

CHESTERFIELD PARK TRUNK SEWER

DEEP TRENCH, SMART SOLUTION

Gippsland Water supplies wastewater services to approximately 70,000 customers across a 5,000-square-kilometre region southwest of Melbourne. In 2017, the authority required new trunk sewer infrastructure to service the Chesterfield Park residential development in Warragul.

GRP ADOPTED TO ELIMINATE OPEN TRENCH RISK AT DEPTH

In 2017, Empire supplied 650 metres of DN300 BOSSPIPE™ Centrifugally Cast GRP (CC-GRP) Jacking Pipe and 50 metres of BOSSPIPE CC-GRP Open Trench Pipe. With most of the alignment exceeding seven metres in depth, CRE Excavations proposed microtunnelling with BOSSPIPE™ CC-GRP as the preferred solution.

"When the majority of a DN300 sewer sits deeper than seven metres, microtunnelling with BOSSPIPE™ CC-GRP removes the open trench risk entirely," said Aaron Mackley, Director of Sales & Operations at Empire Infrastructure.

MICROTUNNELLING REMOVING DEEP EXCAVATION RISK

Underground completed the microtunnelled section at depths of up to 8.5 metres. Adopting microtunnelling eliminated the need for deep open excavation, removing large-scale shoring requirements and reducing backfill volumes. CRE self-performed the 50-metre open trench section using BOSSPIPE™ CC-GRP open trench pipe, maintaining a consistent pipe system across the full alignment.

TRUNK SEWER CAPACITY FOR A GROWING COMMUNITY

Empire supplied both the jacking pipe and open trench pipe for Chesterfield Park, giving CRE Excavations and Edge Underground a consistent, single-product solution across the full scope. The completed trunk sewer connects into Gippsland Water's regional network, servicing the Chesterfield Park residential development.



PROJECT DETAILS


Location:	Warragul, VIC
Contractor:	CRE Excavations & Edge Underground
Client:	Gippsland Water
Product:	BOSSPIPE™ CC-GRP
Scope:	700m of DN300 Jacking & Open Trench Pipe
Stiffness:	SN50,000
Pressure:	PN 1
Installation:	Open Cut & Microtunnelling


The project is one of several Empire has delivered within Gippsland Water's service area, reflecting consistent capability to support regional sewer infrastructure across Victoria.

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