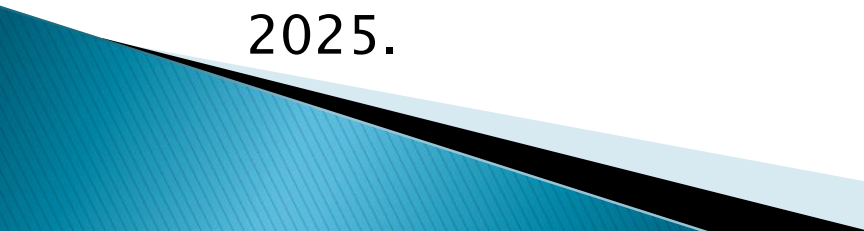


City of Fall River  
STORMWATER UTILITY  
AND THE CSO PROGRAM  
or; Wet Weather \$\$\$\$\$\$\$

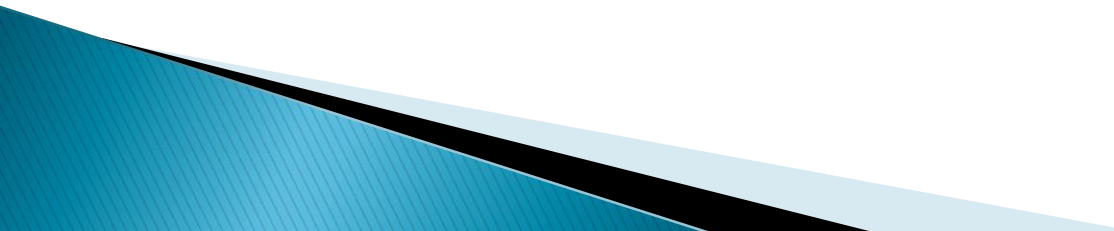
*OCTOBER 16, 2014*

*Terrance Sullivan, Administrator of Community Utilities*

# History

- The Stormwater Utility was implemented in 2008.....  
(WITH GREAT DIFFICULTY).
  - CDM Smith prepared the plan and supporting data.
  - Prior to 2008 all sewer and stormwater costs were incorporated in the sewer user fee.
  - Prior to 1981 all sewer and stormwater costs were incorporated in the tax base.
  - The CSO Project started planning phases in 1984 and currently has a proposed completion date of December 31, 2025.
- 

# Storm Fee Basics

- ▶ The ERU is \$35 per quarter. No increase since 2008 implementation.
  - ▶ All residential properties from 1 to 8 units are charged at the base ERU rate.
  - ▶ All commercial and industrial properties are charged based on \$35/quarter per 2,800 square feet of impervious surface.
- 

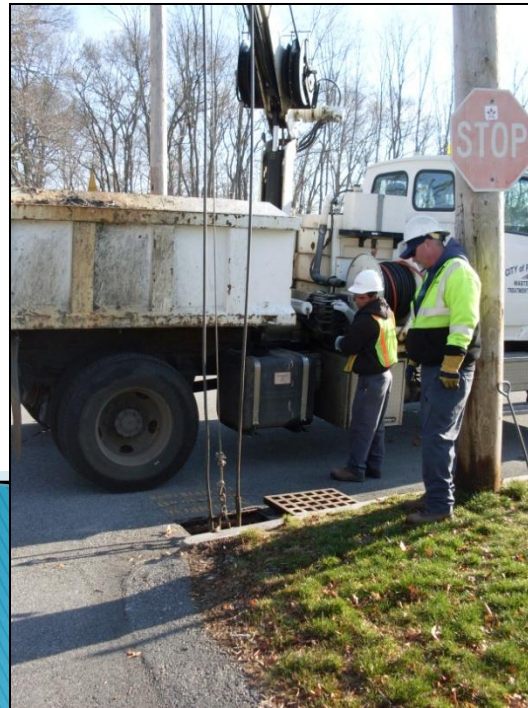
# WHO PAYS?

- ▶ Any property that contributes to stormwater systems, including:
  - Combined sewers.
  - Catch basins.
  - Storm drains / pipes / culverts.
  - Wetlands, Streams, Detention Ponds and Ponds that have control structures such as dams and gatehouses.

# Storm Fee Revenue Use.

- ▶ Stormwater and Combined Sewer System maintenance is performed by the same staff under the Sewer Division.
  - Catch basin cleaning (1,700/year).
  - MS4 Compliance and GIS documentation.
  - Emergency Response/Flood Control.
  - Culvert Cleaning/Inspection/IDDE
  - Assistance on dam maintenance.
- ▶ Debt and Capital Improvements.

# Collection System Cleaning and Maintenance



# Flooding issues



# Quequechan River



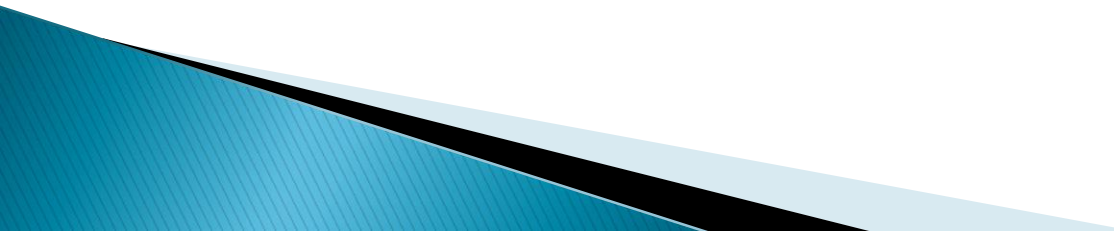




\$3,600,000 in dam rehabilitation costs



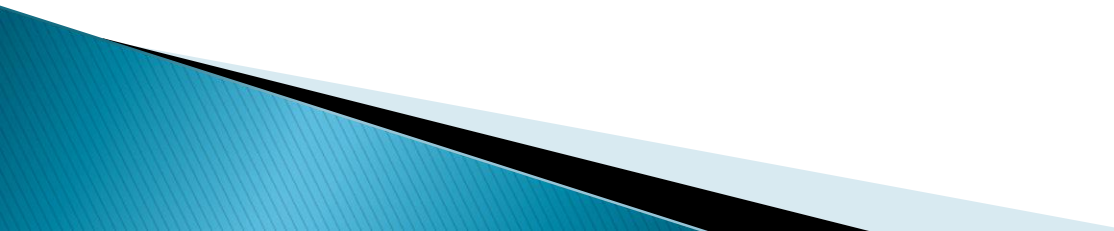
# Where else do the \$\$\$ Go.

- ▶ CSO Project Debt is \$8.2M/Year.
  - ▶ Stevens Street drainage project –\$800K.
  - ▶ Percentage of Treatment Facility costs for Wet Weather operations.
  - ▶ Percentage of staff costs.
- 

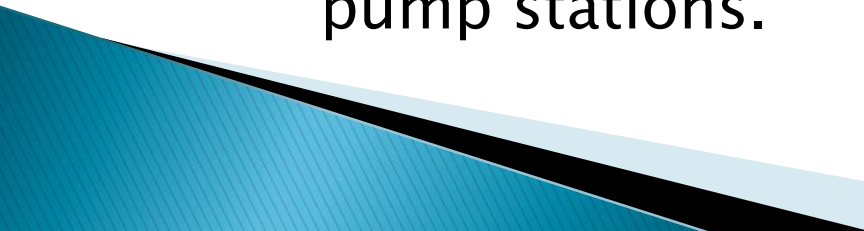
# CSO Project Costs

- ▶ Facilities Planning/Design (1984 - 1994)  
\$9,532,909
- ▶ Project Construction to December 2015  
\$178,719,809
- ▶ Total Project Construction Authorization  
\$185,000,000 (Completion in 2025)

# CSO Loans and Grants

- ▶ \$157,000,000 SRF loans
  - ▶ \$ 17,000,000 Open Market Loans
  - ▶ \$ 15,000,000 Federal Grants
  
  - ▶ \$ 189,000,000 TOTAL
- 

# CSO Project Components Completed

- ▶ Expansion of the Wastewater Treatment Facilities from 50 to 106 MGD
  - ▶ 20-foot Diameter Deep Rock Tunnel, 3 Miles Long & 100 Feet Deep
  - ▶ Nine CSO Dropshafts that interconnect the near surface combined sewers to the tunnel.
  - ▶ One Screening/Disinfection Facility
  - ▶ Quequechan Surface Interceptor.
  - ▶ Rehabilitation of the Central and Cove St. pump stations.
- 

# Fall River Wastewater Treatment Facility (expanded for CSO 1997-2000)



**Wet Weather Treatment Capacity Increased from 50 to 106 mgd**

# CSO Tunnel



# Tunnel Boring Machine

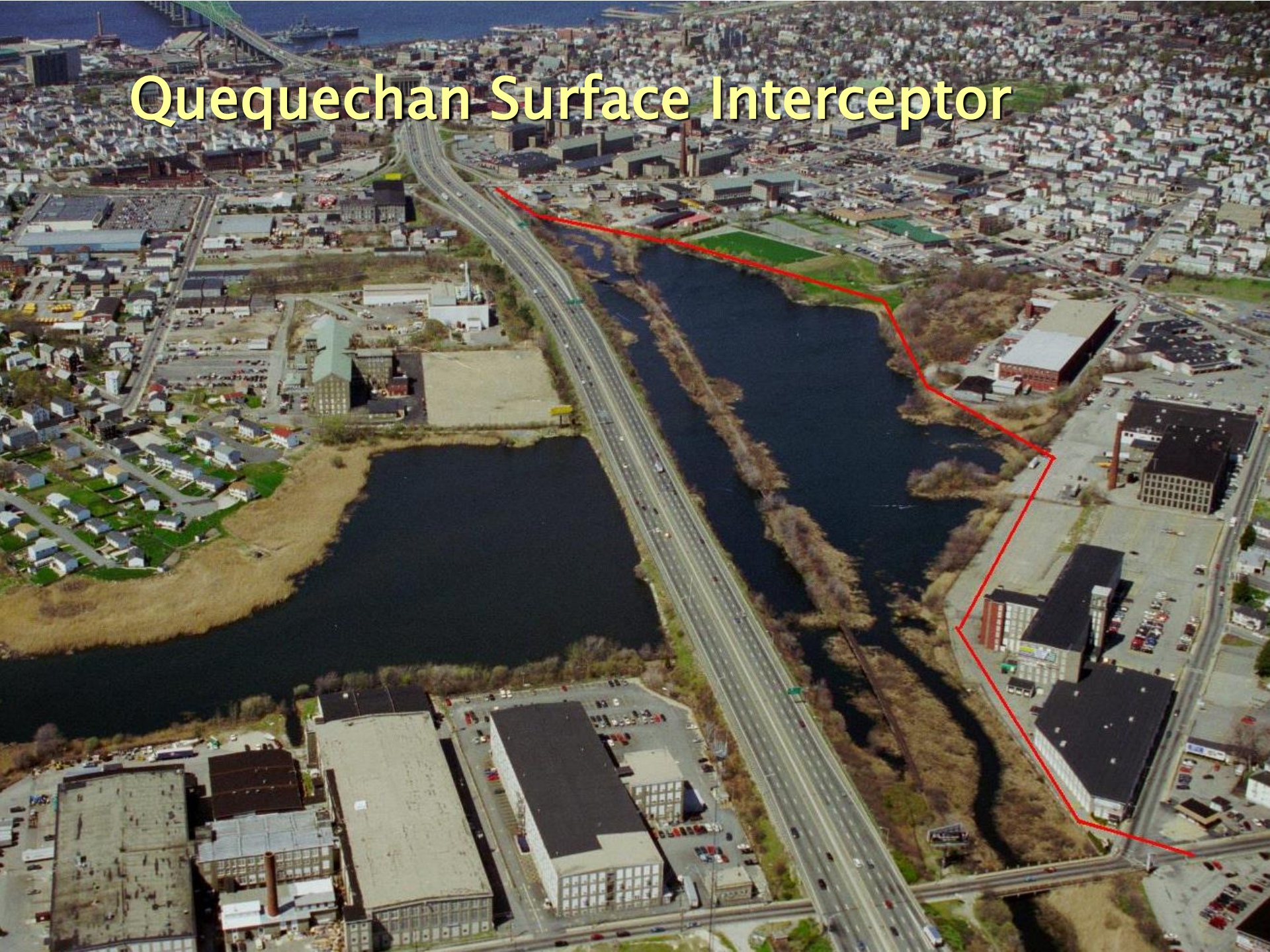




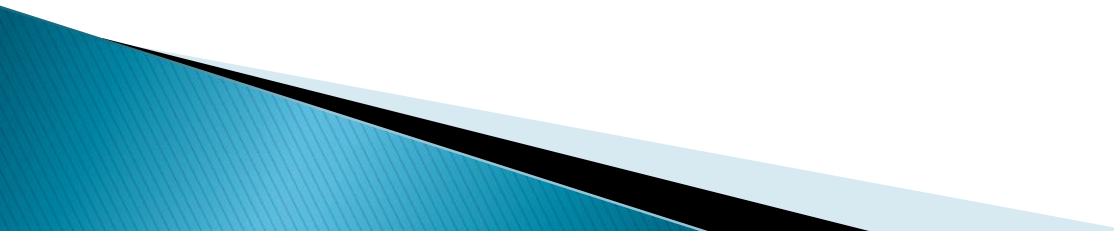
# Cove St Screening and Disinfection Facility



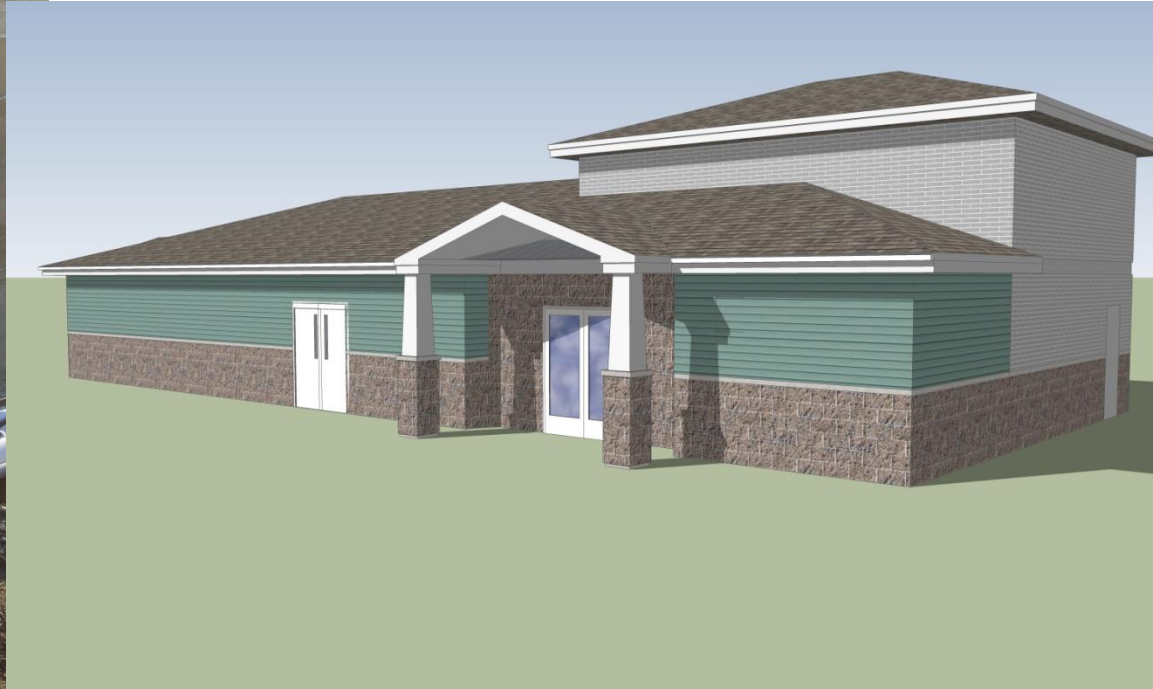
# Quequechan Surface Interceptor



# Projects Underway

- ▶ President Avenue Screening/Disinfection Facility to be completed in 2015.
  - ▶ Integrated Storm/Sewer Master Plan.
  - ▶ Planning/Design of Flood Control Projects.
  - ▶ City Pier and Alton Street Drainage Projects planned for 2017–2025.
- 

# President Ave Screening and Disinfection Facility




# FY15 Revenue Projections

|                               |                      |
|-------------------------------|----------------------|
| ▶ Sewer User Fee (\$4.19/ccf) | \$11,686,748.        |
| ▶ <i>Storm Fee (\$35/ERU)</i> | <i>\$ 4,660,000.</i> |
| ▶ Liens and Interest          | \$ 1,736,955.        |
| ▶ Septage Receiving           | \$ 190,000.          |
| ▶ Other                       | \$ 295,000.          |
| ▶ Reserve Fund Use            | \$ 876,000.          |
| ▶ Total                       | \$19, 444,703.       |

# Future Actions and Concerns

- ▶ Integrated Plan Draft by December 2015.
  - Flood Control—\$10,000,000+
  - Aged WWTF and Pump Stations.
  - CSO Project completion by 2025.
  - SSO—\$35,000,000+.
  - Nitrogen Removal—\$75,000,000+.
  - Sewer/Storm System Improvements.
  - MS4 Stormwater Permit compliance.
  - Long Term Maintenance Costs.

# Wet Weather \$\$\$\$\$\$

- ▶ Managing rain is expensive.
  - ▶ Aging infrastructure replacement and rehabilitation is expensive.
  - ▶ Continued expansion of regulations and compliance therein is expensive.
  - ▶ Storm intensities appear to be increasing.
  - ▶ Quit whining.....try to explain that to the customers that are paying the rising water/sewer/storm bills.
- 

Questions?