

South East Irrigation Scheme

Client: Tasmanian Irrigation

Duration: Nov 2013 – May 2015

Contract Value: \$18M

Overview

Design and Construct the South East Irrigation Scheme delivering 16ML of water daily to services between Brighton and Forcett in South Eastern Tasmania. From the TasWater connection at Granton, the pipeline crosses the Derwent River and passes through Brighton to a 200ML 'holding dam' at Campania to ensure 365 day supply. Further distribution occurs through 86km of pipeline throughout the Coal River valley region.

Scope of Works

- Design and Construct approximately 86km of irrigation pipeline including road crossings, river crossing, and property outlets.
- Derwent River crossing just north of the Bridgewater Bridge.
- Construction of three pump stations including buildings, pumps and pipe work.
- Construction of a 200ML earth dam including off take structure and spillway outlets.
- Provision of telemetry and control systems for the operation of the pump stations and pipeline outlets.
- Commissioning of all systems.

Key Achievements:

- Derwent River Crossing. The crossing involved the construction of a 946m DN630 pipe string at the banks of the Derwent River, floated into position and sunk at its location north of the Bridgewater Bridge. Detailed planning and implementation of water quality management plan managing protected flora and fauna, acid sulphate soils, CO₂, pH, conductivity and turbidity was required during works. Excavation was conducted through use of an amphibious (floating) excavator.
- Preparation and implementation of excavation management system to manage in excess of 500 identified and unidentified underground services throughout the project.
- Significant exclusion zones and management prescriptions for protected flora, fauna, European and Indigenous heritage reducing corridors for access and construction.
- Construction through Jordan and Coal Rivers requiring detailed methodology and environmental management plans and vigilance during construction, remediation and rehabilitation.
- Management of construction access through 140 private landholders, 5 councils and numerous regulatory bodies.

