

the Contractors

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New technological advances that our industry has undergone in the last year, has dramatically increased the accuracy and capacity of gravity installations.

Our most recent projects include laying concrete lined steel pipes at 0.2% grade, drilling and intercepting with **precision accuracy a 28m deep MH** casing for de-watering of a large fill embankment and the installation of a gravity line to make **redundant the TuiVale pump station.**

TuiVale Pump station Sewer Diversion

The TuiVale project involved drilling through a hill and installing to grade a 250mm \varnothing sewer, 383m continuous length. This project was located in the suburb of Howick, Auckland and was to make redundant the 30-year-old TuiVale sewer pump station. The ground mainly consisted of compressed sand stone with the maximum depth of the new sewer 28m down.



TuiVale pump Station (behind hill)
383m distance

Max depth 28m

Launch area

383m of HDPE pipe welded & de-beaded.
(Ready for installation)

Note-160m of pipeline
not captured in photo.

October 2000

ery difficult terrain and under several houses. Smythe d pegs along the alignment. Due to the depth and onde” was employed. This sonde is powered by the oviding extra power, enabling the sonde to be located to a depth of 60+meters and also gives the sonde continuous power over the 6 days it took to drill the pilot hole.

The HDPE pipe was welded, internally de-beaded and tested in its entire length before installation. The site was close to Cockle bay and the pipe was welded along the foreshore. A CCTV of every de-bead was undertaken progressively, enabling the operator to view his work on an individual weld basis and re-do if necessary. As part of Smythe Contractors quality assurance the pipe de-beading photos were forwarded to the Engineer on a floppy disc before the installation of the pipe.



Bore path software was employed to plan this bore to calculate drilling fluid volumes, rod numbers, line, pitch and depths. This coupled with our D50x100 drill and rock drilling capacity, completed this undertaking successfully.



Pipe Rehabilitation

Smythe Contractors have undertaken several Slip lining and pipe bursting projects. This photo taken in the main Street of Hastings shows the launching of a 450mmØ HDPE pipe into an existing decayed brick sewer. Slip lining and pipe bursting offers increased flexibility were existing services exist but are in bad condition.

Once again Smythe Contractors set new standards in the directional drilling industry. If you require technical advice for your up and coming project please feel free to talk with us.

Further Information

Further information on our services can be obtained by contacting:

Smythe Contractors
PO Box 158
CAMBRIDGE

PH: (07) 827-5925
Fax: (07) 827 5197

Email: nodignv@xtra.co.nz



Mike Smythe
Company Manager



Neil Vanner
Contracts Engineer