

MOGAS IMPROVEMENT PROJECT

Shell Refinery (Aust) Pty Limited

Clyde, N.S.W.



Hannas Civil Engineering Pty Ltd was awarded the Clyde Civil Works component of the Mogas Improvement Project in late January 2005. The Mogas Improvement Project was a \$150 million design and construct capital expenditure project undertaken by Aker Kvaerner Australia Pty Ltd for Shell Refining Australia Pty Ltd to provide a new process plant in each of the Geelong and Clyde refineries to reduce the quantity of benzene, a known carcinogenic, in Shell's saleable fuel products.

Initial project scope included demolition and excavation, the construction of piles, pile caps and reinforced concrete ground slabs, and the placement and removal of a temporary crane pad. Following successful negotiations, the scope of works was increased to include culvert crossings and associated pavement re-instatement, additional excavations, new hardstand areas, creating temporary crane assembly areas, temporary modifications to roads to allow the passage of heavy load platforms, construction of additional footings and civil structures, road repairs, and river dredging works. The electrical and instrumentation subcontractor also awarded additional trenching and backfilling works.

Accurate set out and placement of holding down bolts within tight tolerances specified by the client to enable accurate positioning of modules, pumps, columns, and a reactor following completion of the civil works was achieved. This project was completed with an excellent safety record, no lost times or medically treated injuries, ahead of program, and to the highest quality standard.

The success of the project was accomplished due to the dedication of Hannas Civil Engineering's professional management team, site supervisors and construction crew. This project has further demonstrated Hannas' oil and gas industry expertise, ongoing commitment to deliver projects to tight time frames and to a high standard, and flexibility to increase work scope.