

CASE STUDY

48" Pipe Refurbishment

Water & Wastewater

Project Data

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| Completion Date | February 2026 |
| Products Used | Resichem 501 , Resimac 301 , 302 , 701 , 703 , 704 & Universal Cleaner |
| Substrate | Ductile Iron |

Problem

The client identified severe corrosion on a 48" ductile iron pipe caused by H₂S exposure.

Given that the plant was built in 1956 and the pipe is located in the basement, replacing it would be both complex and costly. To avoid the risk of a rupture, they opted not to pursue full pipe replacement and instead repair the pipe.



Solution

The first step was to properly prepare the surface by removing any loose debris. Next the area was cleaned with USI Universal Cleaner.

The severe corrosion and wall loss were rebuilt using Resimac 301 and 302 to restore the pipe profile. Resimac 701, 703, and 704 were then applied to provide structural reinforcement and contain pressure. The final step was applying ResiChem 501 for long-term corrosion protection. This system restores strength, isolates corrosion, and extends the service life of the pipe.

