

# City of Salem Sanitary Sewer Evaluation Survey

*Harrison County, West Virginia*

## CLIENT

City of Salem  
P.O. Box 352  
Salem, WV 26426  
James R. Samples, Mayor  
(304) 782-1318

## COMPLETION DATE

December 2015 (Survey)

## PROJECT COST

\$96,000

## 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*

## PROJECT MANAGER

Jeff Petry, PE

## KEY STAFF

Elliott Lewis



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system, eliminate unwanted inflow and infiltration from the collection and treatment system and upgrade a number of outdated components at its wastewater treatment facility.