

INNOVATIVE SOLUTIONS FOR CHALLENGING RENEWALS

Infrastructure renewal specialist Interflow is no stranger to finding innovative trenchless solutions for underground asset rehabilitation. The company has recently provided two solutions – one using spiral wound liner and the other using UV cured CIPP – for Melbourne Water’s Brighton Main Sewer Upgrade.

When it comes to pipeline renewal, there is no single method that suits all situations. Industry experts know that the most effective solution is obtained by matching the method with the specific needs of the client.

For Interflow, an Australian leader in infrastructure renewals, this is just part of the operational philosophy it’s using for its client, John Holland–KBR Joint Venture (JV), which is managing Melbourne Water’s Brighton Main Sewer Upgrade project.

The Brighton Main Sewer is one of the most significant sewers in Melbourne’s 400 km sewer network. Running under Beach Road southeast of the city, it has been servicing the Brighton and Hampton areas since 1907; however, Melbourne Water’s inspections of the asset identified that it needed renewal.

UPGRADING THE MAIN

Together with the John Holland–KBR JV, Interflow is working on a 4.5 km section of the Brighton Main Sewer on behalf of Melbourne Water. The sewer comprises a range of sizes of pipe and cross-sectional shapes.

About 1.1 km of the sewer for rehabilitation is circular with a nominal diameter of 600 mm. The remaining 3.4 km of sewer is an ovoid shape with dimensions ranging from 1,050 mm by 675 mm to 1,200 mm by 825 mm.

The circular sections are being lined with Interflow’s proprietary SPR™ EX-Expanda pipe spiral wound PVC liners and the ovoid sections lined with Interline™ UV, which is a fibreglass UV cured-in-place pipe (CIPP) liner.

The fibreglass liner is especially strong, meaning that a relatively thin wall will be all that is needed to meet structural requirements.



Interflow manages local traffic as rehabilitation takes place.



Operations taking place in Hobsons Bay.

“The ovoid section is the largest Interline UV project Interflow has carried out to date,” says Interflow General Manager Victoria, South Australia and Tasmania Robert McEwen.

Melbourne Water identified the benefit of pursuing rehabilitation via relining instead of open trench to minimise the impact on the community and offer the best value for money solution.

The renewal of the sewer is being carried out without the need for any excavation. The Expanda pipe liner can be installed in live flow conditions, while full sewer bypass pumping has been operated for the Interline UV installation.

In addition to the sewer relining, the project involves the rehabilitation of 43 maintenance holes along the route of the sewer. Interflow is restoring these maintenance holes and applying a corrosion resistant coating of Interchem™ calcium aluminate cement.

SOLUTIONS

Well-known as a provider of high-quality and cost-effective repair, restoration and renewal solutions for deteriorated underground pipelines and related assets, Interflow prides itself on finding the right solution for each respective scenario.

In addition to providing pipe renewal

products, the company also offers its clients an extensive range of pipeline renewal services, such as investigation, condition assessment, civil works and trenchless rehabilitation technologies, earning Interflow a reputation as a total solutions provider.

“Our long-term standing in the industry, along with our robust systems, planning and meticulous safety record, means that we are well-educated to the various challenges associated with asset rehabilitation,” says Interflow Business Development Manager Victoria Scott Jordan-Legg.

“We work with our clients to develop a solution that is customised to their requirements, taking into account factors like asset condition, asset location and operating flow rates.”

These services extend across the full asset

management lifecycle processes, which include design, construct, condition monitoring, preventative and reactive maintenance.

TRUSTED PROVIDER

Interflow knows that effective stakeholder management is crucial to the success of a project and delivering the best outcomes for its clients. In a project such as a sewer renewal, the company works with its clients so that all parties have a mutual understanding of what is to be delivered and how.

“Clear communication with clients and stakeholders ensures risks are mitigated, the impact on the community is minimised and the quality of workmanship is not compromised,” says Mr Jordan-Legg.

“We don’t rush delivery of a project as that could impact the life of the asset, customers and risk the safety of our team and those around us; however, our thorough approach to planning and developing the solution with the client means that jobs are completed on or ahead of schedule, limit customer impacts and are undertaken safely.”

Interflow’s more than 80-year history in the asset management space ensures it has an intimate understanding of what its clients need.

“We work closely with our clients to identify and deliver the best solution while providing the best value for money,” says Mr Jordan-Legg.

“Works are completed according to the client’s specification and according to plan, ensuring a positive result for all.” **T**

ABOUT INTERFLOW

Interflow is an Australian-owned company founded in 1936. It services major water authorities and local and regional councils across Australia and New Zealand. Interflow operates as an infrastructure renewal delivery partner, working in collaboration with its customers, offering early contract involvement, design/construct management, a life-cycle approach to investigation and rehabilitation, construction services including Trenchless Technology and reactive and proactive maintenance services in the potable water, wastewater, stormwater, rail and road sectors.

For more information visit www.interflow.com.au



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