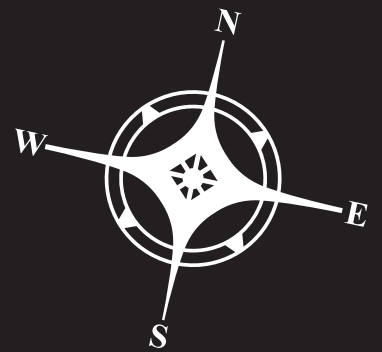




Figure 1: Dredge, Booster Barge and Disposal Barge being launched at pre-prepared launch pad at Milang for deep water access, prior to sailing to Narrung via Lake Alexandrina



**MARITIME
CONSTRUCTIONS**
Pty Ltd

CASE STUDY 2 *Emergency Dredging Services, Narrung*

Item	Response
Title of Services Contract	Lake Albert Spoil Treatment and Channel Preparation Project, Emergency Dredging Services, Narrung
Description	<p>This project consists of dredging estuarine pre-dredged material (spoil) and relocating it to a designated deep water site situated in Lake Alexandrina. The spoil was left behind from a previous emergency channel deepening project and being potentially acidic, may cause environmental harm.</p> <p>Equipment mobilised for this project includes a cutter suction dredge, floating booster pump and a specially configured and manned diffuser barge which will ensure the spoil is distributed evenly over the lake floor within the confine of a silt containment curtain.</p> <p>This project will also deepen and widen the existing channel to facilitate fresh water pumping into Lake Albert.</p>
Location	Narrung, South Australia
Value	\$2,000,000
Scope of Work	<ul style="list-style-type: none"> Relocate the existing spoil (approximately 65,000 m3) in the narrows between Lake Alexandrina and Lake Albert; Disposal of spoil at a defined location in the deeper waters of Lake Alexandrina (approx 2 Km from the spoil location); Supply, installation and maintenance of a silt curtain surrounding the disposal location, and; Supply, installation and maintenance of buoys to mark disposal areas and exclusion zones.
Contract Type (eg maintenance, construct-only, D&C to relevant Australian Standard Form of Contract or a relationship-based Agreement)	Construct
Contract commencement date	26/11/2009
Contract completion date	On-going
Contract Period	5 months
Key features of the provided service	<p>Dredging of exposed spoil and disposing of it evenly in deeper waters.</p> <p>Installation of 1.2Km by 0.2Km silt curtain to control plumes at the disposal location, i.e. disposal of spoil is over an area of 240,000 m2.</p>
Outcome in terms of Timing, Budget, Quality and Contractual Close-out	On-going. The project is currently running on schedule and well within budget
Innovation and continuous improvement (include description of each innovation and its results in terms of improved efficiencies and the extent of cost savings achieved)	Water access to the site posed major challenges with River Murray and Lake Alexandrina levels being very low. This issue had the potential of being a show-stopper. Maritime Constructions developed a special floatation barge below the ladder of the dredge to reduce the dredge draft to under 0.75m from 1.5m, to allow the dredge to sail to Narrung from Milang in very shallow waters.
Other points considered relevant	
Details of personnel involved with the examples presented and cross referenced to the CVs of key personnel nominated in the Proponent's Proposal where appropriate	<p>*Sikko Krol- Project Manager</p> <p>*Nominated key person in Proposal</p>
Client Organisation Name and Address	River Murray Infrastructure, Water Resources Program Division, Department of Water, Land and Biodiversity Conservation (DWLBC)
Contact Person and Phone Number(s)	Ed Wilby, Project Manager, (08) 8204 8549