



City of Salem Sanitary Sewer Evaluation Survey

Harrison County, West Virginia

Client: City of Salem

Contact: James R. Samples, Mayor (304) 782-1318

Key Personnel:

Jeff Petry, PE (PM)
Elliott Lewis

Project Cost:

\$96,000

Year Completed:

December 2015

E.L. Robinson's Role

Prime Consultant
Wastewater Collection System
Flow Monitoring
Wastewater Collection System
Smoke Testing
Wastewater Collection System
Analysis
Proposed Project Alternative
Evaluation

The City of Salem's Sanitary Sewer Evaluation Survey consisted of a comprehensive wastewater collection system analysis, including analysis of pumping stations, treatment plant, and gravity collection system. The survey was located within the municipal boundaries of the City of Salem in Harrison County, West Virginia.

The purpose of the survey was to produce accurate system mapping, perform a system-wide smoke testing evaluation to locate inflow and infiltration, flow monitoring, dye testing as well as closed-circuit video inspection of portions of the City's gravity collection system. As a result of the survey, the City was provided a comprehensive study detailing findings such as illegal roof drain connections, the condition of its existing gravity collection system, and cost estimates for several possible future wastewater collection and treatment system projects to remedy system defects located as a result of the survey.

As a result of the survey, the City was able to proceed with the development of a Stormwater Elimination Project to remove problematic portions of their collection system, eliminate unwanted inflow and infiltration from the collection and treatment system and upgrade a number of outdated components at its wastewater treatment facility.