

Walnut Creek Sewer District Inflow and Infiltration Project *Fairfield County, OH*

The Walnut Creek Sewer District (WCSD) is located in Northern Fairfield County and serves the Villages of Thurston and Pleasantville. The WCSD operates and maintains a sanitary collection and treatment system serving approximately 500 customers from these Villages and the surrounding areas. The treatment plant is centrally located between the Villages on Leitnaker Road and its effluent is discharged into Walnut Creek. The collection system consists of approximately 30,000 linear feet (LF) of 8" and 10" gravity sewer, 3 pump stations, and 5 miles of sanitary force main. The collection system is heavily burdened by Inflow and Infiltration (I/I), which results in overflows at the Leitnaker Road Pump Station and inadequate treatment at the treatment plant. Therefore the Ohio EPA has placed the WCSD under Findings and Orders to reduce the amount of I/I getting into the sanitary sewer system.



GGC Engineers recently conducted an I/I analysis on the complete system to determine the location of the I/I so that it can be reduced. Smoke testing, flow monitoring, dye testing and televising were used to collect the data needed for the analysis. The OEPA has agreed to allow the WCSD to divide the I/I elimination project into three phases so that they can apply for funding on a yearly basis to limit the financial impact on the customers.

Phase I of the project will focus primarily on Pleasantville as the wet weather flows from this Village contribute to the overflows at the Leitnaker Road Pump Station. The project will consist of sanitary sewer relining, manhole rehabilitation, sanitary sewer point repairs, cross connection elimination, private source removal, and any other necessary rehabilitation as indicated by the I/I analysis.

