

## Elite Expansion Project

### Client

Coogee Chemicals Ltd

### Project Location

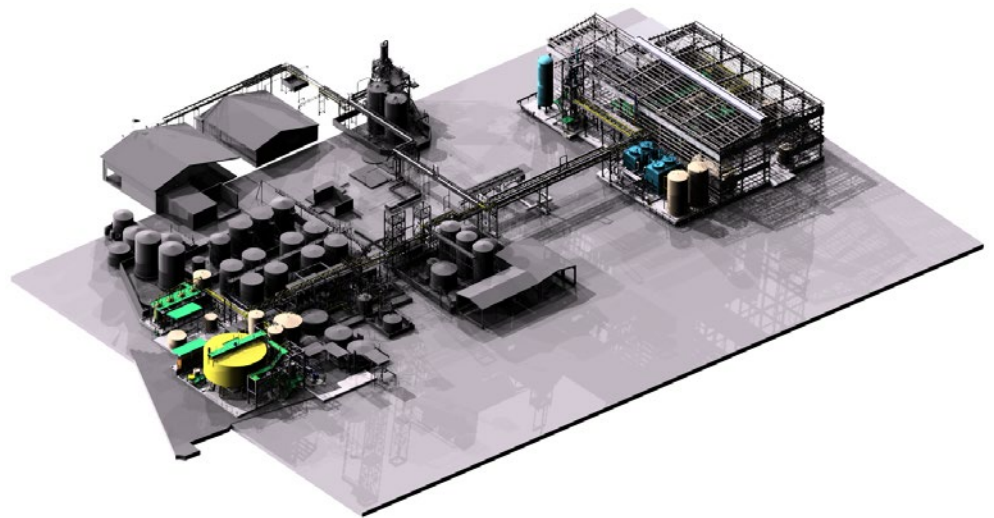
Location: Elite Chemicals Chlor - Alkali Facility,  
Lytton, Brisbane

### Products

Sodium Hypochlorite, Hydrochloric Acid  
and Caustic Soda

### Project Capital Value

\$40M



### Project Summary

Due to an increase in demand for water treatment chemicals in Queensland, Coogee Chemicals committed to expanding their Elite Chemicals plant in Lytton Brisbane during 2015. The expansion project significantly increases the capacity of the existing plant utilizing the latest technology to increase energy efficiency. The plant takes salt and water as the main inputs and processes them to produce Sodium Hypochlorite, Hydrochloric Acid and Caustic Soda.

### EPMS Scope

- Preparation of Scopes of Work for: structural, mechanical, piping, civil, piling
- Review of Process Flow Diagrams
- Review of Pump Sizing
- Preparation of Mechanical Datasheets
- Incorporation of site 3D Scan data into 3D model for accurate integration between new designs and existing plant
- Mechanical Design and Detail Drawings
- Civil Design Detail Drawings
- Structural Design and Detail Drawings
- Full detail design for the main process plant building including architectural drawings
- Piping Design to AS4041 including 3D modelling and full Piping Isometric Drawings for all pipe >25NB
- Design Support during Construction
- Full 3D model produced with adaptive constraints.

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### Project Achievements

Design carried out to a high standard under tight schedule using a cohesive multi-disciplined design team. Full 3D model created allowing additional upgrades on site to be easily designed. Seamless integration of brownfield site 3D scan data into the overall 3D model. Large quantity of piping isometric drawings created efficiently using latest 3D modelling techniques and automated isometric creation software.

