

PROJECT SHEET

PORT OF AÇU, BRAZIL
MAINTENANCE DREDGING

INTRODUCTION

The T1 Terminal is located in the Port of Açu in São João da Barra in the north of the State of Rio de Janeiro. The Boskalis services consisted of removing sediment from the mooring and turning basins, and in the access channel, in order to ensure a navigation depth of -18.50 m DHN. The first phase of the port operation covered only the iron ore export terminal for vessels requiring -18.50 m DHN of navigation depth. The second phase, involving the deepening of the access channel and basins to -20.5 m DHN, is now in progress. This work is also being carried out by Boskalis for Ferroport (Anglo American and Prumo Logística), the current name for LLX Minas-Rio.

PROJECT DESCRIPTION

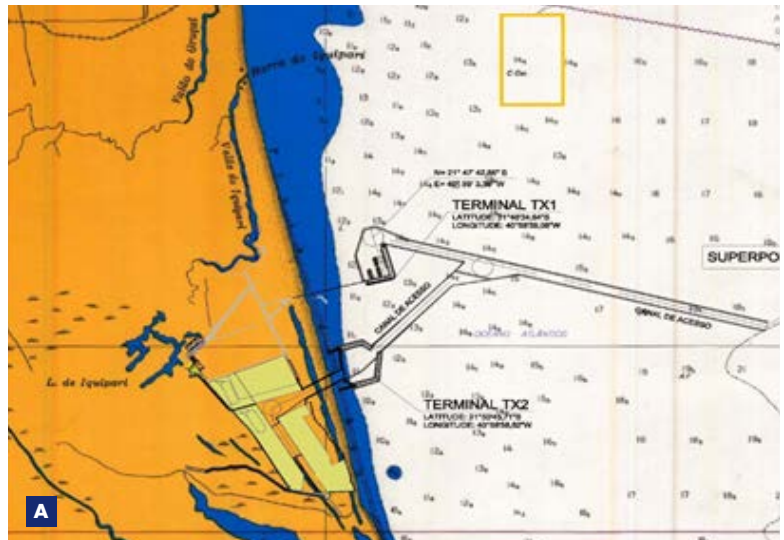
Maintenance dredging to -18.5 m DHN depth in a 230-meter-wide channel and a turning basin 700m in diameter in line with the project design. A volume of 2,690,790 m³, as reported by the client, was dredged with the trailing suction hopper dredger 'Seaway'. The dredged material consisting mainly of sand and silt was taken offshore to an area located at the maximum distance of 26 km from the dredging location.

PROJECT FEATURES

The project is constantly under development in line with the continuous interaction with the client with the aim of increasing efficiency and

FEATURES

Company	LLX Minas-Rio
Location	São João da Barra-RJ
Period	February 2014 - May 2014
Sub-contractor	Boskalis do Brasil Dragagem e serviços Marítimos Ltda



finding the best technical and cost-effective solutions so that all stakeholders are satisfied.

The nature and dimensions of the work, as well as the various technical details of this project, the client requirements, the range of stakeholders and the future concessionaires of the Port of Açú imply constant variations in the initial project design.

That sometimes affects the progress of the works but it also represents an interesting technical and management challenge in a major hydraulic engineering project.

LOCAL CONDITIONS

Local conditions are always an important factor in the selection of the working method. For the maintenance dredging project involving the T1 access channel and turning and mooring basins, the most important elements were the soil conditions on site, the weather and sea conditions and the local bathymetry.

The local bathymetry was considered deep enough to allow the main dredging equipment to access the location given the minimum depth (draft) of -12 m DHN on the site.



- A** Location of the project
- B** Aerial view of T1 Terminal
- C** TSHD Seaway

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