JOINT MEETING OF ESSEX AND UNION COUNTIES

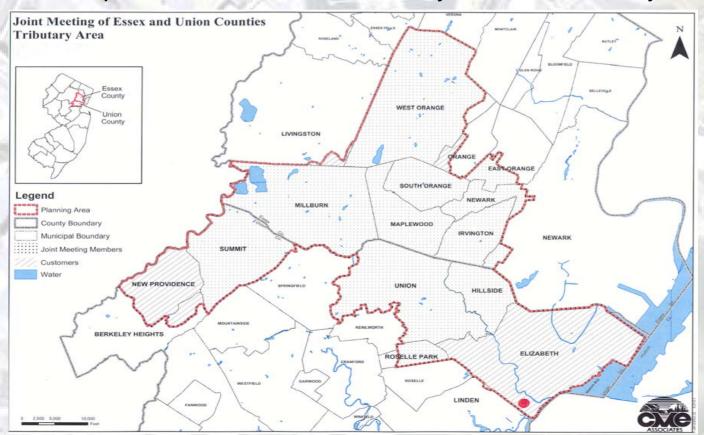
Virtual Plant Tour

JOINT MEETING OF ESSEX AND UNION COUNTIES Plant Overview

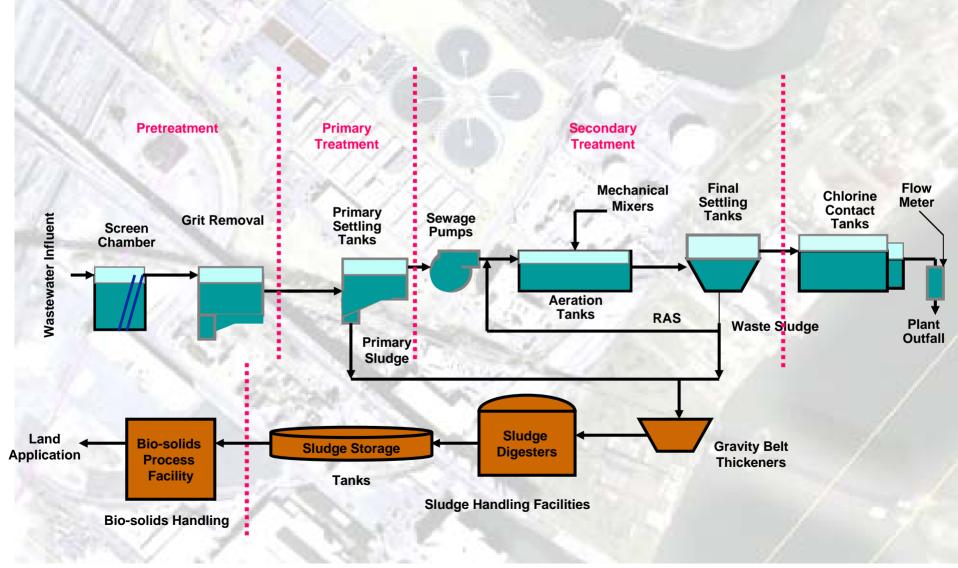
- Joint Meeting founded in 1898
- Original plant built in 1930's and upgraded in 1970's, 1990's and 2000's.
- Subsequent sludge dewatering and sludge drying operations
- Plant rated capacity of 85 million gallons per day (mgd), average flow rate 67 mgd
- Serves 64 square mile drainage area and 520,000 users
- 43 miles of original and supplementary trunk lines

JOINT MEETING OF ESSEX AND UNION COUNTIES Plant Overview

- Wastewater Influent
 - Gravity Flow of Sanitary Wastes from Member Communities
 - Pumped Flow of Storm & Sanitary Wastes from City of Elizabeth



JOINT MEETING OF ESSEX AND UNION COUNTIES Simplified Process Flow Diagram



Wastewater Influent



- Influent Screenings
 - Two Course Screens
 - Two Fine Screens



Grit Removal



- Primary Settling Tanks
 - Four Tanks
 - Typically two tanks always in service/two tanks out of Service
 - Third & Fourth Tanks for Stormwater Flow surges





- Aeration Tanks
 - Four Tanks
 - Mechanical Aerators







- Final Settling Tanks
 - Four Circular Settling Tanks





Chlorine Contact Tanks





- Solids Handling
 - Thickening
 - Gravity Thickening
 - Belt Filter Presses
 - Sludge Digestion
 - Sludge Dewatering
 - Sludge Drying







- Plant Outfall
 - Discharges into Arthur Kill



