



Case Study Category: CAWW

Case Study Title: Inspection of Large Diameter Corrugated Metal Storm Sewer Pipelines with CCTV, 3D Laser Technology, and Gas Sensors by Aurora Water in Aurora, Colorado

Utility Name: Aurora Water

Case Study Abstract: The City of Aurora, Colorado, hired ICON Engineering, Inc. to manage a pipeline inspection of corrugated metal storm sewer in 2007. The first phase consisted of an inspection using a subcontractor, RedZone Robotic Services, to document internal pipeline conditions with digital fiber-optic closed circuit television, laser scans, and measurements of hydrogen sulfide gas. The inspection results were combined with additional non-destructive testing techniques and a hydrologic analysis. Recommendations for renewal of the pipelines were also given. While the work in this case study is applied to stormwater pipelines, the technologies used are also applicable to gravity sanitary sewer pipelines.

Case Study Link: <http://waterid.org/content/inspection-large-diameter-corrugated-metal-storm-sewer-pipelines-cctv-3d-laser-technology-an>