

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2010 by State and Organisation

Northern Territory

Charles Darwin University

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Approved Project Title **Impacts of deforestation and afforestation on greenhouse gas emissions, and carbon and water resources in the Daly River catchment, north Australia**

2010 \$120,000.00

2011 \$98,000.00

2012 \$90,000.00

Primary FoR 0502 ENVIRONMENTAL SCIENCE AND MANAGEMENT

APAI 1

Partner Organisations

Department of Climate Change, NT Department of Business and Employment, NT Department of Natural Resources Environment, the Arts and Sport, NT Department of Regional Development, Primary Industries, Fisheries and Resources

Administering Organisation Charles Darwin University

Project Summary

Over the last decade, north Australia have been viewed as a potentially exploitable resource, given issues of salinisation, soil acidification, over-allocation of water resources and rainfall declines in south Australian agricultural regions. Improved pastures and plantation forestry are two land uses that may expand in the NT. Clearing of savanna vegetation would be required, with implications for greenhouse gas emissions, soil health, water resources and dry season environmental flows. This project will track greenhouse emissions and water use from uncleared and cleared savanna that has been converted to pasture and timber plantations, providing critical understanding of the environmental implication of such land use change in savanna.