



Coastal and Marine

Capability Statement

As an island nation, Australia is surrounded by diverse coastal environments from sandy beaches to mangrove forests, rocky shores and fringing reefs. Despite being shaped by often harsh physical forces, we are increasingly aware that coastal ecosystems are fragile environments. Even small, subtle changes through human-induced activities can have substantial impacts not only on coastal biodiversity, but on the human environment through impacts on livelihoods derived from fisheries and tourism which rely on the integrity of coastal and marine ecosystems.

Litoria Consulting have staff with PhD and post-doctoral qualification and experience in ecology and environmental science and have knowledge and field experience throughout all of Queensland's bioregions and Northern New South Wales. More than just biologists, Litoria Consulting understands the relationships between physical coastal processes such as erosion/deposition, climate and tides and biological systems such as mangroves, dunes and reefs. Expert interpretation of the complex interaction of abiotic and biotic factors by our environmental scientists provides the basis for identifying coastal hazards and assessing environmental impacts associated with development.

With formal diving qualifications and post-graduate marine research experience, our staff are capable of carrying out specialist marine habitat survey and assessment. Data collection is supplemented by Litoria Consulting's geographical information systems and modelling capability which allows us to rapidly identify key coastal features including tidal planes, acid sulphate soils, coastal management districts, erosion prone areas, fish habitat areas and protected habitats including Ramsar wetlands, World Heritage Areas and marine parks.

In addition to best-practice industry standards, Litoria Consulting also provide clients with solutions and recommendations that are evidence-based and scientifically rigorous, drawing on many years of experience in the environmental consulting field. Such innovation has seen Litoria Consulting become the preferred environmental scientists for some of the largest private and government clients in Australia, with a very strong retention rate.

Services

- Baseline data collection - estuarine and marine fauna, marine plants and habitat assessment
- Marine plant assessment and approvals
- Seagrass, algae and coral monitoring
- Coastal erosion investigation and management
- Port planning and impact assessment
- Coastal hazard identification and planning
- Dune management and rehabilitation
- Climate change adaptation



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