

How a north Texas municipality took action and implemented a cutting edge in-line inspection technology to inspect a critical raw water supply line and support efforts to conserve a dwindling natural resource, water.

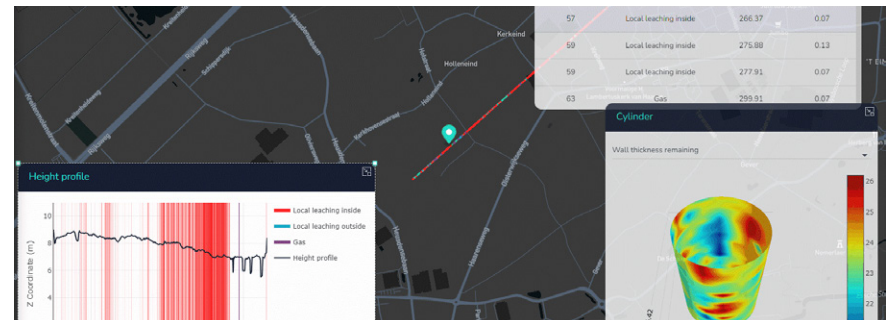
Utilizing the Acquarius multi sensor in-line inspection technology from Acquaint in the Netherlands, this was the first inspection of its type in North America.



Coupled with an on-board inertial mapping unit, odometer, sonde, ultrasound, magnetic field wave, and hydrophone the Acquarius provides joint anomalies (joint gap width, axial deformation), angular

deflection at joints, H₂S attack, remaining structural density of AC, delamination, remaining wall thickness of 1-2 layers of pipe (pipe type dependent), ovality, leaching (AC), and corrosion.

Deliverables



included shape files with sub-meter location and clock position of each detected anomaly, CSV files with all data points collected during the inspection, a report highlighting the most relevant anomalies, and an on-line dashboard.

This North Texas municipality learned that while the raw water line has some areas for further analysis, the overall condition of the pipe is good. No significant breaches to the inner core of the pipe and no serious structural concerns were detected. This information helps guide future decision making with regard to capital improvement dollars and master planning.

Water is life.

One North Texas city is sleeping better because of their proactive approach to protect a finite natural resource, and their constituents.



Trusted technologies. Innovative solutions.