

# SYLWRAP Case Study

## Live Leak Pipe Repairs on Libya Water Network

Above and below ground water pipes servicing a town in Libya undergo live leak repair to seal cracks through which high levels of water were escaping



*Significant levels of water were escaping the above-ground section of pipe at 5 bar pressure from a longitudinal split*

### Defect

The 100mm pipes were part of the network supplying water to the town of Brega, operating at 5 bar.

An underground section was first identified as leaking through visible signs in earth surrounding the pipe. This leak was initially ignored because a repair or replacement was considered too difficult.

When a longitudinal split then developed in an above-ground pipe, a blind eye could no longer be turned to problems on the network. It was decided to find a way to repair both pipes.



*The above-ground section was successfully sealed using Wrap & Seal and then further protected with SylWrap Pipe Repair Bandage*

### Solution

The importance of the network meant pressure could not be isolated, so live leak repairs were made.

For the above-ground pipe, **Wrap & Seal Pipe Burst Tape** was wrapped along the length of the split.

Multiple Tapes were applied over each other until no water was leaking, indicating the repair had reached 5 bar pressure resistance. A **SylWrap Pipe Repair Bandage** was then applied to protect the Tape.



*A trench was dug with enough clearance to reach the below-ground section of pipe. It was then repaired using Wrap & Seal and SylWrap Bandage*

A trench was dug to reach the below-ground section with enough clearance to wrap both Wrap & Seal and SylWrap around the pipe. The small crack in the pipe was easily arrested.

### Result

Each repair took under 30 minutes to complete with no disruption to homes and businesses in Brega.

In a dry country like Libya where every drop of water is precious, the speed with which a **SylWrap Pipe Repair Kit** seals leaks can make a huge difference.