



**Case Study Category:** REWW

**Case Study Title:** Rehabilitation Options for Lined Concrete Sewer Pipes in Phoenix, AZ

**Utility Name:** City of Phoenix - Water Services Department

**Case Study Abstract:** The City of Phoenix, AZ has developed a successful program to assess the condition of the polyvinyl chloride (PVC) lined concrete pipes in their sewer system. The assessment results are then used to make recommendations for renewal of the pipelines based on the severity of the defects and prioritize the renewal projects. This case study focuses on the recommended alternatives for repair and rehabilitation of the pipelines, and discusses the technologies that the City of Phoenix has chosen to use. The primary technologies discussed are non-mechanical point repair technologies, but the City has also used cured in place pipe (CIPP) liners to rehabilitate segments with several defects in the existing lining. The case study provides an overview of the utility itself, background on each of the technologies included in recommendations for repair or rehabilitation, a summary of condition assessment results, details about installation of the technologies chosen for implementation, and a brief summary of technology benefits and limitations.

**Case Study Link:** <http://www.waterid.org/content/rehabilitation-options-lined-concrete-sewer-pipes-phoenix-az>