

SUBIACO WATER DISTRIBUTION MAIN RELOCATION

Subiaco Redevelopment Authority / Water Corporation

Location

Subiaco, WA

Commencement

Aug 2008

Completion

Oct 2008

Contract Value

\$0.63 million

Client

Subiaco Redevelopment Authority



Zero Harm

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

LTIs: 0

MTIs: 0

History

The relocation of the Subiaco DN800 water distribution main was required for the development of the Australian Fine China site, located at the intersection of Hay St and Roberts Rd in the Perth suburb of Subiaco.

The new location of the MSCL water main diverts through residential streets parallel to two-storey houses and various commercial buildings.

Contract Supervision

The contract was managed by SKM Consulting

Scope

Cobey was awarded the contract for the relocation of 450m of DN800 welded MSCL pipe to be installed below ground. The works required were:

- Locate existing services
- Excavation & Backfill works
- Pipe handling & installation
- Supply of MSCL pipe fittings
- Site welding of pipe joints
- Hydrostatic Pressure Testing
- Pipe Disinfection
- Connections to existing distribution and reticulation mains
- Supply and installation of RC drainage works
- Full site reinstatement

Project challenges

Most of the site was difficult digging between two-storey houses and multi-storey commercial buildings under existing pavement. The proximity to new and heritage-listed buildings and the depth of pipe was also a challenge.

Existing services underneath the road pavement were not fully known and had to be found prior to commencement of the main works.

Residential access also had to be maintained whilst constructing the pipeline limiting the extent of road closures.

Contaminated soil at this site meant that clean suitable fill had to be imported limiting site access from one end of the worksite. Dust was also a critical issue at this location due to the close proximity of local residents.

Managing the challenge

We managed this job by providing quick and efficient responses to changes and working closely with the Client, design consultant, local residents and Water Corporation.

Heritage listed buildings were continuously monitored and road closures were carefully planned to maintain residential access and provide sufficient space to construct the pipeline.

Removal of contaminated soil from the Site was to a suitable approved disposal location and dust was controlled via water cart and dust monitors. This also assisted our liaison with local residents throughout the construction period.

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Adding Value

We added significant value by pro-active approaches to site changes using experienced and highly competent personnel. The project met its required completion date without incident.

Fabrication of MSCL fittings was undertaken in larger spool pieces to maximise off-site fabrication, minimise on-site welding, reduce construction time and increase site safety.

Cobey offered solutions to problems to the Client and Design Consultant for approval based on previous experience and knowledge of Water Corp standards. This allowed an efficient stream of information for design changes and minimised delays on site.

