

# BEENYUP WASTEWATER TREATMENT PLANT

W2WA / Water Corporation

## Location

Craigie, WA

## Commencement

Jan 2008

## Completion

Dec 2008

## Project Value

\$1.13 million

## Client / Main Contractor

W2WA



## Zero Harm

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

LTIs: 0

MTIs: 0

## Overview

The Beenyup Waste Water Treatment Plant is located in the Perth Northern suburb of Craigie. The plant upgrade commenced operating in early 2012. The plant treats waste water to an environmentally acceptable level and discharges the water in to the Indian ocean.

## Contract Supervision

The contract was managed by W2WA and Water Corporation with Cobey as a 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 RAS building including pump sets, suction & discharge piping, pipe supports.
- below ground pipework including MSCL pipelines DN1200 to DN600 for the tank inlet, outlet and process pipelines
- Wet Well pump station fit out
- above ground MSCL and stainless steel pipework
- All Valve installations
- Connection to existing infrastructure
- Testing of all pipework
- Commissioning

## Project challenges

Head Contractor's construction program required many subcontractors on site at any time. Cobey was 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.

Design delays on site meant that Cobey was required to re-sequence construction crews on a regular basis as required by the Client.

The RAS connection to existing infrastructure only allowed for a 4hr window at night. Working beyond this window would have created a sewer overflow at the plant.

### Managing the challenge

We managed the job successfully by working with the Client to provide quick and efficient responses to the numerous changes.

We re-worked the construction program to accommodate numerous design changes and re-sequenced our works based on site access & availability.

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.

By working with the Client regarding methodology & timing constraints of the shutdown connection, Cobey suggested changes to the design allowing the use of Straub couplings in lieu of welded joints. This change allowed the connection to be carried out within 4hrs and without the use of site welding.

### 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 project delays.

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

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

Cobey's knowledge and employees trained in Water Corporation Confined Space Entry, Mechanical and Welding standards meant work was carried out safely & correctly the first time.

