

ERIE WATER WORKS

SPOTLIGHT ON 2019 CAPITAL IMPROVEMENT PROJECTS

WATER STORAGE PROJECTS

➤ **STERRETTANIA TANK, WEST BOOSTER TANK & HYDROPILLAR INTERIOR & EXTERIOR RECOATING**

It is necessary to maintain and repair tank coatings in order to prevent corrosion of the steel underneath. Failure of the steel could cause significant disruption to our customer's water service. Keeping EWW tanks in a reliable operational state is critical to our business.



The 965,000 gallon **Sterrettania Tank** (shown to the left) is located south of the Walnut Creek Middle School. This tank received new interior and exterior coating (paint) systems in 2019. The tank was originally constructed by Advance Tank & Construction in 2006. The 37-foot diameter, 120-foot deep welded steel tank provides water for average and peak day use and emergencies (such as power outages or fires) in Millcreek Township. It also provides stored water to the Fairview Township Water Authorities' service area along Heidler Road.

The **West Booster Tank and Hydropillar** (shown to the right) are partner tanks along High Street in Millcreek Township that provide stored water to parts of the City of Erie and Millcreek Township. The tank holds 800,000 gallons while the hydropillar contains 1,000,000 gallons of water. The interior and exterior were recoated in 2019 and new, continuously operated, mechanical mixing systems were installed in order to promote uniform water quality and to help control disinfection byproducts. Circulating water in storage facilities helps to keep chlorine levels uniform, reduce water age in the distribution system, and help prevent thermal stratification year round.



TRANSMISSION & DISTRIBUTION PROJECTS

➤ **EAST LAKE ROAD WATER MAIN REPLACEMENT – PHASE 4**

The 4th and final phase of the East Lake Road Water Main Replacement Project was completed in September 2019. Phase 4 replaced 6,700 feet of failing 12-inch pipe from Irvine Drive to Bartlett Road. The overall project began in 2008 near Wabtec. The goal was to replace and improve aging and maintenance-intensive infrastructure in Lawrence Park and Harborcreek Township. In total, EWW abandoned and replaced 27,500 feet (5.2 miles) of 12-inch diameter cast iron water main with new 20-inch and 16-inch ductile iron pipe. In addition, 156 valves and 35 fire hydrants were installed as part of the construction.



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➤ EAST 11th STREET, GLENDALE AVENUE, & JUNE STREET WATER MAIN REPLACEMENT PROJECT

The subject water mains have had over 40 breaks in the past 20 years. Over 3,000 of 6-inch and 12-inch water main has been replaced as part of the project, which is located in the City of Erie. The East 11th Street portion was replaced from Hess to Payne Avenue. The Glendale Avenue water main was replaced from Cameron Road to June Street. Finally, the June Street work extended from Glendale Avenue to Fairmount Parkway. Replacing infrastructure is an important challenge facing public and private utilities across the United States, but also one that must be addressed strategically and methodically.



➤ PEACH STREET WATER MAIN REPLACEMENT (WEST GATE TO SHUNPIKE)



This project replaced over 2,000 feet of 8-inch and 12-inch water main along Peach Street. The project extended between West Gate Drive and Shunpike Road in the City of Erie. The Peach Street corridor is extremely well traveled and populated with many commercial customers. Any water service disruptions created as a result of failing water main is problematic for businesses and motorists as well as the damage that occurs to the PENNDOT roadways. This project renewed critical infrastructure where it was needed. New service lines were provided to all customers in the area and enhanced fire protection is now provided.

GENERAL PLANT PROJECTS

➤ LANCASTER TANK BULK FILL STATION

A bulk water fill station has been installed at the Lancaster Tank located just south of the Grandview Elementary School located on Lancaster Road in Millcreek Township. With a permit from the Erie Water Works, bulk water haulers, landscapers, contractors, and other entities interested in buying water in bulk may do so at a centralized location. After an account is set up, prepayment is made, and a permit issued, users can specify exactly how much water is needed and receive it in a controlled and safe manner. This will allow for a more comprehensive and safer approach to water withdraws for purposes unrelated to consumption.

