Overview

PICA provides the water and wastewater industry high-resolution direct condition assessment services with Remote Field Testing (RFT) Technology. PICA employs custom built ILI tools that can inspect metallic pipes ranging from 3” to 78”.

Condition analysis services provides asset managers with:

- High resolution pipe wall thickness measurements, detecting internal and external areas of wall loss, graphitic corrosion, cracks or local stress concentrators (e.g. dents) in metal pipes.
- Identification of potential critical failure locations
- XYZ mapping (Accelerometer based)
- Location of construction features
  - (valves, fittings and pipe lengths)
- Pipe condition baseline surveys

Assessing the condition of a pipeline allows for asset managers to employ Proactive Point Repair (Targeted Maintenance), extending the service life of a pipeline and avoiding the high costs associated with full replacement.

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In early 2017, the RAFT tool completed a five-mile (8 km) inspection of a 36-inch bar-wrapped concrete cylinder pipeline that carries millions of gallons of water per day to a water treatment plant. Installed in the late 1940’s, the feeder main is a critical part of the local water system and asset managers wanted to perform a detailed, non-destructive condition assessment. The inspection identified several areas of thinning of the steel cylinder, which if left untreated would have resulted in serious pipeline failures in the near term. Some of these areas were verified by removal of the internal concrete liner which surprisingly showed no sign of distress.

3” to 16” Diameter Pipelines: Tools are deployed in free-swimming or tethered mode; can maneuver through elbows and minor bore restrictions.

18” to 36” Diameter Pipelines: Tools generally deployed in tethered mode; can navigate through pipe ovality and shop bends.

36” to 78” Diameter Pipelines: Custom designed tools expand and collapse for easy insertion and extraction through standard manholes. Assess large diameter Concrete Mortar Lined & Coated (CML&C) Steel pipes and Bar-Wrapped Steel Cylinder Concrete Pressure Pipe (AWWA C303).

Ancillary Services PICA provides include:

- Acoustic screening and more with Recon+™
- Laser Profilometry
- External condition assessment with the Bracelet Probe™

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