

International Award for Sydney sewer lining project



For the second time in three years, Interflow has won the International Society for Trenchless Technology's Rehabilitation Project of the Year Award.

EVERY YEAR THE International Society for Trenchless Technology presents its No-Dig Awards in a range of categories. Entries come from all over the world and across all areas of Trenchless Technology.

In 2010, Interflow first won the ISTT Rehabilitation Project of the Year Award for a major sewer lining project for Sydney Water. Recently, Interflow was again announced the winner of this prestigious award, and again, it was for a sewer lining project completed for Sydney Water.

The rehabilitation of sections of the Lidcombe, Auburn and Granville sewer mains was one of the most complex and challenging pipeline rehabilitation projects in Interflow's history.

This project involved lining some 1.2 km of deteriorated 900 mm diameter

reinforced concrete pipe up to 22 m deep. The pipeline carried high flows and its importance meant that it had to remain in full service at all times during the works. Furthermore, it was located in a difficult location near the intersection of a major arterial road with major gas pipelines running alongside. The work method also had to allow for the possibility of full return to service of the pipeline in less than three hours.

Interflow completed the project using their Expanda pipe and Rotaloc spiral wound liners, but needed to incorporate some new developments to extend the capabilities of both these lining systems.

These developments included:

- A stiffer Expanda pipe strip for use at larger diameters

- A more powerful liner winding machine
- Robotics for expanding the liner in the pipeline
- A profile strip for installing Rotaloc continuously around bends
- A grout formulation that has greater fluidity but no bleed, separation or shrinkage.

Additionally, completing the project while maintaining full sewer service required the construction of a complex bypass system. This included a large pump-out pit, due to the 20 m depth of the pipeline.

The project was judged by the ISTT as best meeting the award criteria of contributing to the advancement of Trenchless Technology worldwide, while protecting the environment and reducing social costs. [1](#)

Interflow would like to thank the key contributors to the success of this project: The Interflow project team, and all personnel who contributed directly and indirectly Sydney Water for providing the opportunity and for their cooperation throughout the project Sekisui Rib Loc for their assistance with the new developments.