



# Case Study: Large Diameter

## Large scale water pipeline - LineBacker®

### PROBLEM

A water authority situated in Texas approached GPT industries to support a large-scale project with the aim of shifting underground well water to surface water. The project which spans 79.8 miles of pipeline, was mandated with reducing groundwater reduction to 60% surface water by 2025, and 80% by 2035.

Eliminating leakage and ensuring long term efficiency of the pipeline was of paramount importance if they wanted to meet the targets laid out. Flange connections were identified as key consideration due to the potential risks posed from leakage and corrosion.

### SIGNIFICANCE

The contractor tasked with the pipeline connections was also aware of the potential issues with sealing (including ingress) and flange corrosion, having encountered the same issues on previous projects. Experience also taught them these types of issues are only amplified when the pipeline size increases, this was of particular concern given that in most places the diameter of the pipeline is 120".

A "near zero leakage" solution previously utilized would simply not do. For this project they required an isolation kit that they would feel 100% confident with, they required a "zero leakage" solution. In addition, all components within the pipeline had to conform to the NSF 61 requirements.

Bringing the project in on time was another consideration that could not be overlooked. Due to the scale of the project, coordination with different suppliers and contracts was essential for meeting project timeline goals and budgets.

### OPERATING CONDITIONS

Temperature:	Ambient
Pressure:	75 PSI
Media:	Potable Water (NSF)
Size:	Multiple sizes ranging from 4" - 120"



### SOLUTION

After careful consideration, the client identified the LineBacker® Isolation Kit as the only viable option to meet the stringent requirements. The Linebacker isolation kit had the assurances and pedigree the project was seeking, while also adhering to the NSF 61 requirements. Due to the superior manufacturing processes and techniques employed, the Linebacker isolation gasket provided a "zero leakage" solution.

GPT worked in close consultation with the client to deliver product in the timeliest manner to ensure the smooth running of the project.

For more information, please visit: <http://www.gptindustries.com>



4990 Iris Street  
Wheat Ridge, CO 80033  
Tel: (303) 988-1242  
Fax: (303) 988-1922