

PEZZIMENTI TUNNELBORE



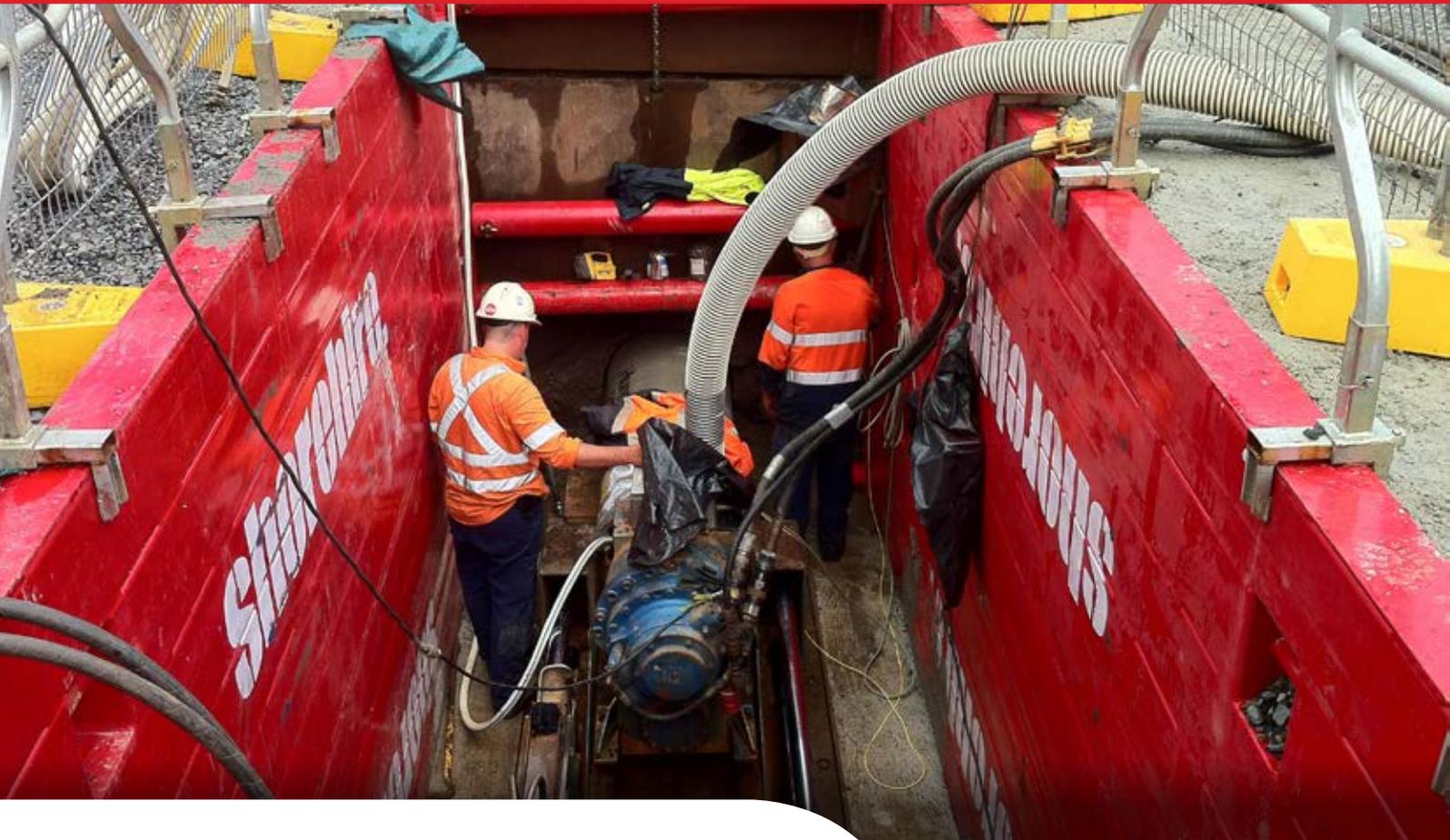
Specialising in: **Highly Accurate, Laser-Guided Microtunnels.**

Rooty Hill



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Holcim Australia are constructing a large manufacturing facility at Rooty Hill adjacent to their pipe manufacturing works. The High Voltage power feed to the new facility required an Under Rail Line Crossing (ULX) under the Great Western Railway line at Rooty Hill.

Length
59m

Bore Diameter
Ø700mm

Jacking Pipe
Ø500mm RCJP (S-Series)

Ground
Saturated, High Plasticity Clay

Grade
0.80%

+ Microtunneling Under Main Western Railway

The ULX was required to be 59m long. A Ø700mm diameter microtunnel for was required to install a Ø500mm Humes (Holcim) S-Series RC jacking pipe. Railcorp required the works to be carried out during a weekend rail shutdown in conjunction with scheduled railway maintenance. The ground was saturated high plasticity clay.

Rooty Hill

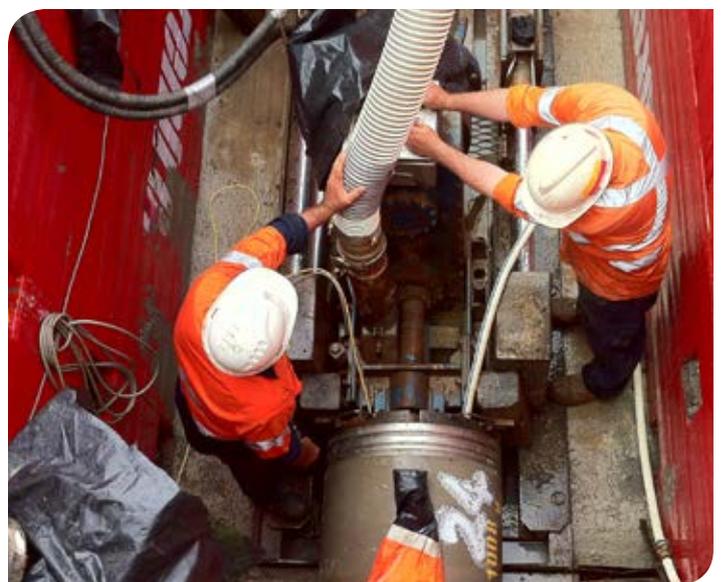


The rail shutdown was scheduled from midnight Friday until midnight Sunday. It was planned to microtunnel the first 16m prior to the shutdown. The remaining 43 m would be microtunnelled (with 2 crews working consecutive 12 hour shifts) and the annular space between the pipes and the microtunnel grouted during the shutdown.

Wade Engineering excavated the shaft and the jacking frame was established in the days prior to the weekend. The first 16m was microtunnelled by the end of the Friday.

Railcorp delayed the start of the shutdown until 5am Saturday morning. Microtunnelling commenced in torrential rain. Progress was good and the drilling completed by the 2nd crew at 4pm on the Saturday afternoon. The head was disconnected and the rods removed. The annular gap was grouted on Sunday 24th. Amid the continuing heavy rain over the next few days the conduits were pushed and the grout around the conduits was poured.

The Surveyor observed zero settlement of the rails.



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