

PEZZIMENTI TUNNELBORE



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

Kellyville

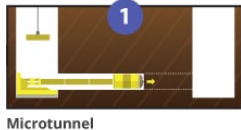


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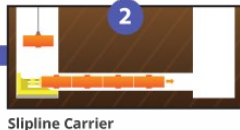
WEBSITE | www.pezzimenti.com.au

METHOD FOR THE 176M BORE

Freebore in Self-Supporting Ground.



Microtunnel



Slipline Carrier

OUTCOME

Free Pipe



LENGTH

176m
40m



DIAMETERS

Ø1650



GROUND

Shale



CARRIER PIPES

Ø1350
Concrete



OUTER CASING

N/A



The North West Rail Link is a new rail line connecting Sydney's North Western suburbs to the Chatswood Line. The eastern section of the line travels underground. It comes to the surface at Kellyville. A low point of the underground section at Kellyville required a DN1350mm stormwater line to drain one section.

As it was not possible to dig in that area, a microtunnel was designed to hit the low point and complete the drainage. The microtunnel was 176m long and 1650mm in diameter. The self supporting ground enabled a freebore so that the head could be retracted from a dead end and / or if a problem occurred.

A custom made head for the 1650mm diameter was developed.

Client / Head Contractor

Diona

Designer: Warren Smith & Partners

Location

Sydney University

Length

221m Total
201m + 20m microtunnels

Categories

Intercept Bore
Sewer

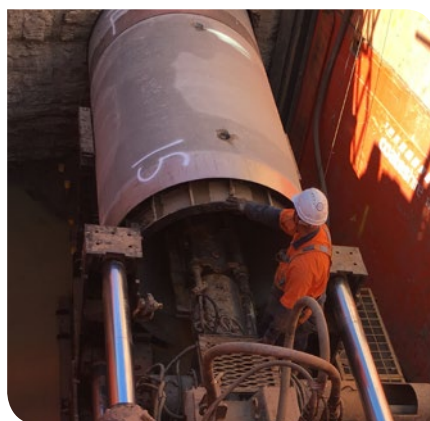


Project Details

There was a problem of dust inside the bore. This was overcome by installing a curtain and long sight tube.

A new drive system was also developed to provide extra torque over the long distances - and additional sensors installed, with the end result being a three times more efficient drilling head.

The length was reached, head pulled back and pipes then inserted to complete the stormwater line.



PEZZIMENTI TUNNELBORE



For all inquiries – including Job Inspections,
Quotations and Project Feasibilities –
please don't hesitate to contact Pezzimenti
Tunnelbore. We are confident we'll hit the
mark on your next microtunneling project.

+ WEBSITE

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When Accuracy Matters.