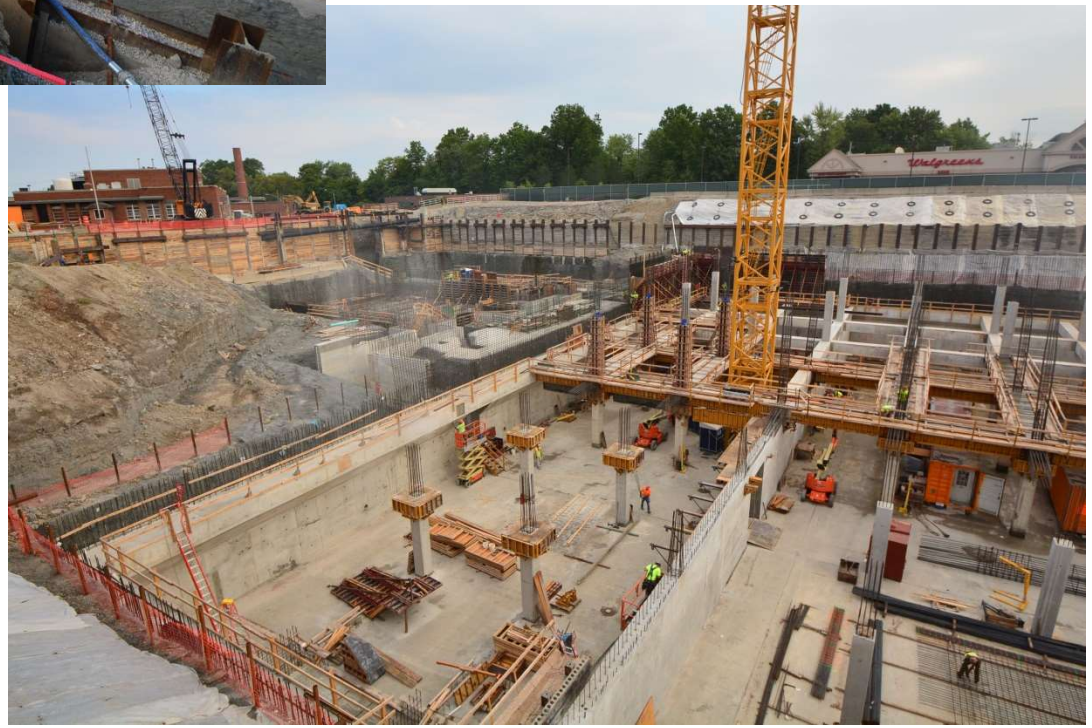
Water Reclamation Projects

Laura Travers, Stormwater Manager

Headworks and Equalization Tank

- Construction of an underground 15 million gallon equalization tank to store flows during storm events until it can be treated.
- Building of a new headworks facility for screening of incoming flow to the plant and equalization tank to remove debris, grit, and grease.

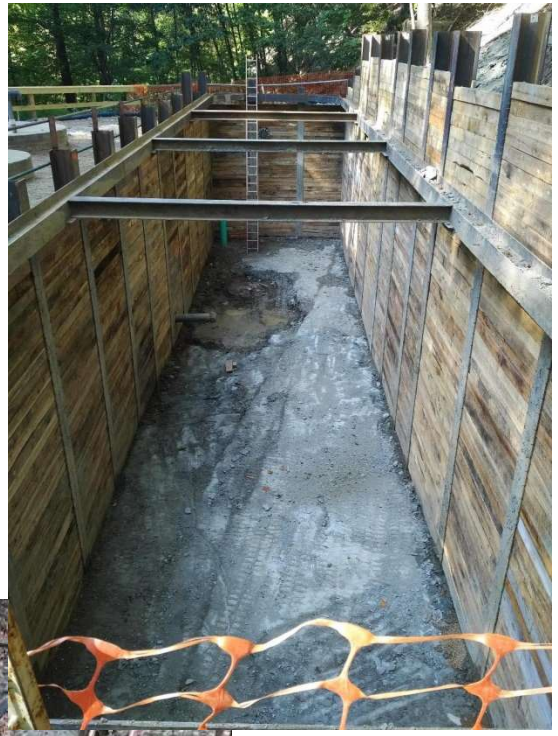

Walgreens

Membrane Bioreactor (MBR) Conversion Project

- Conversion of the current activated sludge process of treatment to membrane bioreactor (MBR) treatment.
- Conversion to MBR will update the treatment process to meet current EPA discharge limits.
- During the conversion of the plant the current activated sludge process will continue to treat waste while the plant is being converted.
- The plant will also be hydraulically restored to its 66 MGD treatment capacity.

Brandywine Sanitary Sewer Overflow (SSO) Elimination Project

- Installation of an overflow equalization tank at the existing pump station.
- The purpose of this project is to eliminate sanitary sewer overflows during periods of high flow.
- An overflow tank is being constructed, which will capture the overflows and hold them until flow returns to normal levels and the tank can be pumped to the treatment plant.



Effingham Boulevard SSO Elimination Project

- Elimination of a sanitary sewer overflow as well as point repairs to that section of the collection system.
- The system will have a cure in place liner inserted inside to seal off any infiltration.
- All areas have been restored to what they were previous to the project.

Edgecliff Relief Sewer Project

- The project consisted of the construction of a box culvert relief sewer through the wastewater treatment plant site to the existing headwall at the shore of Lake Erie.
- Also includes headwall modifications including construction below the Lake Erie water level, modifications to existing concrete structures, new concrete structures, gate installation, electrical, instrumentation and control, 74 feet of 24” sanitary sewer and manholes on Edgecliff Drive and site restoration.
- The construction of the relief sewer through the water reclamation facility will allow flows that exceed a typical rainfall year up to a 25-year storm to flow to Lake Erie and serve to eliminate sanitary sewer overflows in upstream areas of the City.