



Ecology Services

# Clear solutions to complex questions





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Ecosure's integrated ecological services are designed to tackle complex, real-world problems and quickly and cost-effectively help our clients achieve their project goals.

Ecosure's compact management structure encourages our professional ecologists to share ideas and expertise to satisfy the demands of a broad range of clients. Our ecologists comprise skills in botany, plant ecology, animal ecology, landscape ecology and natural resource management. Ecosure has provided ecological services to local state and federal governments, the resources sector, private enterprise, offset brokers and airport authorities.

Ecosure – integrated services providing clear solutions to complex ecological questions.

Here is just a sample of what we can do:

### Ecological assessment and planning

- Ecological assessment reports and flora and fauna survey programs
- Natural area management and rehabilitation plans
- Targeted species surveys and monitoring

### Environmental impact assessments

- Resource sector development approval applications
- Legislation compliance assessments
- Ecological assessment of rehabilitation and restoration

### Environmental offsets

- Site assessment, management plans, monitoring and reporting
- Property maps of assessable vegetation for development applications and offset planning
- On-ground services including revegetation and regeneration



Our Experience

## A sample of our recent projects

### Airport Environment Strategy Reporting

Our client is required by legislation to prepare an Airport Environment Strategy (AES). One purpose of the AES is to ensure that all operations are undertaken in accordance with the legislation and that a framework is established to assess compliance. Included in this process is an annual small mammal survey and quarterly frog monitoring. Ecosure's ongoing task over the last ten years has been to monitor and report on significant species including the common planigale, wallum sedge frog and wallum froglet.

Ecosure has used a number of techniques to undertake these surveys including pit-fall traps and call-playback. In addition, the ecology team have monitored water quality to support their frog monitoring. The accurate and timely reports provided by Ecosure to the client have ensured their ongoing compliance and developed a lasting professional partnership that we expect to continue for many years to come.

### Species of Citywide Significance

Identifying, and agreeing upon, species of plants and animals that are important to a city presents significant difficulties particularly if a robust, rigorous and repeatable methodology is required. This was the challenge presented to Ecosure by south east Queensland local government.

Ecosure began by developing a framework to be approved by a panel of experts. Once agreed, this was populated for every species that had been identified as present within the City. This, however, required the alignment and consolidation of a large number of databases before applying a scoring or weighting methodology. At each stage, inputs were considered by an internal panel of experts within Ecosure before the outputs were assessed by a panel of local experts. This required a great deal of sensitivity to ensure that, through this consultation process, each of the expert's opinions were carefully considered and accommodated.

The result has been widely accepted as exceptional and has provided the client with a definitive and extensive list of the important species in the City. Ecosure is particularly proud of this work and is comfortable that the method that we have developed can be applied to any local government area.

### Coal Seam Gas Pipeline Surveys

Our clients are developing gas fields and constructing a number of long distance high pressure gas pipelines, to take gas from the Surat and Bowen basins to processing plants on Curtis Island. A significant number of environmental approvals are required to satisfy Commonwealth and State regulators. Ecosure provides flora and fauna survey teams to assess the gas fields, gathering lines and main pipeline routes. We report on the occurrence of protected vegetation and species, advise on the optimal re-design of gas well layouts and re-routing of the pipeline to minimise environmental harm. We use the full range of fauna survey methods, including pitfall trapping, bat call analysis, direct observation, Elliot trapping and harp trapping. Our botanists and ecologists are also experienced in threatened plant identification and native vegetation ecology.

These surveys result in route revisions and infrastructure designs that avoid ecologically sensitive locations and protect threatened species, thereby minimising environmental harm. By doing so our clients are granted the approvals they require.



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