

PICTON WATER TREATMENT PLANT

Monadelphous / Water Corporation

Location

Picton, WA

Commencement

Nov 2010

Completion

Apr 2012

Contract Value

\$2.92 million

Client

Monadelphous Group



Zero Harm

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

LTIs: 0

MTIs: 0

Overview

The Picton Water Treatment Plant is located 180km south of Perth close to the town of Eaton and City of Bunbury. The plant commenced operating in early 2012 and produces 11ML/d. Process elements include aeration, clarification, gravity media filtration, sludge treatment, and potabilisation treatment including chlorination and fluoridation.

Contract Supervision

The contract was managed by Monadelphous and Water Corporation with Cobey as Subcontractor.

Scope

Cobey was awarded the contract for the below ground and above ground piping at the treatment plant.

The works required were:

- Fit out of the clear water pump station including washwater pumpsets and service water pumpsets, and the low lift pump station
- below ground pipework including 1.7km of MSCL pipelines to DN800 for the inlet, outlet and process pipelines
- above ground MSCL and stainless steel pipework for the process lines
- blowers including fabrication of stainless steel pipework;
- main bore head works and collector main
- Testing of all pipework

Project challenges

Head Contractor's construction program required many subcontractors on site at any time. Cobey were required to liaise and cooperate with other works.

Construction of the below ground pipeline sections within the plant had to be carried out in close proximity to the concrete and building contractors on site.

Dealing with the numerous design issues and changes resulting in re-work, time constraints and impacts on other site works.

Consisting primarily of a Perth metro based workforce, Cobey had to ensure that communication to/from site was maintained at a high level to fast track potential site challenges.

Managing the challenge

We managed the job successfully by working with the Client and Water Corporation to provide quick and efficient responses to the numerous changes. We re-worked the construction program to accommodate the design changes.

Some components were accelerated and additional resources provided to complete the works. We also worked closely with other contractors to give a better overall Plant completion outcome.

Frequent site visits and phone calls by Cobey management ensured communication and project deliverables were met.



Adding Value

We added significant value by pro-active approaches to site works including altering the construction programme to suit other site works, design changes and delays.

Cobey also worked closely with the Design Consultant & Client on changes to design. This resulted in fast tracked solutions to clashes saving time and money.

Cobey fabricated all MSCL & SS piping in house and offered fast turn-around fabrication on design changes.

