



Case Study Category: CADW

Case Study Title: Use of Tethered, In-line, Acoustic Leak Detection Technology for Inspection of Large Diameter Water Transmission Pipelines by Philadelphia Water Department, Philadelphia, Pennsylvania

Utility Name: Philadelphia Water Department

Case Study Abstract: This case study discusses Philadelphia Water Department's (PWD) use of tethered, in-line acoustic technology for detection of leaks in their large diameter water transmission lines. The technology, called Sahara^{1/2}, was owned by the Pressure Pipe Inspection Company (PPIC) when implemented. PPIC is now, in turn, owned by Pure Technologies. PWD owns and maintains very old water infrastructure, and has been active in the assessment of the infrastructure's condition since the early 1900's. The City of Philadelphia (City) has found tethered, in-line acoustic leak detection technology to be particularly suited to the circumstances of Philadelphia's large diameter water transmission infrastructure. Some examples of data obtained with this technology are shown in this case study. Additional acoustic leak detection tools are currently being considered for future use in the condition assessment of the City's large diameter water pipelines.

Case Study Link: <http://waterid.org/content/use-tethered-line-acoustic-leak-detection-technology-inspection-large-diameter-water-transmi>