REHABILITATION OF PRESSURE PIPELINE

THE FUTURE – DELIVERED

Overview

Our client was confronted with a large section of a foul rising main which was repeatedly bursting and leaking.

This caused a high pollution risk as well as each burst resulting in emergency road closures, on one of only two main access roads for the town, to carry out repairs.

Following the most recent burst continuous over pumping had been installed whilst a permanent solution was agreed.

Our solution was to carry out rehabilitation on the existing pipe using Primus Line. Primus Line is a flexible Kevlar reinforced high pressure liner that is manufactured in Germany with specially developed connectors covering pipe diameters from DN150 to DN500.

It was selected due to its high operating pressure (18 bar), low k-factor, thin wall thickness and ability to go round bends.

After further consultations with the client PSS realised that we had to act quickly and our specialist No-Dig department was engaged to provide a method and lining programme, including the procurement of materials and allocation of resources to carry out the activity.

Delivery

Our in-house civils efficiently excavated the launch pit and receiving pit, 450mtrs apart, to facilitate the installation.

Once we had safe access we prepared and cleaned the 200mm Ductile pipe to receive the liner using specialist scraping and cleaning equipment.

After we had checked it was cleaned to our satisfaction we were able to install the 450m of liner including the connectors within a single day.

The line was then pressure tested prior to being returned to service.

Outcome

The whole project from start to finish was completed within a few days as opposed to several weeks if a traditional open cut method had been used.

This resulted in the following benefits being passed on to the client and other stakeholders:

- Reduced impact to local communities, commercial businesses and transport.
- Reduced noise and traffic disturbance to residents.
- Reduced carbon footprint most trenchless techniques result in at least 50% reduction in the carbon footprint.
- Substantial cost saving to client.
- Minimal environmental impact.
- Substantial Health and safety benefits.
- Extended the life of the existing asset by 80 years.

PSS was able to deliver this project professionally, punctually and without any incidents proving once again why it's the contractor of choice for a growing clientel