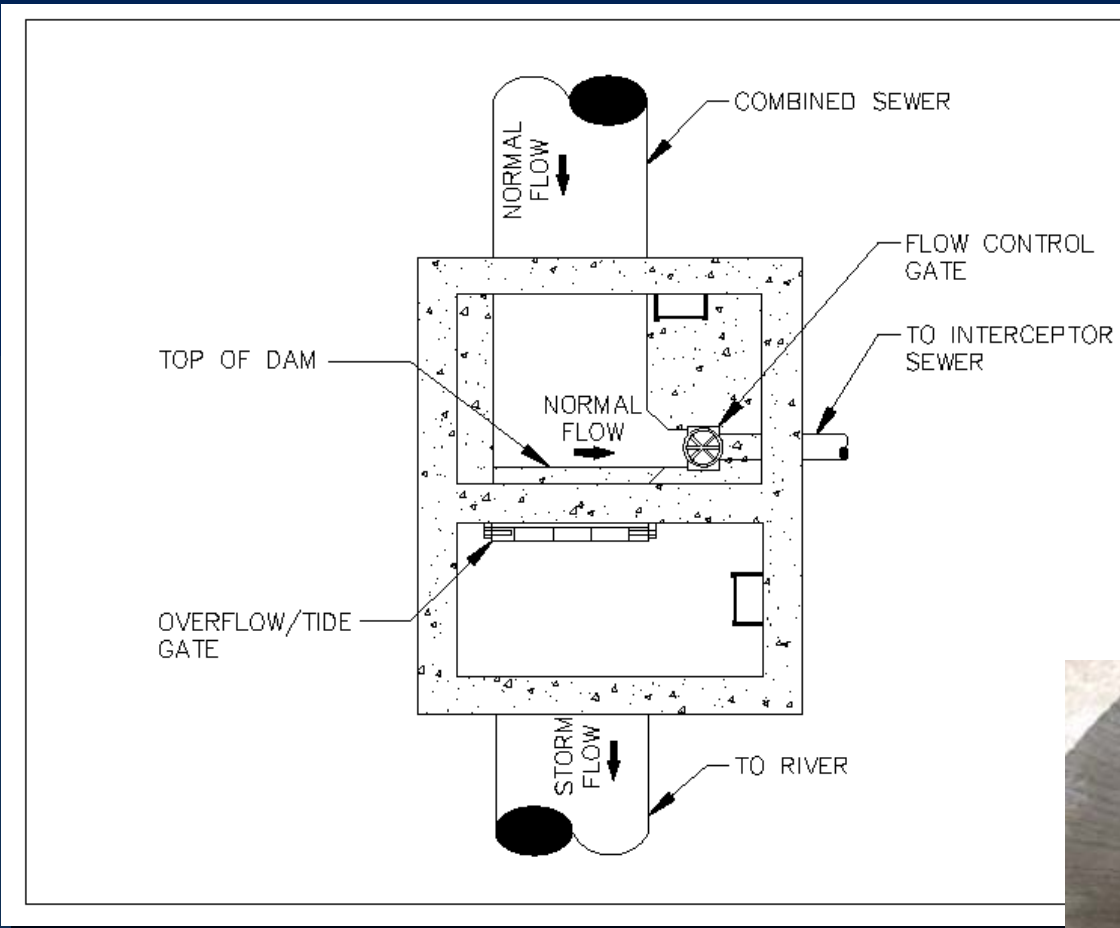


CSS Mapping, Database and Digitizing

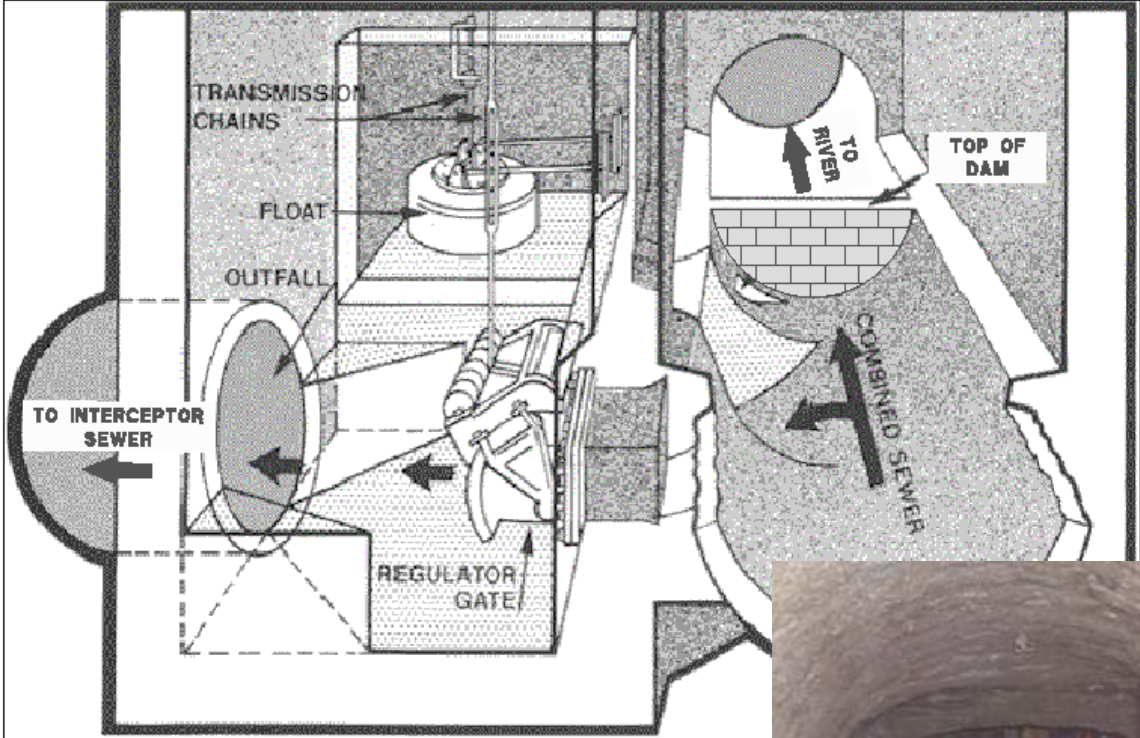
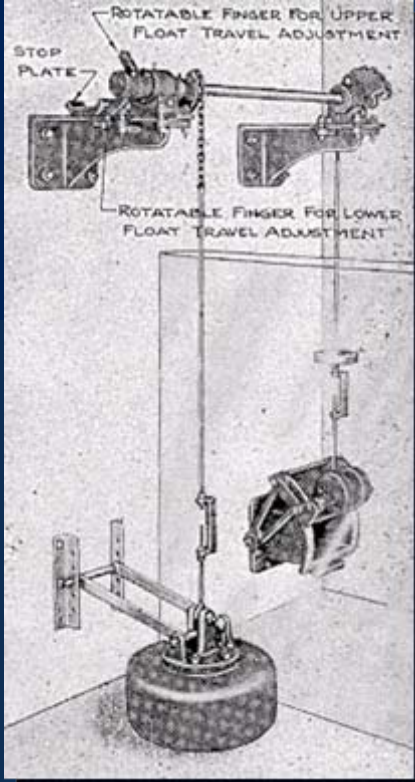
- Data Collection
 - CSS Pipe Data
 - CSS Structure Data
 - Sewershed Data
- Field Verification
- Development of GIS Database



Gravity Overflow with Manual Gate

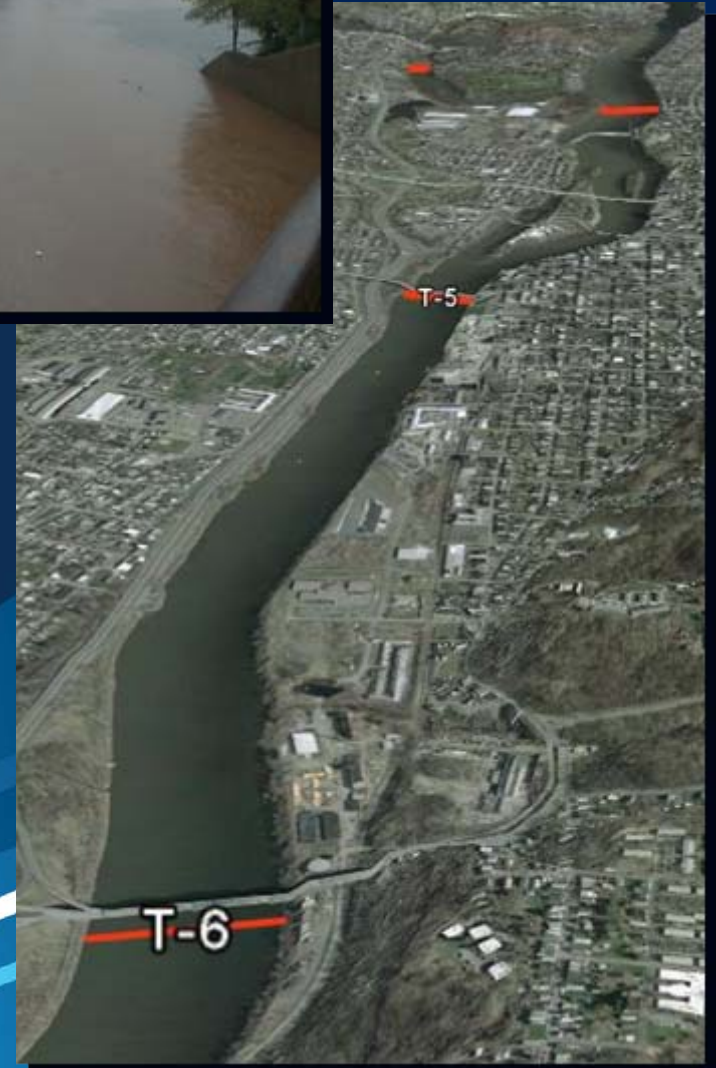


Overflow Regulator Gate



Receiving Waters Conditions Assessment

- General Approach:
 - Initial Assessment with Existing Data
 - Collection of Additional Sampling Data
 - Dry-Weather
 - Wet-Weather



Combined Sewer System Monitoring

- Precipitation Data
- Sewer Network Monitoring
 - Flow Rate
 - Hydraulic Grade Line
- CSO Outfall Monitoring and Sampling
 - Overflow Rate/Volume
 - Characterize Overflows



Combined Sewer System Modeling

- Model Development
- Calibration
- Application
 - Existing Conditions
 - Evaluate Control Alternatives
- CSO Control Benefits
 - CSO Frequency, Volume and Load Reductions
 - Water Quality Conditions



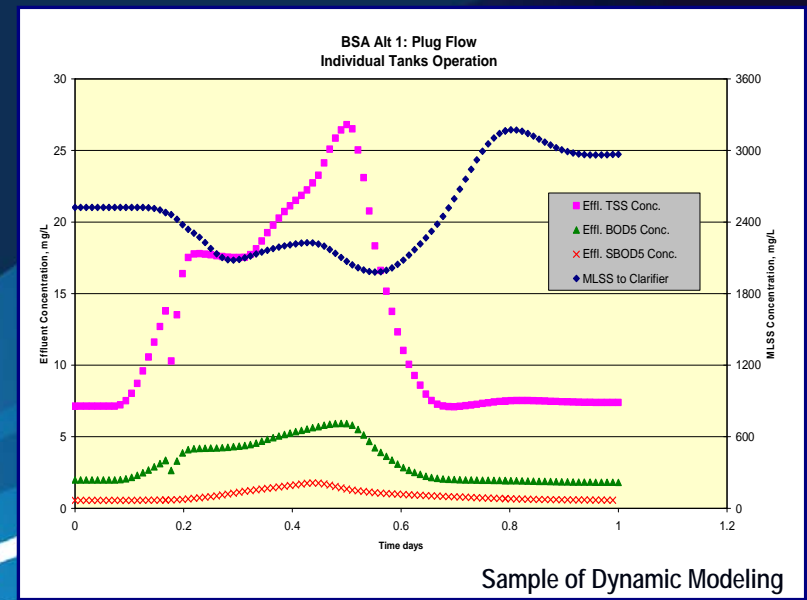
WWTP Wet-Weather Capacity Study

- Evaluation Objectives:
 - Document Existing WWTP Capacity
 - Process
 - Hydraulic
 - Evaluate Alternatives to Increase WWTP Capacity
 - Secondary Capacity
 - Primary Capacity

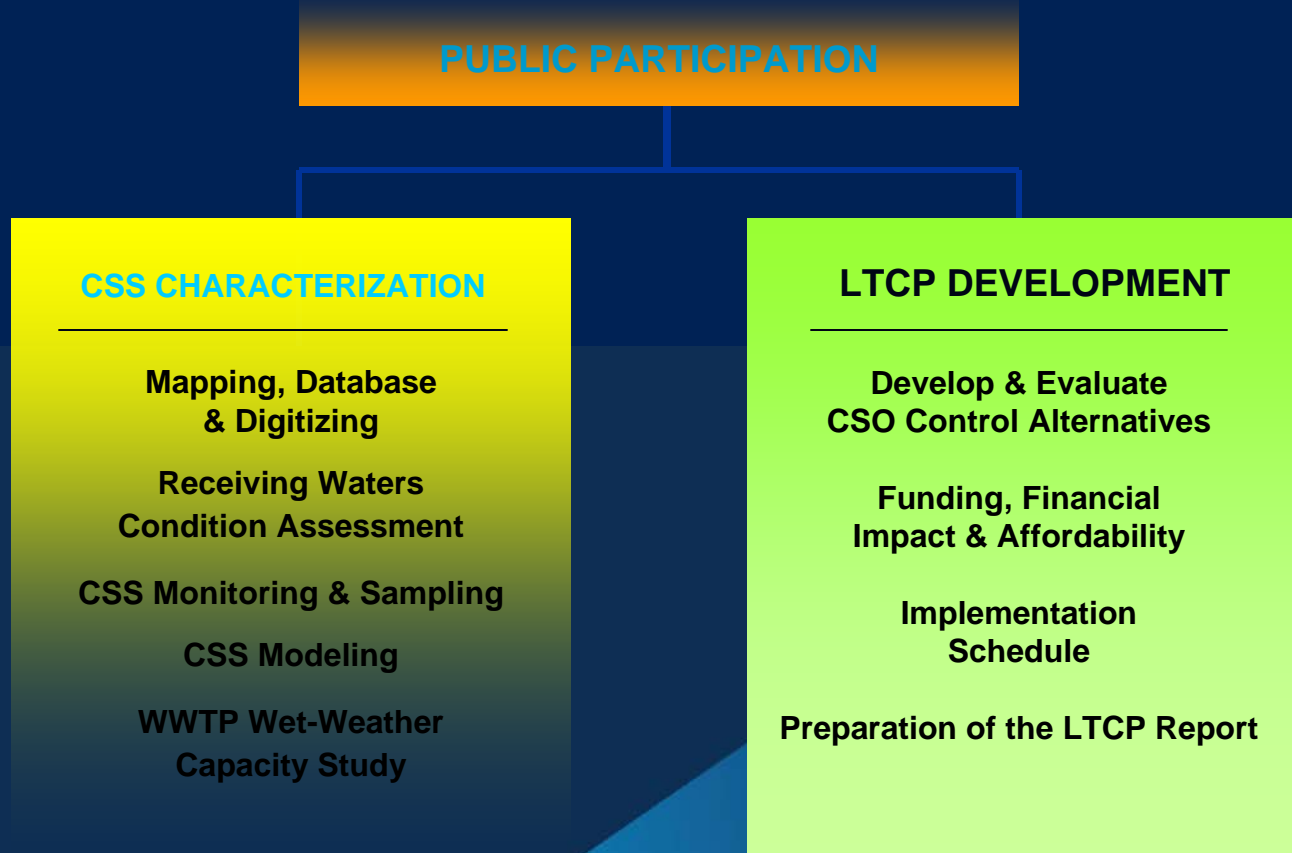


WWTP Wet-Weather Capacity Study

- Major Activities (for each plant):
 - Review Original Design Data
 - Review Historical Performance Data
 - Establish Future Flows and Loadings
 - Dynamic Process Modeling
 - Hydraulic Modeling
 - Brainstorming & Evaluation of Capacity Alternatives
 - WWTP Capacity Report

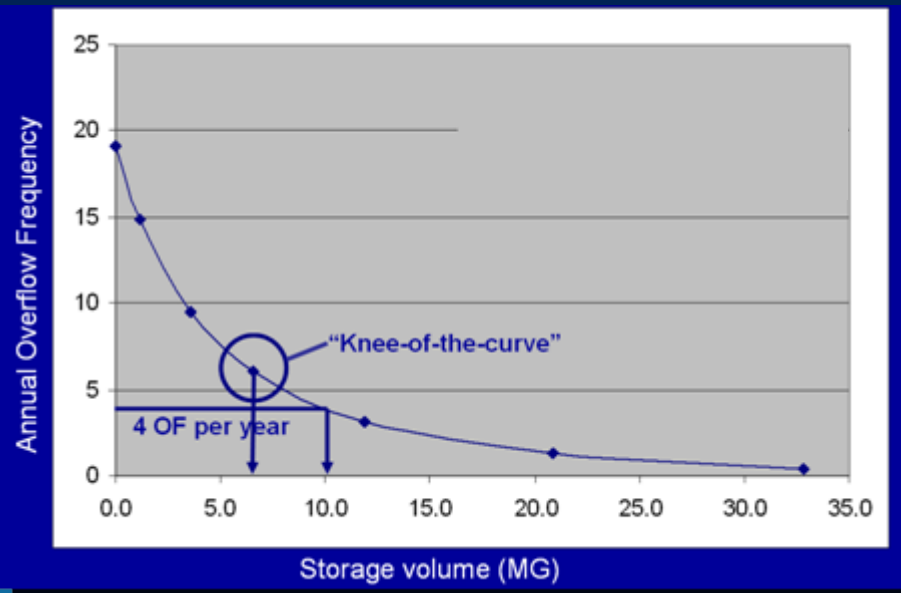


Overview of the LTCP Development Process



Develop and Evaluate CSO Control Alternatives

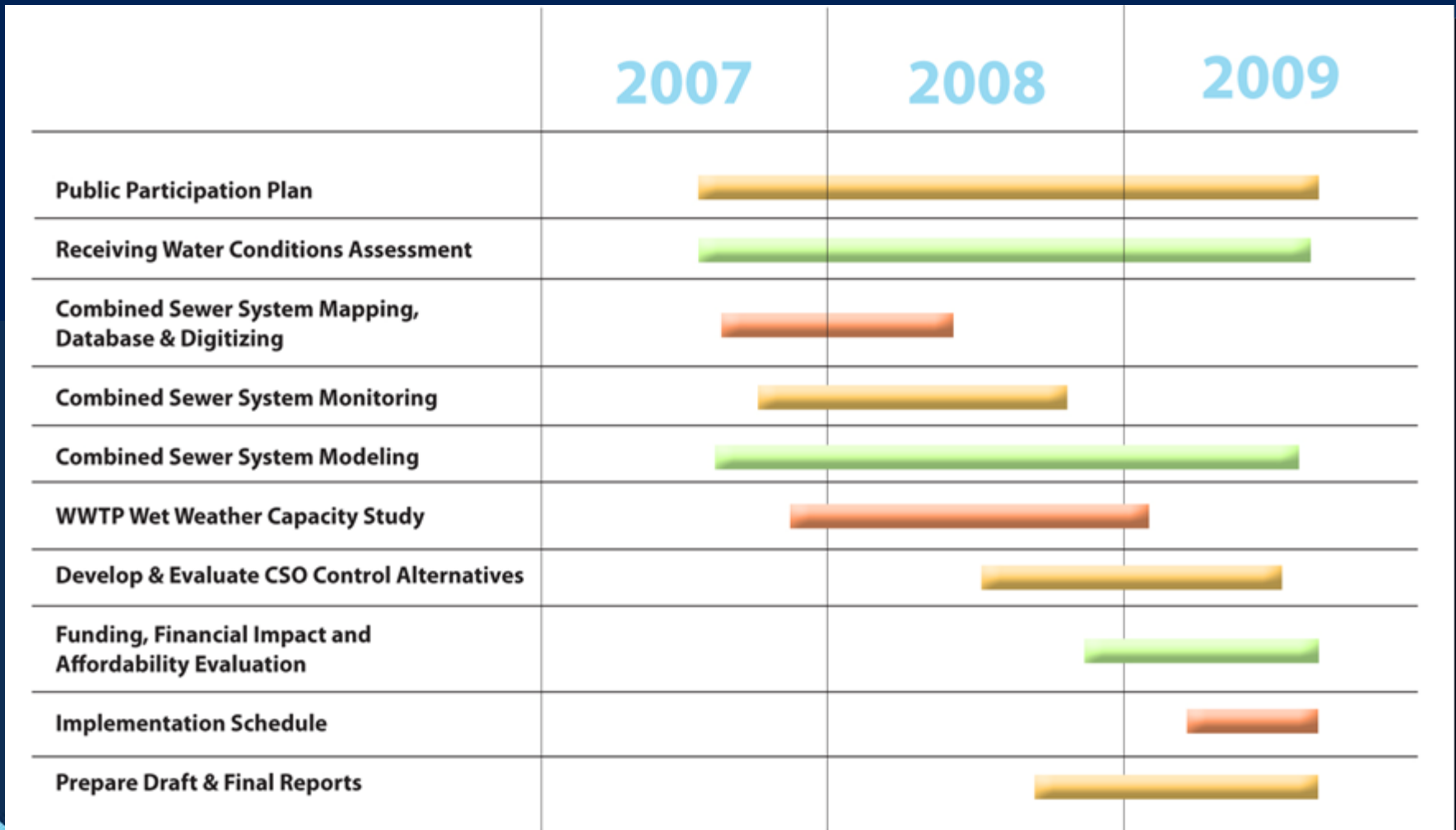
- Select Appropriate Compliance Strategy
- Shortlist Viable CSO Control Technologies
 - Screening/Floatables Control
 - High Rate Treatment
 - Real Time Control
 - Storage
 - Partial Separation
 - Green Infrastructure
- Develop Recommended CSO Control Alternatives
- Establish Cost-Effective Controls (“Knee-of-Curve”)



Financial Impact and Affordability Evaluation

- Use EPA Guidance Document
- Adjust to Future Conditions
 - Property Tax Revenues
 - Unemployment
 - Business Environment
 - Debt Relative to Property Value
- Reflect “Real” Capital Improvement Needs of the Systems
- Use Rates Model to Evaluate Cost-Schedule Options

Project Schedule

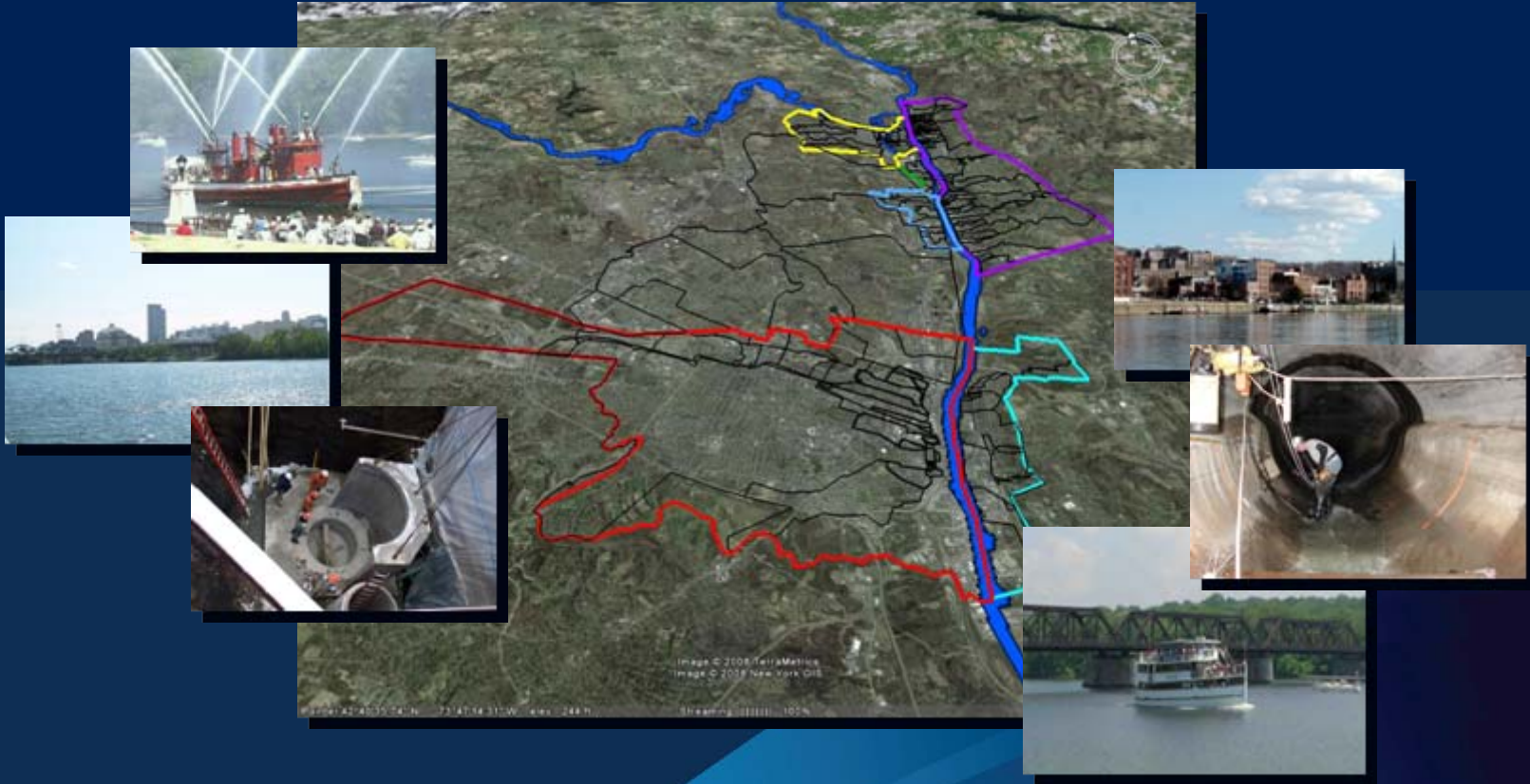


Moving Forward...

Public Informational Meeting Schedule

- **Round 1 - Project Introduction and Overview**
March 31, 2008 @ HVCC
- Round 2 - Overview of CSS Characterization Findings
4th Quarter of 2008
- Round 3 - Evaluation of Mitigation Alternatives
2nd Quarter of 2009
- Round 4 - Presentation of LTCP Final Draft
3rd Quarter of 2009

Albany Pool Combined Sewer System Long-Term Control Plan Development



Questions or Comments