

Port of Melbourne Channel Deepening



Location

Melbourne, Australia

Client

Port of Melbourne Corporation

Start Date

January 2002

Office Responsible

Cardno Lawson Treloar

Responsibilities

Meteorological and oceanographic advice including wave climate, tide levels and monitoring systems.

Project Scope

Cardno Lawson Treloar is providing a number of services to the Port of Melbourne Corporation for the Channel Deepening Project, which is looking at increasing the depth available for shipping in the Port of Melbourne.

Cardno Lawson Treloar is providing general support and advice on meteorological and oceanographic matters including wave climate, tide levels and monitoring systems. As part of the assessment of potential environmental impact, Cardno Lawson Treloar are carrying out numerical modelling of hydrodynamics of tides and currents as well as waves and sediment transport. The modelling also involves detailed prediction of the behaviour of plumes of material put into suspension by the dredging operations.

In support of the design process for the project, Cardno Lawson Treloar are running comprehensive ship simulations using a full three-dimensional rendering of the channels and the capability of a full-bridge ship-simulator using the Simflex system from Force Technology (Denmark).

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