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Municipal Public Water Supply

INTEX was retained to perform hydrogeologic studies for the development of the public water supply for a municipal authority, Bucks County, Pennsylvania. The water supply in the borough was historically provided by individual private wells. Being relatively densely developed, there were hundreds of mostly-shallow wells serving homes and businesses, and the wells were susceptible to drought and to impact from individual on-lot septic systems and other pollution sources. Further, there was no public water supply for fire protection.

The Borough had relatively few undeveloped parcels on which to site a drinking water production well. Provided with an inventory of potential well sites, INTEX performed fracture trace analyses, and determined if sufficient wellhead protection area existed, and prioritized the sites according to the likelihood of having sufficient yield and protection.

INTEX coordinated with the Pennsylvania Department of Environmental Protection (PADEP), the Delaware River Basin Commission (DRBC), and the Bucks County Health Department (BCHD), and established a network of private wells to monitor during the drilling and testing of production wells.

INTEX supervised the drilling of four test wells, three of which were converted to production wells. INTEX performed stepped-discharge tests and 72-hour constant rate pumping tests on the wells and collected Pennsylvania New Source parameter samples for community drinking water systems. INTEX prepared the pumping test reports for submission to the PADEP and DRBC. The infrastructure for the system has since been constructed, and the system has been permitted and is in full operation.