

# Daryl Brown



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## KEY AREAS OF EXPERTISE

- Planning Approvals and Appeals
- Stakeholder Consultation
- Environmental Impact Assessments
- Construction Environmental Manager
- Environmental Management Plans
- Heavy Industry Environmental Management
- Project Management
- Agricultural Research and Extension

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## QUALIFICATIONS

- Bachelor of Rural Science (Honours I) 1990; University of New England, Armidale.
- Doctor of Philosophy (Agriculture) 1998, University of Tasmania, Hobart.

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## SUMMARY OF EXPERIENCE

### Director of Envoca Environmental Consultancy (Nov 2009 to present)

Recent projects include:

- Site Environmental Manager for 18 months during the construction of the Musselroe Wind Farm and associated transmission line. This wind farm in north east Tasmania will have an installed capacity of 168 MW. The wind farm was approved at State and Commonwealth levels and had approximately 900 permit conditions and commitments. The site was rich in Aboriginal artefacts and threatened species and required strict environmental controls. The transmission line was approximately 50 km long and traversed regional reserves, prime agricultural land and forestry areas.
- Strategic easement and land acquisition program for Transend, Tasmania.

- Construction environmental management for the Waddamana to Lindisfarne 220 kV transmission line project. This transmission line was approximately 100 km in length through a variety of land uses.
- Initial landholder consultation for the transmission line route selection of the Kyoto wind farm in NSW.
- Initial landholder liaison for the National Broadband Network backhaul routes in Tasmania.
- Collation of a development application and EPBC referral for an 18MW wind farm in South Australia.
- Environmental impact assessment and environmental management of various small transmission line projects for Transend Networks.
- Numerous prefeasibility studies for wind farms sites and transmission lines in Victoria, South Australia, NSW and Queensland.

**Senior Environmental Scientist, Alcoa World Alumina Australia, (June 2007 to Sept 2009)**

The position provides specialist environmental support to the environment teams at Alcoa's 3 alumina refineries and bauxite mine in WA. Specific projects and tasks included:

- Implementation of integrated EH&S software for compliance management and incident management across all sites in Western Australia.
- The sourcing of recycled water for the Pinjarra refineries. This project required extensive negotiations with the Water Corporation and other stakeholders. Secondary treated water is to be treated through Managed Aquifer Recharge, then disinfected and piped to the refineries. The \$40 million project will be the largest water recycling project in WA. I acted as the project manager for this project for one year during the prefeasibility phase.
- Acting Refinery Environment Manager for a period of 2 months.
- A variety of small projects including incident investigations, compliance audits, fugitive dust studies and coordinating the National Pollutants Index reporting.
- Member of the WA Operations Water lead Team responsible for developing a water strategy and identifying areas for improved water use efficiency.

**Environmental Consultant, Hydro Tasmania Consulting (May 1999 to Dec 2006)**

I commenced work with Hydro Tasmania as an Environmental Consultant and progressed to Senior Consultant, then Lead Consultant. The major projects that I worked on are listed below. The client and approximate capital value of the entire project are given in brackets. I also acted in the position of Team Leader for 18 months where I was responsible for managing a team of 10 to 12 consultants. This position entailed all aspects of personnel management as well as the responsibility of marketing the group and meeting revenue budgets.

Catagunya Dam Refurbishment, 2006 (Hydro Tasmania Energy ≈\$20 M).

Project Environmental Manager responsible for preparing an EIA, stakeholder consultation and planning approval.

Ripple Canal Feasibility Study, 2006 (Hydro Tasmania Energy ≈\$1 M).

Project Manager responsible for water quality surveys to determine the source of nutrient contamination and to propose a cost-effective solution for remediation.

Lake Echo Dredging Project, 2006 (Hydro Tasmania Energy ≈\$0.2 M).

Environmental Manager for the survey of the lake, design of sedimentation pond, preparation of an EIA and EMP, and planning approval.

Burnie Smithton Transmission Line, Tasmania, 2004/05 (Roaring 40s Pty Ltd ≈\$30 M).

Project Manager for the preliminary design, community/stakeholder consultation, environmental impact assessment and corridor approval.

- Large community liaison component with 120 landholders, 3 local councils, interest groups, and other infrastructure stakeholders.
- The line passed through residential areas, rural residential zones and prime agricultural land.
- Required negotiations with Transend Networks around the use of existing easements.
- The project went to mediation and eventually to the Planning Appeals Tribunal where there was a very positive result for the client.

Burnett River Dam, Queensland, 2003/2004 (Burnett Water ≈\$220M).

Planning Approvals Manager and Construction Environmental Manager for the Burnett Dam Alliance.

- Responsible for obtaining all outstanding environmental approvals (32 in total) and all aspects of construction environmental management including the preparation and management of the environmental management system, monitoring environmental performance, liaison with regulators and inductions of construction staff.
- Politically and environmentally sensitive project with numerous stakeholders including regulators, lobby groups, water users, local government and local landholders.
- Design and management measures were implemented to reduce impact on threatened aquatic species.
- The dam inundated an area of National Park including threatened vegetation communities and threatened species. There was a significant requirement for off site rehabilitation works as compensation.
- Complex project with bridge and road developments over a broad area in addition to the dam site.

**Cathedral Rocks Transmission Line, South Australia, 2003 (Electranet SA ≈\$10 M).**

Responsible for community/stakeholder consultation, environmental impact assessment, route selection and planning approval.

- Comprehensive stakeholder liaison and route selection resulted in planning approval without objection.
- Innovative design features resulted in minimal environmental impact.

**Cathedral Rocks Wind Farm, South Australia, 2002/03 (Hydro Tasmania ≈\$120 M).**

Environmental Manager prior to construction. Responsible for environmental impact assessment, stakeholder liaison and planning approvals.

- Very sensitive coastal site with pristine heath vegetation.
- Required careful lobbying of local and state government to obtain approval.
- Obtained strong support from the local community.

Other projects for Hydro Tasmania Consulting include:

- Woolnorth Wind Farm, Team Member, EIA and vegetation management plan for the West Coast Wind Farm with particular emphasis on orange bellied parrot habitat.
- Butlers Gorge and Parangana mini hydro developments, Environmental Manager, EIA and development approvals.
- Duke Energy International's Tasmania Natural Gas Project, Team Member, assessment of the impact on agriculture.
- Environmental investigation for the Perth Roads Planning Study, Tasmania

**Technical Officer, Department of Primary Industry Water and Environment (Oct 1998 to May 1999)**

The role of this position was to provide technical input into a programme which sought to reduce the use of pesticides in the Tasmanian apple industry.

**Environmental Officer, Hydro Electric Corporation (Temporary GIS Project, April 1998 to Oct 1998)**

Project tasks included:

- Developing soil conservation guidelines for the design, construction and maintenance of distribution power lines.
- Linking soil conservation guidelines to a state soils coverage on HEC's geographical information system.
- Developing a land slip potential coverage for the state based on a geology coverage and slope.
- Capturing Land Systems data in electronic format.

### **Doctoral Study (July 1994 to March 1998)**

The PhD was on the effect of applied lime and phosphorus on the competitiveness of *Tuber melanosporum* (the French Black Truffle) and other ectomycorrhizal fungi found in Tasmania. There were no papers published from the thesis as it was subject to a commercial embargo.

### **Agricultural Extension Program, Cambodia, (Jan 1993 to March 1994)**

Development Officer responsible for institutional building within the provincial departments of agriculture and training of agricultural extension workers. The project was funded by AusAid and United Nations Development Program. The key roles were:

- Working with the Provincial Department of Agriculture to develop a workable system of agricultural extension.
- Supervising a small team of extension trainers and curriculum development.
- Teaching students basic agricultural extension techniques.
- Conducting demonstrations of appropriate agricultural innovations.
- Capacity building of Provincial Agricultural Department.

### **Extension Officer, Roberts Limited (Feb 1990 to Jan 1993)**

Responsible for increasing the sales of rural merchandise by providing a professional agronomic consulting service to core customers of the company. In October 1992, I was appointed to Senior Extension Officer and assumed responsibility for the co-ordination of the Technical Services Team.

## **OTHER SKILLS AND QUALIFICATIONS**

Short courses that have been completed include:

- Power System Safety Rules – Instructed Person
- Acid Sulfate Soils Short Course (Southern Cross University)
- Australian Institute of Management, Applied Management Development Program
- Apollo Root Cause Analysis
- Internal auditor
- Managing Projects and Professional Services
- Negotiation Skills
- Conflict resolution and the environment (Griffith University)
- Wilderness interpretation
- Train the Trainer
- AVCA accreditation
- ESRI ArcGIS