

PROJECT SHEET

DAMPIER BULK HANDLING FACILITY

BOSKALIS

Boskalis is a leading global marine contractor and services provider. With safety as our core value, we offer a wide variety of specialist activities to the oil & gas and renewables sectors. These activities include marine installation and decommissioning, seabed intervention, marine transport and services, subsea services and marine survey. In addition, Boskalis is a global dredging contractor, provides towage and terminal services across the globe and delivers marine salvage solutions.

By understanding what drives our clients we are able to provide the solutions that enable them to meet their specific business goals. For this reason we are constantly looking for new ways to broaden and optimize our offering and are committed to expanding our proposition, supported by our financial strength. With our committed professionals in engineering, project management and operations, 500 specialized vessels and an unprecedented breadth of activities in 90 countries across six continents we help our clients push boundaries and create new horizons.

SCOPE OF WORK

The Port of Dampier coastline is renowned for its rocky coastline and the location of the work is directly affected by this feature. Approximately thirty percent (30%) of the total volume of material dredged required drilling and blasting before the material could be dredged and removed. The geotechnical information gathered from the dredging area described the rock as being granophyre ranging in UCS strength from high to extremely high.

MANOEUVRING AREA

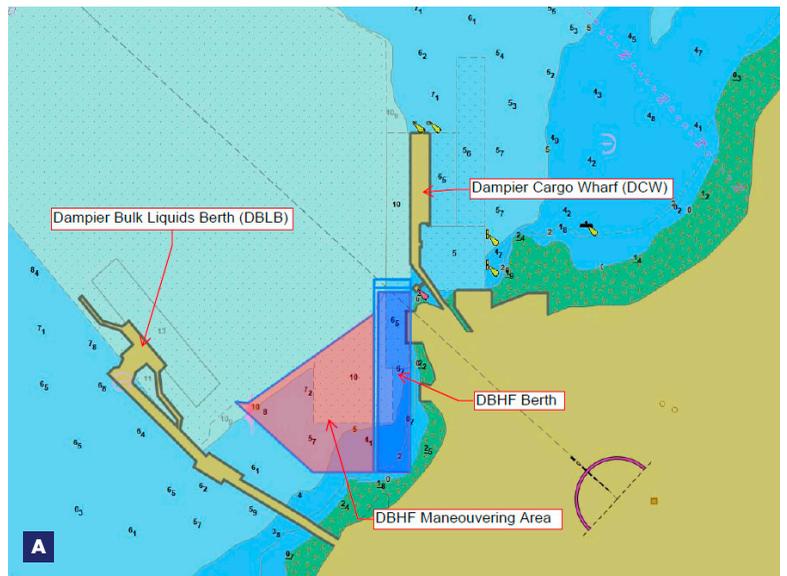
The manoeuvring area design depth is R.L -11.0 m CD and covered an area of approximately 30,000 square metres joining up with the existing Dampier Port turning basin. The volume dredged from the manoeuvring area to design depth, was approximately 93,500 cubic metres, of which 9,900 cubic metres is rock.

BERTH POCKET

The Berth Pocket design depth is R.L -13.2 m CD and its dimensions are 287.5 metres in length and 52.55 metres in width. The volume to design depth removed was approximately 110,500 cubic metres, which contained 42,100 cubic metres of rock.

FEATURES

Client	Clough Projects Australia Pty Ltd
Location	Dampier, Western Australia
Period	1 October 2024 - 12 May 2025
Contractor	Boskalis Australia Pty Ltd
Long-term driver	Growth worldtrade



A DBHF general layout and dredging footprint



REASON FOR CLIENT TO CARRY OUT THE PROJECT

The new Dampier Bulk Handling Facility will encourage trade diversification at the Port of Dampier by opening access to a world-wide urea market and increase the trade of general cargo.

The facility will be built south of the existing Dampier Cargo Wharf and be supported by a new berth pocket, which will be 280-metres-long and 13.2-metres-deep, and an 11-metres-deep manoeuvring area. It will berth Supramax and Panamax vessels and support a shiploader and conveyor for the bulk export of urea. It will also accommodate general cargo vessels, cruise ships, as well as vessels supporting the offshore oil and gas industry.



GENERAL SUMMARY OF THE PROJECT;

- **Executed work:** dredging and drilling & blasting
- **Equipment deployed:** Backhoe dredger Baldur
- **Special circumstances:** Strict environmental restrictions, therefore a bubble curtain was deployed. Strict vibration limits on existing wharf and nearby cultural heritage areas therefore a specific vibration monitoring campaign was executed during the drilling&blasting campaign.
- **Goals and challenges:** This project was a success and showed us the combined strength of dredging and drilling and blasting on one unit. Additionally it strengthened our track record with drilling and blasting operations in Australia.
- **Versatility of Baldur:** During the works the Baldur assisted the client in many ways with other scopes such as side casting Armour rocks, deeper excavation with longer stick attachment to prepare the works for pile cutting and other scopes related to the clients demolition scope.
- **R&D:** R&D department assisted with engineering a bespoke bubble curtain for the D&B operation.
- **Other involved operating companies:** Boskalis rockfall undertook the drilling and blasting from the BHD Baldur.

- B** Drill rigs onboard Baldur
- C** Baldur dredging
- D** Baldur side casting large armour rock from original revetment
- E** Blasting operations in Dampier Port
- F** Bubble curtain operational