

NORTHAMPTON WATER PUMP STATION

PPS Alliance / Water Corporation

Location

Northampton, WA

Commencement

July 2007

Completion

Aug 2008

Contract Value

\$1.53 million

Client

PPS Alliance



Zero Harm

The project is 100% complete and there have been no lost time injuries.

LTIs: 0

MTIs: 0

Overview

The Northampton Booster Water Pump Station is located 474km north of Perth close to the town of Geraldton. The pump station is vital for distributing bulk water from Geraldton to the town of Northampton.

Contract Supervision

The contract was managed by the PPS Alliance with Cobey as Main Contractor.

Scope

Cobey was awarded the contract for the design & Construction of the 75kW booster water pump station.

The works required were:

- Total Pump Station Design
- Building Construction
- Gantry Crane Installation
- Pump Installation
- Suction & Discharge piping fabrication & Installation
- Site Drainage
- Valves & Mag Flow Meter installation
- Electrical including SCADA
- Access road construction
- Testing & Commissioning
- Full site reinstatement

Project challenges

The After the contract was awarded there was a main change by PPS Alliance for them to supply different pump sets and also increased the pipe pressure rating, resulting in a complete re-design of the pump station building and associated pipework.

Construction of the pumping station and the pressure main out of the Perth Metro area required experienced planning & management.

Additionally, the original site nominated for the pump station clashed with an aboriginal burial site and had to be moved.

Managing the challenge

Cobey engaged Aurecon (formerly Connell Wagner) and Western Controls for the design of the pump station and worked closely with them, the Client and Water Corporation Asset Delivery Representative to meet the changes in design parameters.

Although the design changes by PPS added significantly to the overall project cost, the project was successfully delivered on time and the Region were very happy with the finished product and its performance. Cobey provided quick and efficient responses to the Client and Water Corporation to achieve these results.

Cobey worked closely with aboriginal elders and Water Corporation personnel in selecting a new site and also engaged aboriginal monitors during excavation works at the new site.

Cobey ensured that management maintained efficient communication on site through regular site visits and phone calls.

Adding Value

We added significant value by pro-active approaches to design by utilising our experience in Water Corporation design and OSH standards.

The pump station building was initially built at Cobey's workshop, then disassembled into major components for transport to site. After constructing the pump station floor, site installation was very quick (several days) which minimised site works and reduced safety risks.

Fabrication of all MSCL and stainless steel fittings were also undertaken in house by Cobey which minimised time and safety risks.

