



Tuscarora Township Phases I&II Sewer Expansion Project Summary

Tuscarora Township has received USDA grant and loan funding to enable the Township to expand the community's wastewater collection system from the downtown commercial district to the surrounding residential area to the west. The sewer expansion has been subdivided into two phases due to the size of the area to be served. The existing sewer system was designed and constructed in 2014 with the intention of expansion into this residential area.

The homes within this area currently rely upon private wells and individual drain fields. Due to a combination of environmental concerns including poor soil conditions, high groundwater, surface water proximity, and well isolation distances on relatively small lots, the majority of existing onsite wastewater disposal systems are non-conforming to current environmental health standards (Sanitary Code), which can contribute to the degradation of the surrounding water quality. The lack of sewer infrastructure has also become a limiting factor to population and economic growth. The expansion project will provide a hybrid of gravity services and low pressure sewer (LPS) with individual grinder pumps.

The Phase I service area includes the Columbus Beach Club at the northerly boundary, down to Mack Avenue to the south. The service area encompasses approximately 121 acres and 226 EDUs on 202 properties. The Phase I expansion will include approximately 7,350 feet of new 8-inch gravity sewer, 22 manholes, approximately 10,400 feet of new force main sewer, 4 lift stations, 68 individual pumping stations, upgrades to increase capacity in the two existing lift stations, and an expansion of 48,000 gpd capacity at the existing WWTF. The estimated project cost for Phase I is \$6.3M and is planned to be constructed in 2023.

The Phase II service area includes the property from Mack Avenue at the north end down to the Sturgeon River at the south end. The service area encompasses approximately 81.8 acres and 179 EDUs on 190 properties. The Phase II expansion will include approximately 8,900 feet of new 8-inch gravity sewer, 29 manholes, approximately 8,800 feet of new force main sewer, 5 lift stations, 30 individual pumping stations, and an expansion of 48,000 gpd capacity at the existing WWTF. The estimated project cost for Phase II is \$5.5M and is planned to be constructed in 2024.