UPPER CONDUIT SLIPLINE PROJECT

The Upper Conduit in Salt Lake City is a critical water transmission pipeline constructed utilising various types of concrete pipes, including prestressed concrete cylinder pipe (PCCP), reinforced concrete cylinder pipe (RCCP) and steel cylinder concrete pipe (SCCP).

Project Challenges

In January 2020, the City contracted with Insituform Technologies, LLC (ITL) to install a pressure-rated cured-in-place pipe (CIPP) liner in approximately 560 linear feet of the 48-inch PCCP conduit. The City had previous experience with CIPP and selected this specified rehabilitation method because of an overall desire to maintain the maximum inner diameter of the existing pipeline.

The Solution

In late April 2020, ITL successfully completed the lining and pressure testing of the new InsituMain® liner, allowing the City to put the pipeline back in service in time to meet increasing springtime water demands.

Pipeline Details and Project Summary

Project: Upper Conduit Slipline Project
Location: Salt Lake City, Utah
Project Dates (start to finish): 2020
Pipe Length: 11,000 feet
Pipe Diameter: 48-inch Existing Pipe
Material: PCCP
Type of CIPP used for Rehab: Pressure with epoxy resin
Installation Method: Inversion
Longest Pull: 560-foot average shot length
Pressure Rating: 60 psi
Owner: Salt Lake City Corporation
Engineer: J-U-B Engineers
Affiliated Contractors: Cliff Johnson Excavating and Insituform Technologies, LLC

Feedback

“We have used cured-in-place pipe lining on gravity sewer projects with great success. This was a primary reason for selecting CIPP to rehabilitate this section of potable waterline. Insituform worked closely with us through installation challenges for a successful project.”

– Dawn Wagner, PE Water Program CIP Manager, Salt Lake City Corporation