

NORTH ESK IRRIGATION

Pumps and Pipelines

Date: 2018

Principal: **Tasmanian Irrigation**

Project Value: **\$12M**

TASK

This design and construct contract consisted of 55km of pipeline, pump station, pressure reduction stations, scour valves, air valves and property outlets to service 65 outlets for water from the dam to landholders. The irrigation district covered the locations of Nile, Evandale, White Hills and Relbia.

Shaw Contracting partnered with a local engineering design consultancy to perform the design with negotiating 85 separate landholder access agreements to properties as well as completing quality inspections on all facets of the project. Shaw organised logistics for the principal supplied HDPE pipe from the NW coast location.

CHALLENGES

The design and construct contract required several design workshops and submissions prior to construction commencing. This combined with a detailed specification made the design process challenging to meet expectations and commence construction on schedule.

Shaw negotiated with all affected landholders for access for construction activities. This required meeting, understanding expectations from the landholder, detailing access to properties, construction activities and remediation to be undertaken. Agreement complexity varied between family landholders to international companies.

With a majority of works completed during winter, resourcing and delivery patterns needed to flex to align with site availability and conditions.

The volume of components required along with principal supplied components introduced complexity into the logistics chain. 65 outlets, 112 air valves and 19 scour valves required careful management to including landholder and client signed off.

OUTCOMES

The project provided successful outcomes to the principal. The pump station and pipeline were completed into Rocklands Dam with sufficient time for a partial fill of the dam. The distribution pipeline was constructed, tested and commissioned ready for a full irrigation season for irrigators who required water in the first season.

