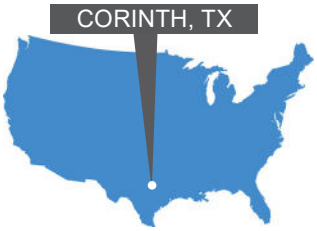
USG WATER SOLUTIONS

Extending the Life of Asbestos Cement Water Mains



Project Summary

Customer:

City of Corinth, TX

Type of Project:

Spray-In-Place Pipe Rehabilitation

Scope:

6.6 miles of 12-inch asbestos cement mains

Benefits at a Glance:

- Demonstrated cost-effective rehabilitation of AC pipe
- Avoided asbestos handling and safety risks
- Established staged plan for full system rehabilitation
- Aligned with community growth and sustainability goals

How Corinth, TX rehabilitated water mains with trenchless technology

Across the United States, utilities are grappling with the challenge of aging water infrastructure, particularly asbestos cement (AC) pipe installed during mid-to-late 20th century. For many communities, decisions around replacing or rehabilitating these assets raise difficult questions about cost, safety, and service disruption.

The City of Corinth, Texas—a fast growing suburb in the Dallas–Fort Worth metroplex — was no exception. With 6.6 miles of 12-inch AC water mains nearing the end of their service life, the city needed a practical, safe, and affordable solution to protect system reliability without creating major disturbances for its residents.

The Challenge

- **Cost Barriers**: Traditional replacement methods requiring open-trench construction were expensive and highly disruptive.
- **Limited Alternatives**: Pipe bursting, another trenchless option, was evaluated but proved cost prohibitive.
- **Safety Concerns**: Direct handling of asbestos introduced significant regulatory and health challenges.

> *"We were exploring services to rehabilitate or replace 800 linear feet of 12-inch asbestos cement water pipe, but with limited funding and a lack of interest from service companies, it was starting to feel like we would never complete our project without significantly increasing our budget."*
>
> — Rusty Guzman, Utilities Manager, City of Corinth

"USG Water Solutions' SIPP approach was not only cost-effective but also allowed us to double the amount of linear feet rehabilitated while remaining within our budget."

— Rusty Guzman, Utilities Manager, City of Corinth

The Solution: Spray-In-Place-Pipe (SIPP) Rehabilitation

To address these obstacles, the city needed an alternative that could extend the life of their assets, stay within budget constraints, and minimize disruption for residents. They partnered with USG Water Solutions to pilot Spray-In-Place Pipe (SIPP) rehabilitation technology. SIPP applies a durable epoxy lining to the interior of existing mains, restoring structural integrity while extending service life – without removing or disturbing the asbestos pipe.

USG Water's experienced crew completed two demonstration runs of 800-1,000 feet each, validating SIPP as a safe and cost-effective method that:

- **Restored** the AC mains without exposing crews or the community to asbestos.
- **Reduced** overall project costs compared to replacement.
- **Minimized** service disruptions for residents.

The success of these demonstrations has positioned Corinth to stage USG Water's SIPP rehabilitation across the remainder of its AC system. This approach not only delivers substantial cost savings but also aligns with the community's commitment to growth and sustainability.

The Results

The pilot proved highly successful and positioned Corinth to move forward with a staged plan to rehabilitate the remaining 6.6 miles of AC mains using SIPP. By adopting this approach, the city is ensuring:

- **Extended Asset Life** – Critical water mains reinforced for decades of additional service.
- **Substantial Cost Savings** – More budget flexibility for future infrastructure needs
- **Community Confidence** – Safer, sustainable water delivery with minimal disruption

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Contact Us Today!

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