

# SYLWRAP Case Study



## Pumping House 150mm Elbow Live Leak Repair

A water company in Malaysia make a live leak repair to a 150mm steel elbow under 6 bar pressure in a pumping station after a pinhole leak developed



*A jet of water was escaping the elbow at 6 bar from a pinhole leak caused by corrosion*

### Defect

Corrosion had weakened the elbow where two sections of metalwork met, creating a pinhole. Water was jetting out of the leak at 6 bar pressure.

A pipe repair clamp could not be fitted around the elbow, and the pipe could not be taken out of operation for repair or replacement because of its importance to systems at the pumping house.



*Wrap & Seal was stretched by 300 percent, fusing to form a solid silicone band over the pinhole*

### Solution

**Wrap & Seal Pipe Burst Tape** was applied to seal the leak. The Tape was stretched by the maximum 300 percent and fused to form a solid silicone band over the pinhole, withstanding the 6 bar pressure.

The repair was then reinforced with a **SylWrap HD Pipe Repair Bandage**. The Bandage was wrapped and smoothed around the pipe whilst water was poured over it, curing to provide an impact resistant protective sleeve around the elbow.

Both products have WRAS approval, meaning they are safe to use with drinking water.



*SylWrap HD reinforced the initial repair, smoothed around the pipe to create a protective sleeve*

### Result

Completing the repair took less than 30 minutes with no interruptions to the pumping house.

As a result of this and other successful applications in Malaysia, the national supplier has approved the **Pipe Repair Contractor Case** for leak repair on Kuala Lumpur's vast pipe network.

Each Case contains enough products to make up to 6 live leak repairs. Maintenance teams are equipped with a Case, enabling them to fix leaks and bursts as soon as they are identified.



*The repair of the elbow was completed in under 30 minutes with no disruption to the pumping station*

