

# **2016 TEEA Winner Innovative Operations: City of Fort Worth Water Department**

## **Mark Shell, IT Business Systems Coordinator**

There are approximately 1.4 million feet of large sanitary sewer pipes in Fort Worth.

## **Travis Andrews, Assistant Water Director**

All of these pipes are at some point, going to fail. By being proactive, and being able to use advanced technology to predict where the failures will occur, we can take care of them and avoid catastrophe. Our interceptor condition assessment program was developed several years ago and implemented in fiscal year 2011.

## **Rod Thornhill, P.E., Project Manager, ICAP Project**

In the past the only way they know the pipe has failed is when it actually collapses.

## **Mark Shell, IT Business Systems Coordinator**

The ICAP program has allowed us to identify, not just entire segments that are bad, but to go after the footage within a segment that is failing.

## **Rod Thornhill, P.E., Project Manager, ICAP Project**

This is the pontoon where we get the three types of data we collect. Laser, high-def TV and sonar.

## **Mark Shell, IT Business Systems Coordinator**

This exercise of ICAP, it has brought together engineering and field operations, it's brought together our consultants. Everyone had to get together and get every piece of information in one spot and put it all on the table at once.

## **Mazen Kawasmi, P.E., Assistant Manager, ICAP Project**

Traditionally it would take ten years to inspect the entire system for the City of Fort Worth. We're able to do that in six years with the new ICAP program.

## **Rod Thornhill, P.E., Project Manager, ICAP Project**

To date, we've saved about six million dollars in emergency repairs.

## **Mark Shell, IT Business Systems Coordinator**

By targeting our resources we're able to do more strategic repairs which will decrease the number of catastrophic events. It'll have less disruptions on streets, on rivers, by doing the plan work instead of dealing with it when it becomes a disaster.