

Project Summary

Dimboola Pump Station

CLIENT	GWMWater
LOCATION	Dimboola
PROJECT VALUE	Approx. \$100K

Project Description

Functional and detailed design of the Dimboola Pump Station together with 38 km pipeline from Dimboola to Nhill. The functional design component of the assignment included functional design of the pump station structure, pump station layout, transfer system controls & instrumentation, pump station operation, Nhill lift pumps replacement, intermediate pipeline pressure sensor station, alarms and telemetry requirements. The detailed design included all civil, mechanical, electrical and control elements of the transfer pump station including controls at the Dimboola and Nhill tanks and installation of an intermediate pressure sensor station on the pipeline.

Facets of work completed include:

- Authority operational requirements
- Pump station building layout
- Pump station mechanical layout
- Criteria for pump selection
- Functional description of controls, alarms and PLC operation
- Types of instrumentation
- Functional description of system telemetry
- Electrical load calculations
- Preliminary estimates of capital and power costs
- All design assumptions and calculations.

