



Capability Statement

**Maritime Environmental and Engineering
Consultancy Services**



Company Overview



About Us

AMA Maritime Consulting, a division of Australasian Marine Associates Pty Ltd, provides a broad range of integrated marine environmental and coastal engineering consultancy services for port and harbour infrastructure projects, including addressing the permitting and license conditions at both a State and Federal level. Coupled with advanced expertise in site investigations, project management, maritime infrastructure development as well as coastal processes and bathymetric mapping capabilities, AMA Maritime Consulting can provide a fully integrated service for projects that interface with marine and coastal environments.

Core Capabilities

Marine Environmental

- Dredge material disposal monitoring and impact assessments
- Level 1, 2 and 3 Commercial Diving
- Tropical, sub-tropical and temperate reef ecology
- Soft sediment community studies, including infauna and epifauna, investigations, surveys of seagrass, meadows and low profile reefs
- Intertidal surveys, including mangrove and saltmarsh studies
- Fish surveys, including baited remote underwater video
- Marine mammal observations and other charismatic megafauna studies
- Water column profiling and metocean data collection
- Fixed site water quality monitoring, using buoy and mooring systems and where applicable, telemetry for gathering data in real time.
- Water chemistry and sediment quality analyses
- Geochemical, geological, geotechnical and geophysical characterisation
- Bathymetric and seabed mapping surveys
- Ecotoxology studies and ecological risk assessment
- Environmental management and due diligence assessments for coastal development and dredging projects
- Hydrodynamic modelling/ coastal processes assessments
- Ocean Outfall and plume dispersion investigations
- Design and execution of small and large scale dredging programs

Our Approach



Our specialists participate within multi-disciplinary teams, to help guide engineering project design and environmental outcomes. We have specialist knowledge of ecosystem and coastal processes functioning, coastal engineering, tropical seismicity, impact assessment, marine environment approvals and maritime engineering, which provide our clients with opportunities to fully integrate and improve their environmental and engineering practices in all phases of a project's life cycle.



Team Experience

Our specialists have experience working in South America, West Africa, Madagascar, Seychelles, Singapore, the Torres Strait Islands, Papua New Guinea, New Zealand and the Solomon Islands, as well as throughout Australia. Our team consists of expertise in marine science, water quality and sediment chemistry, coastal engineering, dredging, maritime infrastructure development and maintenance, oceanography and ecotoxicology.



Our depth of experience is vast and our team consists of personnel who have previously sat on the DoE Commonwealth Sea Dumping Independent Review Panel and our principals are routinely asked to lecture and present on the application of NADG guidelines and dredge plume dispersion modelling. In addition to our technical expertise, AMA Maritime Consulting also offers Commercial Divers, who are certified to AS2299.

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Case Studies

Selected Maritime Environmental
and Engineering Projects





MARINE ENVIRONMENTAL IMPACT ASSESSMENT REPORT

SEAWATER INTAKE CONSTRUCTION, BELMONT DESALINATION

Hunter Water Corporation (Hunter Water) has constructed a desalination plant (the 'Project'), adjacent to the Belmont Wastewater Treatment Works (WWTW) in Belmont South, a suburb of Lake Macquarie Local Government Area (LGA) of New South Wales (NSW). A key component of the desalinisation plant was the establishment of the intake pipeline and seawater intake structure. The pipeline alignment is approximately 800m in length, extending outwards from the central housing (on land) to the offshore intake structure.

➤ AMA Maritime Consulting was engaged by John Holland Group Pty Ltd to complete a Marine Environmental Impact Assessment Report prior to construction of the seawater intake. A Sediment Sampling Analysis Plan (SAP) implementation report was completed which characterised the contamination status of the sediments for either unconfined offshore or onshore disposal. A benthic habitat assessment was undertaken by AMA in 2024 and 2026, both within and adjacent to the proposed dredge area, before and after dredging works which investigated epifauna and infauna communities.

➤ AMA completed hydrodynamic modelling and investigated suspended sediment concentrations (SSC) based on the submersible pump dredging and side casting approach and examined the nearfield and farfield plumes, as well as sedimentation rates for examining potential impacts to benthic communities. As part of the works, AMA also recently completed a Construction Works Management, Emergency Management and Dredge Environmental Management Plans.

➤ Refer to our website for further information and additional case studies

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MARINE EIA, SEDIMENT TRANSPORT MODELLING, MANAGEMENT PLANS

BRIBIE ISLAND BRIDGE UPGRADE



The Bribie Island Bridge is located at the eastern extent of the Cabolture-Bribie Island Road and connects Bribie Island to the mainland over the Pumicestone Channel. The bridge is approximately 835m in length and was constructed in 1963. The existing Bribie Island bridge is a two-lane, single carriageway bridge with a narrow pedestrian walkway. The existing structure cannot be upgraded to current standards and so, an additional bridge structure is now required to be built by The Department of Transport and Main Roads (DTMR) to cater for future transport requirements.



AMA Maritime consulting were contracted by AECOM to undertake marine surveys and a marine environmental impact assessment (MEIA) in 2022 (AMA, 2022) and in 2025 (AMA, 2025), which confirmed the presence of key habitat features such as mangroves, seagrass and intertidal mudflats within the greater study area, which are important attributes of the Ramsar site. The key impact pathways identified for the project are related to direct habitat loss from construction of the bridge and potential direct and indirect impacts from piling and general construction related activities.



Modelling of suspended sediment plumes from piling activities was also undertaken to examine potential impacts of suspended sediment concentrations over the main seagrass meadows located -300m to the north and south of the proposed bridge. Detailed assessment of contaminants in the sediments was also undertaken to examine potential impacts to species that are exposed to sediments that are mobilised by piling or construction related activities.



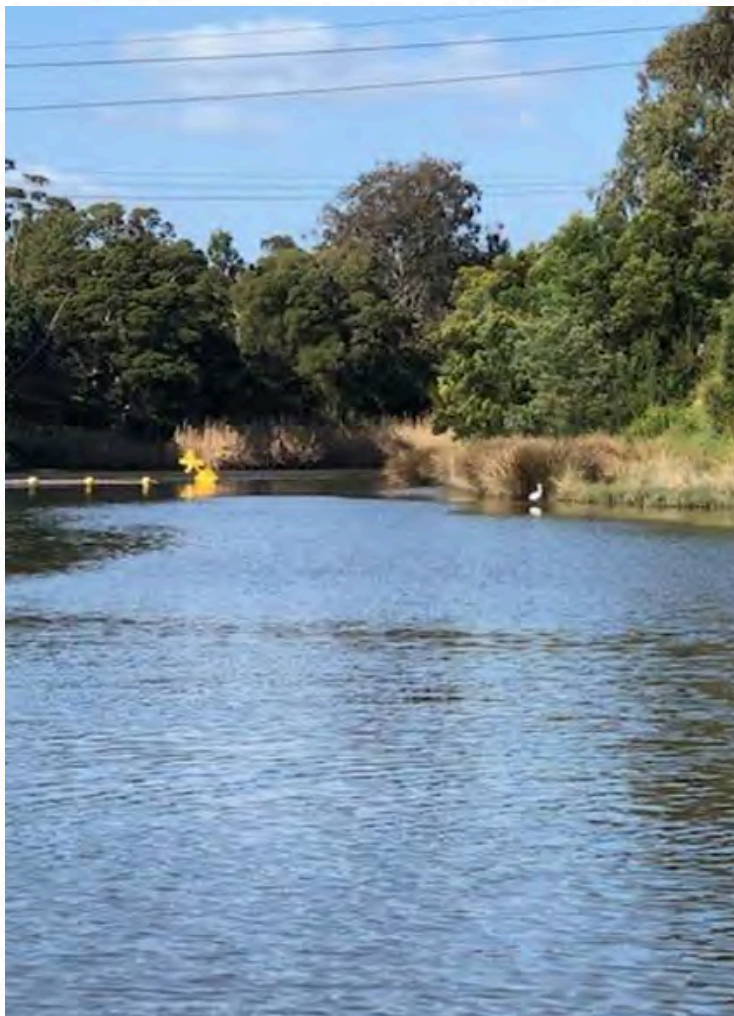
AMA is currently undertaking acoustic noise monitoring and noise modelling and preparing the updated MEIA and also preparing the Construction Environmental Management and Marine Fauna Management Plans.

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SAP IMPLEMENTATION REPORT

Lower Yarra River Maintenance Dredging



Parks Victoria as the Waterway Manager for the Yarra River (under the Marine Safety Act 2010) is responsible for ensuring safe navigation for both recreational and commercial boat users. The gradual accretion of silt and sediment in the Lower Yarra River has led to a reduction in channel width and depth for some parts of the river, resulting in restricted safe navigational access to facilities. As a result, ongoing and periodic dredging is required to enable safer navigation and to reduce the amount of silt in key locations ensuring the river is accessible for public use well into the future.



AMA Maritime Consulting (AMA) were commissioned in 2020, 2021 and 2026 by Parks Victoria to undertake sediment sampling and analysis of the priority maintenance dredge sites and dredge material placement areas in the Lower Yarra River and gather site specific information about the sediment quality and contaminant levels. AMA provided innovative measures including the determination of ambient contaminant concentrations in and adjacent to disposal areas, for assisting with describing potential impacts and assisting with managing ongoing maintenance dredging activities.

SAP IMPLEMENTATION REPORT

Darwin Port Maintenance Dredging 2025



Darwin Port has a need to periodically undertake maintenance bed levelling and dredging to remove unconsolidated sediment (e.g. clay, silt, sand) that is naturally transported and deposited into existing berth pockets at East Arm Wharf and Fort Hill Wharf and into the berth pockets, turning basin and channel of the MSB. This bed levelling and dredging is required to maintain the required depths, to provide safe access at all tides for vessels using port facilities and maintain effective operational parameters at the facilities.



The Darwin Port Maintenance Dredging SAP was prepared by AMA, consistent with the requirements of the National Assessment Guidelines for Dredging and involved targeted sampling at the following port locations:

- Marine Supply Base (MSB)
- East Arm Wharf (EAW)
- Fort Hill Wharf (FHW)
- MSB Entrance Channel (MEC)



Sediment sampling was conducted using a combination of surface grabs and diver coring. AMA also prepared a Dredging and Dredge Material Management Plan for the required periodic maintenance dredging and spoil disposal and bed levelling activities at East Arm Wharf, Fort Hill Wharf and the MSB. The purpose of the DMP addresses the short-term requirements of the port < 5 years and also provides guidance on the works required to maintain the channels and berths in the Port of Darwin. AMA also monitored turbidity through the water column during dredging and bed levelling activities at specific locations along transect lines and along the prevailing current or plume directions.

Senior Expertise

Directors



Dr Daniel Spooner

Dr Spooner is a marine specialist who has played a key role in delivering some of the most significant coastal infrastructure projects in Australia. Daniel has over 20 years' of experience and has an academic background in marine environmental chemistry and coastal processes. Dan has the ability to understand and interpret complex marine science, communicate this at various levels, and apply outcomes for the benefit of marine project management.



Dr Adam Cohen

Dr Cohen has 25 years' experience in sourcing, scoping and managing a variety of coastal, near shore and offshore marine projects and investigations. Adam has considerable experience in managing specialist teams in the areas of port development, subsea pipelines, offshore oil and gas exploration, ocean outfall design, dredging and land reclamation. Adam has specialist expertise in project management, marine geological survey, marine environmental impact assessment, water quality investigation and coastal processes studies.

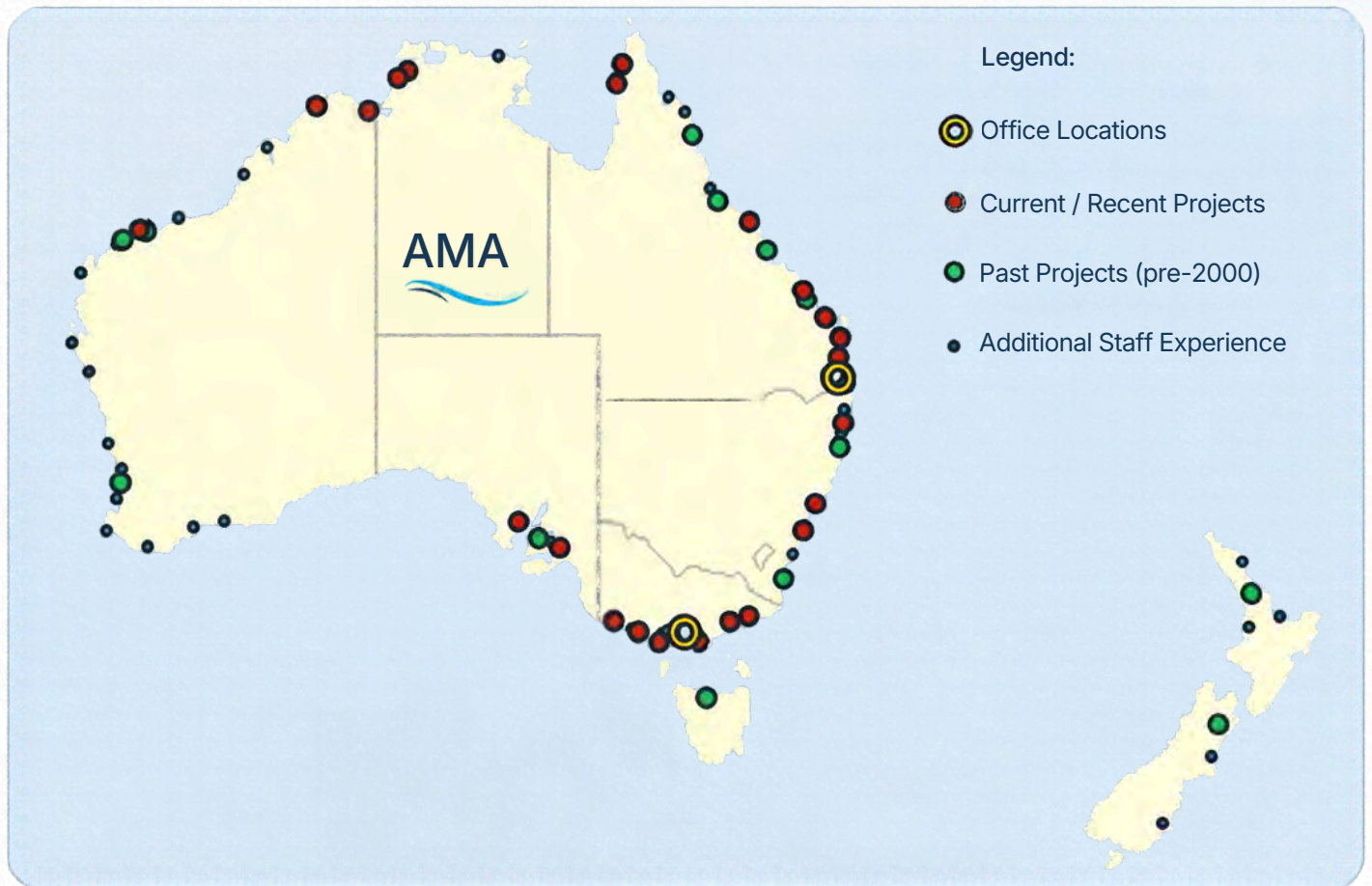


Harry Houridis

Harry has more than 30 years' experience in sourcing, scoping and managing a variety of coastal, near shore and offshore marine projects and investigations. Harry's technical expertise covers a broad spectrum of environmental and approvals related areas from small technical studies to broader, multi-discipline EIA type studies. He has spent much of his career working across the key industry sectors of ports and maritime, hydrocarbons, power, water and mining and more recently in offshore wind.

Refer to our website for further information and detailed CVs.

Geographical Experience



AMA Maritime Consulting projects and experience span the entire geographic spectrum from inner city and regional towns to the most remote locations across Australia. We are currently engaged or have recently completed maritime and maintenance dredging projects throughout Queensland, NSW, Victoria, South Australia, Western Australia and the Northern Territory.

Our staff have also previously undertaken work in Tasmania, New Zealand and further abroad (including Pacific and SE Asia – not shown on map).

We pride ourselves to be able to respond to our client's need wherever that may be geographically to deliver a responsive and efficient service from our convenient office locations.



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