

THORNLEIGH INLET OUTLET MAIN

DELIVERING AUSTRALIA'S FIRST RCCP MICROTUNNELLING SYSTEM

As Sydney's north continues to grow, Sydney Water is duplicating the drinking water pipeline linking Thornleigh Reservoir and the Thornleigh-Wahroonga Water Pumping Station to secure long-term supply resilience for the region.

Empire Infrastructure supplied approximately 1,184 metres of DN1800 (OD2400) BONNA RCCP jacking pipe for the project, delivering Australia's first RCCP microtunnelling pipe system.

SUPPLYING AUSTRALIA'S FIRST RCCP MICROTUNNELLING PIPE SYSTEM

Empire supplied DN1800 (OD2400) BONNA Reinforced Concrete Steel Cylinder Pipe (RCCP), manufactured in Indonesia and chosen for compressive strength, durability and performance under jacking loads, suited to a pressurised potable water main rated to PN16.

Each pipe section weighed approximately 22 tonnes and moved via international break-bulk shipping, requiring specialised lifting and handling from manufacture to site.

A RECORD-BREAKING MICROTUNNELLING DRIVE

The scope included a record-breaking single-pass microtunnelling drive of over a kilometre, installed beneath private properties and local roads at depths of up to 33 metres, among the largest diameters attempted for RCCP microtunnelling in Australia.

A PROJECT BUILT ON PRECISION AND PARTNERSHIP

Empire coordinated closely with the Ironbark Joint Venture and shipping and port authorities to keep 22-tonne pipe sections moving safely from manufacture through to site, achieving staged, on-time supply throughout the project.

"RCCP gave this project the pressure performance a raw water main needs, in a pipe that could still be single-pass microtunnelled," said Aaron Mackley, Director of Sales & Operations at Empire Infrastructure.



PROJECT DETAILS

Location:	Thornleigh, NSW
Contractor:	IBJV: Bouygues Construction & Rob Carr
Product Supplied:	BONNA RCCP
Scope:	1,184m of DN1800 (OD2400) RCCP Jacking Pipe
Pressure:	PN16
Installation:	Microtunnelling (Single-Pass)

Through technical precision and reliable international supply, Empire Infrastructure continues to deliver landmark pipe infrastructure projects across Australia.

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