



Capability Statement



Our Expertise

Australasian Marine Associates provides specialist marine environmental engineering consulting services for marine infrastructure projects, including addressing the permitting and licence conditions at both a State and Federal level. Coupled with advanced expertise in dredging and maritime infrastructure development as well as coastal processes and bathymetric mapping capabilities, AMA supplies a fully integrating service for projects that interface with marine and coastal environments.



Australasian Marine Associates offers expertise to support:

- ▶ Dredging and dredge material disposal monitoring and impact assessments
- ▶ Dredge ability assessments and dredge material management
- ▶ Marine infrastructure maintenance and restoration
- ▶ Level 1, 2 and 3 Commercial Diving
- ▶ Water column profiling and metocean data collection
- ▶ Water chemistry and sediment quality analyses
- ▶ Geochemical, geological, geotechnical and geophysical characterisation
- ▶ Bathymetric and seabed mapping surveys
- ▶ Ecotoxicology studies and ecological risk assessment
- ▶ Environmental management and due diligence assessments for coastal development and dredging
- ▶ Hydrodynamic modelling/ coastal processes
- ▶ Ocean Outfall and plume dispersion investigations
- ▶ Design and implementation of remediation strategies for nearshore and offshore environments

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, physical-chemical characteristics, impact assessment, risk mitigation and marine environmental approvals, which provide our clients with opportunities to improve their environmental and engineering practices in all phases of a project's life cycle.

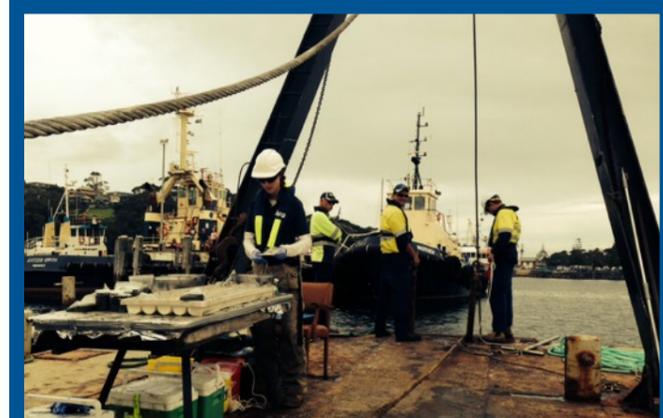
Fields of Expertise



MARINE ENVIRONMENTS



WATER, SEDIMENT AND METOCEAN



MARINE INFRASTRUCTURE

Australasian Marine Associates has the experience and expertise in marine ecological monitoring, to offer a variety of services in a range of different environments including:

- Tropical, sub-tropical and temperate reef ecology
- Estuarine gill netting, bat trapping and seine netting
- Investigations of incident light levels and sedimentation
- 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
- Bathymetry surveys and habitat mapping, including drop camera and towed video

Our team has developed survey and monitoring techniques for both mobile water quality monitoring, as well as fixed site instrumentation, including:

- Mobile water column profiling and water quality sampling
- Fixed site water quality monitoring, using buoy and mooring systems and where, applicable telemetry for gathering data in real time
- Multiparameter systems including CTD, AWAC, ADCP, Wave rider and tide gauge systems
- Sediment sampling using sediment traps, diver coring, piston samplers, grab samplers and drop corers

Our specialists have been involved in the monitoring and management of both small and large-scale projects, requiring dredging, near shore excavation and coastal infrastructure design, including:

- Design and execution of small and large scale dredging programs
- Design and construct of maritime infrastructure including barge ramps, wharfs and jetty infrastructure
- Underwater and overwater marine infrastructure maintenance, including debris clearance and pile and wharf restoration
- Underwater works including level 1, 2 and 3 Commercial Diving, underwater welding and broke and diver assisted dredging

Project Experience

Our specialists have experience working in South America, West Africa, Singapore, the Torres Strait Islands, Papua New Guinea 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, Australasian Marine Associates also offers Commercial Divers, who are certified to AS2299.

Projects recently undertaken by Australasian Marine Associates include:

- ▶ Dredge Feasibility Study, Dredge Management Plan (Capital Works) and Work Methods Statements, Lucky Bay Maintenance and Capital Dredging, T-Ports, South Australia. 2019;
- ▶ Benthic Infauna Survey, Sediment Sampling and Analysis Plan Implementation Report, Dredge Environmental Management Plan and Environment Authority Amendment, Sanctuary Cove Marina, Mulpha Sanctuary Cove, 2019;
- ▶ Plume Water Quality Monitoring, Skardon River Bed Levelling Works, Metro Mining, 2019;
- ▶ Canaipa Passage Maintenance Dredging Sediment Sampling & Analysis Implementation, Gold Coast Waterways Authority, 2019;
- ▶ Dredge Technical Consulting Services, Port of Portland, 2019
- ▶ Sediment Sampling and Analysis Plan and Seagrass Surveys for the Main Channel (North and South), West Crab Island Channel and South Wave Break Island Channel and South Channel Dredging Projects, Gold Coast Waterways Authority, 2019;
- ▶ Sediment Sampling and Analysis Plans, Port Franklin and Port Welshpool, Gippsland Port Authority, 2019.
- ▶ Apollo Bay Harbour Marina Diver Assisted Maintenance Dredging, Colac Otway Shire Council, 2018;
- ▶ Apollo Bay Harbour Marina Sediment Sampling and Analysis Plan, Colac Otway Shire Council, 2018;
- ▶ Apollo Bay Harbour Beach Sediment Sampling and Analysis Plan, DELWP, 2018;
- ▶ Preliminary Environmental Impact Assessment – Tweed & Rous Rivers, Mount Warning Tours, 2018;
- ▶ Labrador Channel & North Channel Maintenance Dredging Sediment Sampling & Analysis Plan, Gold Coast Waterways Authority, 2018;
- ▶ Project Management Services and Dredge Superintendent, Gateway Marina Dredging Works, BH Developments Pty Ltd, 2018;
- ▶ Diver Debris Clearance & Reconstruction of Twofold Bay Woodchip Mill Wharf, Allied Natural Wood Exports, 2016/2017;
- ▶ Humpback Whale Migration Impact Assessment – Gold Coast, City of Gold Coast, 2017;
- ▶ Marley Point Sediment Sampling and Analysis Plan, Supplementary Investigation, Gippsland Ports, 2017;
- ▶ Metocean (current) data collection, SLAMI Project, Darwin, SMEC, 2017;
- ▶ Water Quality Monitoring, Nth Beaches & Palm Beach Shoreline Projects – Dredging & Beach Nourishment, City of Gold Coast, 2017;
- ▶ Skardon River Bed Levelling Plume Monitoring, Metro Mining Ltd, 2017;
- ▶ Bundaberg Trawler & Marina Complex Maintenance Dredging Sap Implementation Report, Gladstone Ports Corporation, 2017;
- ▶ Implementation Report Sediment Analysis Plan for Port Of Gladstone Maintenance Dredging 2017, Gladstone Ports Corporation, 2017;
- ▶ Gateway Marina, Dredge Management Plan, TPK Investments Pty Ltd, 2017;
- ▶ Diver Debris Clearance and Reconstruction of Twofold Bay Woodchip Mill Wharf, Allied Natural Wood Exports, 2016/2017;
- ▶ Biggera Creek Maintenance Dredging Marine Survey, Gold Coast Waterways Authority, Gold Coast, QLD, 2016
- ▶ Project & Construction Management Services for Multiuser Barge Landing Ramp Facility, Ostojic Group, East Arm Wharf, Darwin, 2016;
- ▶ Geotechnical Investigation for Proposed Seawall for Francis Bay, Tasmanian Seafoods, Darwin, NT, 2016.

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