

Upper Blue Mountains Priority Sewerage Scheme Amplification



Directors Message



"ITS PipeTech deliver cost effective, high quality, low risk solutions for all pipeline and culvert rehabilitation, extending the life of existing assets and infrastructure utilising environmentally responsible processes and methodologies".

Better Smarter Outcomes

Project Details



Client: Sydney Water Corporation (Priority Sewerage Program Alliance)

Project: Amplification of sewer network within Blackheath as part of Sydney Water's Priority Sewerage Program for the Upper Blue Mountains

This project involved the upsizing of the existing sewer network within the community of Blackheath using pipe bursting techniques. The objective of the project was to replace the sewer lines with upsized pipes to alleviate flow problems as a result of the increasing population and sub division within the area.

ITS PipeTech has been providing pipebursting for the trenchless renewal of water, sewer, stormwater and industrial pipelines in Australia for over 18 years. Pipebursting is one of the few trenchless technologies that provides a completely new pipe without being influenced by host pipe conditions. Pipebursting typically includes renewal of all services and connections, ensuring a service life consistent with a new pipe installation upon completion. One of the advantages of pipebursting is the ability to upsize the host pipe. The degree of upsize is primarily limited by surrounding soil conditions, depth and proximity of other services. Besides Sydney Water, recent work has been performed for a number of other clients including: Wagga Wagga City Council, Townsville City Council, Toowoomba Council and Wingecarribee Shire Council.

Sydney Water's Upper Blue Mountains Sewerage Scheme will provide an improved sewerage service to the urban areas of Mount Victoria, Blackheath and Medlow Bath. Benefits of the scheme include an improvement to water quality in local creeks and streams and a reduced risk to public health from poorly performing septic tanks. As part of the overall project, new pipes will be installed and some existing sewage pipes in Blackheath will be amplified to ensure system capacity into the future. One of the key considerations when Sydney Water was deciding on the preferred technology for the upsizing was the environmentally sensitive area where work was to be undertaken. ITS was awarded the project in February 2008 based on key assessment criteria of experience, technical expertise and methodology.

This project involved the upsize replacement of two sections of the sewer main in an area of bushland in Blackheath earmarked for a new housing subdivision. A track had to be cut on the side of a hill in order to undertake the construction work so a number of environmental safeguards had to be put in place. Using a pneumatic pipebursting approach with a 10 tonne winch providing both the constant tension as well as guiding the pipebursting tool, the two sections were upsized from 150mm to 225mm and 225mm to 300mm respectively. The construction of a man-hole was also required. Besides the environmental sensitivities, care also needed to be taken with the local community given we were working in backyards reinstating a number of service connections. The new pipeline was constructed of HDPE pipe and service connections were HDPE electro-fusion saddles, with back to boundary service connections laid in PVC.

This project was an excellent example of how pipebursting provided an improved pipeline capacity without having to completely excavate the pipe route. ITS PipeTech routinely provides upsizing projects for various water authorities and developers. Our experience and expertise in scoping and delivering projects of this nature are demonstrated by the quality project outcomes we achieve.



CONTACTS

www.itspipetech.com.au

NSW and Head Office:

1/13 Stanton Road, Seven Hills NSW 2147

Postal Address:

PO Box 318 Seven Hills NSW 1730

Telephone: (02) 8603 2000

Fax: (02) 8603 2001

Email: enquiries@itspipetech.com.au

Queensland Office:

2/49 Links Ave , Eagle Farm , QLD 4009

Postal Address:

PO Box 173 , Pinkenba , QLD 4008

Telephone: (07) 3630 2333

Fax: (07) 3630 2111

Email: enquiries@itspipetech.com.au

WA Office:

2/6 Dellamarta Rd, Wangara WA 6065

Telephone: (08) 9408 1648

Fax: (08) 9408 0332

Email: enquiries@itspipetech.com.au