



### Local and Urban Water Management

Development projects need to consider both terrestrial and water management aspects. Ground and surface water management is considered through the preparation of Local Water Management Strategies and Urban Water Management Plans. Natural Area's Consultants have the capacity to contribute to the development of such plans in association with engineers and hydrogeologists. Natural Area's Consultants can assist with describing current conditions at the site (flora, fauna, surface and groundwater), undertaking ground and surface water monitoring and interpreting the results.

### Monitoring, Sampling & Analysis

The sampling of groundwater, surface waters, and soil can reveal the presence of contaminants that need to be managed or can demonstrate the success of management activities. Natural Area have the capability to collect representative samples from appropriate field locations in accordance with requirements of relevant Australian Standards, such as AS/NZS 5667.1.1998 – Water Quality Sampling. Samples collected by Natural Area are stored and transported to NATA accredited laboratories for analysis where required.

Results are then compared with appropriate guideline documents for interpretation and implications for the project. Typical guideline documents include the ANZECC (2000) Fresh and Marine Water Quality Guidelines and the Assessment Levels for Soil, Sediment and Water published by the Department of Environment and Conservation (2010).

Detailed reports can be provided as standalone projects or as part of larger on-going reporting requirements. Reports will include detailed methodology, constraints, results, discussion and implications to the project with management actions if required.

### Wetland and Waterway Management

Natural Area consulting personnel are experienced in assessing the environmental status of wetlands (lakes) and waterways (rivers, including foreshore areas) and providing ongoing management advice. This could include:

- Monitoring and sampling various water quality parameters, and associated interpretation of results and implications for projects
- Advising on rehabilitation needs, including weed management, species lists for revegetation, providing potential designs for restoration and rehabilitation, and implementing on ground works for a particular area
- Developing management plans describing management aims and objectives, along with management strategies such as weed control, rehabilitation, control of pest animal species, protection of natural features.

Contact the Natural Area Consulting Team to discuss your water management or sampling requirements.

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