

## SALACIA WATERS MARINA

This project was aimed toward the construction of a 71 berth marina accommodating vessels 10 – 32m in length located in the lower Coomera River adjacent to the Salacia Waters development at Paradise Point.

### Marina Design

Design wave conditions were determined using a numerical model to determine fetch-based generation of wind waves. Sediment characteristics as well as tidal and flood velocities were determined by others. A suitable layout was determined based on the relevant Australian Standards, the preferred vessel spread and the influence of prevailing tidal currents on expected manoeuvrability. Required dredging was determined, along with expected maintenance requirements. Requirements for pontoon characteristics, pile sizing and layout, gangway alignment and length were determined along with marina furniture, required services and signage.

### Dredge Management Plan

A dredge management plan was developed for dredging within the marina footprint with land-based placement for use in reclamation activities. The plan addressed works methodology and monitoring programme to ensure environmental objectives and approval requirements were met, including water quality monitoring at the dredger and at discharge locations from onshore bunds. Options for future maintenance dredging activities were also reviewed.

### Marina Management Plan

The management plan for the marina included:

- Marina maintenance
- Dredging maintenance
- Flood management. While the marina was designed to reduce flood impacts, there are also requirements for flood warning, securing of vessels, review of safe access and post-flood maintenance.

### Approvals

Applications, drawings and supporting information for the marina was prepared. These were submitted by others as part of an overall submission for the development. Responses to requests for further information were prepared.

### Tender Process

Technical specifications, contract documentation and supporting information was prepared and provided to a number of Contractors to obtain tenders for construction of the proposed marina. Received tenders were assessed and recommendations provided.

### Contract Superintendent

The marina was constructed by Superior Jetties and International Coastal Management acted as Contract Superintendent throughout the works.

### Date

2006 – 2010

### Location

Gold Coast, Australia

### Client

Salacia Waters

### Contact

Daniel Kang

### Overall Project Value

\$2.2M

### Scope

- Marina Design
- Dredge Management Plan
- Marina Management Plan
- Approvals
- Tender documentation
- Tender review
- Contract Superintendent