



CASE STUDY:

COLORADO MANHOLE REHABILITATION

CLIENT

Colorado Municipality

PROBLEM

A local municipality faced significant inflow and infiltration issues and concrete deterioration within a series of aging manholes across their sewer district.

RESULTS

QP Services effectively implemented SprayWall, a long-lasting solution that restored structural integrity, eliminated infiltration, and extended the service life of the critical manhole assets.

A local municipality faced significant inflow and infiltration (I&I) issues and concrete deterioration within a series of aging manholes across their sewer district. As part of their proactive infrastructure maintenance program, they continuously invest in solutions that extend the service life of critical assets while minimizing disruption to the community. To address the problem, the municipality sought a proven, long-lasting rehabilitation method that could restore structural integrity, eliminate infiltration, and reduce future maintenance costs.

SOLUTION

Over time, previous lining systems in the manholes had failed, allowing infiltration and deterioration to compromise structural stability. Traditional dig-and-replace rehabilitation was considered, but this approach would require extensive excavation, high costs, prolonged timelines, and significant disruption to residents and businesses.

The municipality needed a cost-effective, trenchless solution that could meet three priorities:

1. Stop infiltration and restore structural strength.
2. Minimize public disruption and traffic control.
3. Deliver long-term durability with proven performance.

RESULTS

The project was awarded to QP Services, a trusted Sprayroq Certified Partner, through a competitive bid process. Backed by more than a decade of successful work with Sprayroq products for this municipality, QP Services had established a strong reputation for reliability, consistent quality, and the ability to deliver on complex rehabilitation projects. Key steps included removing failed liner materials, repairing infiltration points, and applying 250 mils of SprayWall, Sprayroq's high-strength structural polyurethane lining system, to each manhole.

SprayWall was chosen over dig-and-replace because it offered:

- Structural strength to extend service life.
- No need for heavy excavation or long-term bypassing.
- Faster project completion with minimal community disruption.
- A cost-effective solution that outperformed traditional methods.

CONCLUSION

By choosing SprayWall, the municipality achieved:

- 40% cost savings compared to traditional replacement.
- Reduced project timelines, restoring manholes to service much faster.
- Minimal disruption to nearby residents and businesses due to the trenchless application.
- Long-term protection, with SprayWall's monolithic, corrosion-resistant lining.

SprayWall provided this municipality with a cost-effective, long-lasting solution that restored structural integrity, eliminated infiltration, and extended the service life of critical manhole assets—all while saving money and minimizing disruption.

