

Dr Simon Hodgkison

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| Current Position | Fauna Ecologist – GHD Pty Ltd |
| Profession: | Environmental Scientist |
| Qualifications: | PhD in Ecology, Griffith University, 2005 Masters of Science, James Cook University, 1998 Post Graduate Diploma of Science, James Cook University, 1996 Bachelor of Science, University of Adelaide, 1995 |

Simon is an ecologist with over ten years experience in ecological research and environmental assessment. Areas of special expertise include the survey and monitoring of terrestrial fauna in tropical and subtropical environments. Simon has skills in the identification and survey of birds, frogs, reptiles and mammals, experimental design, statistical analysis and scientific writing.

Simon is currently working as an ecologist with the international engineering and environmental consultancy firm GHD Pty Ltd. Prior to joining GHD Simon undertook research with the CRC for Tropical Rainforest Ecology and Management at James Cook University (investigating the ecology of threatened rainforest frogs in North Queensland), the CRC for Sustainable Tourism (assessing ecological impacts of tourist visitation in the Gold Coast Hinterland) and the Centre for Innovative Conservation Strategies at Griffith University (assessing spatial patterns of wildlife diversity in urban bushland remnants and golf courses in south-east Queensland).

During his time with GHD, Simon has conducted numerous fauna surveys, impact assessments and developed fauna management plans for large infrastructure developments.

Experience

- ▶ Ten years experience in fauna research and ecological monitoring
- ▶ Two years experience developing fauna management plans, assessing the impacts of development and monitoring management actions.
- ▶ Skills in fauna survey, technical writing, experimental design and data analysis

Research History

- ▶ **Postgraduate Diploma in Tropical Ecology James Cook University 1996 CRC for Tropical Rainforest Ecology and Management** Investigating the diet of the threatened waterfall frog *Litoria nannotis* at Tully Gorge, North Queensland.
- ▶ **Masters of Science, James Cook University 1998 CRC for Tropical Rainforest Ecology and Management.** Researching the diet, daily and seasonal habitat use among the declining rainforest frogs *Litoria nannotis*, *Litoria rheocola* and *Nyctimystes dayi* in Tully Gorge, North Queensland.
- ▶ **Research Assistant Griffith University 2000 CRC for Sustainable Tourism** Researching the impacts of tourist visitation on World Heritage listed rainforests of the Gold Coast hinterland.
- ▶ **PhD in Ecology, 2005 Centre for Innovative Conservation Strategies, Griffith University** Investigating the habitat value of suburban golf courses and identifying ways to maximise the ecological value of small habitat remnants in suburban green space areas.

Fauna Management Plans

- ▶ **Threatened Frog Management Plan – Caloundra Regional Business Industry Park** Monitoring and preparation of a frog management plan to protect threatened wallum frog species (*Crinia tinnula*, *Litoria olongburensis* and *Litoria freycineti*) from an industrial development at Caloundra, Qld.
- ▶ **Kangaroo Management Plan – Western Corridor Recycled Water Project** Monitoring and preparation of a kangaroo management options report to overcome predicted problems associated with entrapment and subsequent overpopulation of eastern grey kangaroos *Macropus giganteus* in a fenced pumping station on the Western Corridor Recycled Water Project, Brisbane, Qld.
- ▶ **Glider Management Plan – Darra to Springfield Transport Corridor (Horizon Alliance)** Targeted glider surveys and preparation of a management plan to protect habitat and allow movement of the sugar glider *Petaurus breviceps*, squirrel glider *Petaurus norfolcencis*, yellow bellied glider *Petaurus australis* and greater glider *Petauroides volans* adjacent to a major transport upgrade Brisbane, Qld
- ▶ **Platypus Management Plan – Darra to Springfield Transport Corridor (Horizon Alliance)** Targeted platypus (*Ornithonychus anatinus*) surveys and preparation of a management plan to protect and rehabilitate platypus habitat downstream from a major transport link in Brisbane, Qld.
- ▶ **Black-throated finch Management Plan – Oak Valley Residential Development** Preparation of a management plan to protect habitat and water resources utilised by the black-throated finch (*Poephila cincta*) adjacent to an approved residential development in Townsville, Qld

Fauna Road Crossing Monitoring and Underpass Design Recommendations

- ▶ **Fauna crossing design and monitoring – Darra to Springfield Transport Corridor (Horizon Alliance)** Recommendations for the design of fauna underpasses, exclusion fencing and glider rope ladders to be constructed on the Darra-to-Springfield Transport Corridor and monitoring roadkill and fauna crossing before, during and after construction to assess efficacy of crossing strategies.
- ▶ **Fauna crossing design and monitoring – Redland Bay Road Upgrade** Recommendations for the location and design of fauna underpasses, exclusion fencing and glider crossings needed on an upgrade of the Redland Bay Road, Brisbane, Qld.
- ▶ **Fauna crossing design and monitoring – Bribie Island Road Upgrade** Fauna surveys and recommendations for the location and design of fauna underpasses and exclusion fencing needed on an upgrade of the Bribie Island Road, Brisbane, Qld.

Ecological Recommendations for Golf Course Designs

- ▶ **Gainsborough Greens Golf Course Redevelopment** Fauna surveys and recommendations to minimise impact and maximise the habitat value of vegetation on a golf course at Pimpama, Qld.
- ▶ **Horton Park Golf Course Development** Fauna surveys and recommendations to rehabilitate previous cane and cattle properties and maximise the ecological value of habitats incorporated into a new golf course design at Maroochydore, Qld.

Linear Infrastructure Alignment Recommendations

- ▶ **Western Corridor Recycled Water Pipeline Project, (Western and Eastern Alliance)** Bird, frog, reptile and mammal surveys to assess the ecological impact and identify preferable alignments for a major recycled water pipeline in South-east Queensland, identifying and protecting habitats for the koala *Phascolarctos cinereus*, wallum froglet *Crinia tinnula*, green-thighed frog *Litoria brevipalmata* and tusked frog *Adelotus brevis*.
- ▶ **Gold Coast Rapid Transit Project** Bird, frog, reptile and mammal surveys to assess the ecological impact and identify preferable alignments for a major new transport link on the Gold Coast, Qld, protecting key habitats for the wallum froglet *Crinia tinnula*, green-thighed frog *Litoria brevipalmata*, grey-headed flying fox *Pteropus poliocephalus* and glossy black cockatoo *Calyptorhynchus lathami*.
- ▶ **Energex Suncoast Power Project** Bird, frog, reptile and mammal surveys to assess the ecological impact and identify preferable alignments for a new high voltage transmission line at Maroochydore, Qld, protecting key habitats for the wallum froglet *Crinia tinnula*, green-thighed frog *Litoria brevipalmata* and tusked frog *Adelotus brevis*.
- ▶ **Northern Busways Project** Bird, frog, reptile and mammal surveys to assess the ecological impact and identify preferable alignments for a major new transport link in northern Brisbane, Qld, protecting habitat for the squirrel glider *Petaurus norfolcencis*.
- ▶ **Queensland Rail Goonyella Line Briaba Deviation (Coal Connect)** Habitat assessments to predict ecological impact and identify preferable alignments for a new coal train line west of Bowen, Qld, identifying and protecting potential habitat for the yakka skink *Egernia rugosa*, northern quoll *Dasyurus hallucatus* squatter pigeon *Geophaps scripta* and black-throated finch *Poephila cincta*.

Baseline Fauna Monitoring

- ▶ **Compass Mining, Rum Jungle Northern Territory** Bird, reptile, mammal and frog surveys to provide baseline information on local fauna at a proposed mine location at Rum Jungle NT.
- ▶ **Ichthys Gas Field Blaydin Point, Northern Territory** Bird, reptile, mammal and frog surveys to provide baseline information on local fauna at a proposed gas production and export location at Blaydin Point, Darwin NT.
- ▶ **Karawatha Wetlands Monitoring** Monitoring birds and frogs at various locations throughout Karawatha State Forest to provide baseline information to assess impact of future encroaching development and water resource use, Brisbane, Qld.

Targeted Fauna Surveys

- ▶ **Koala Surveys for Koala Plan Mapping** Koala surveys in Caboolture, Pine Rivers and Caloundra Shire Councils to revise mapping of the South-east Queensland Koala Plan used to protect koala habitat from development.
- ▶ **Platypus Surveys - Darra to Springfield Transport Corridor** Targeted surveys to confirm the presence of the platypus *Ornithorhynchus anatinus* and assess habitat quality downstream of the Darra to Springfield Transport Corridor, Brisbane Qld.

- ▶ **Glider Surveys – Darra to Springfield Transport Corridor** Targeted surveys to confirm the presence of gliders in habitats adjacent to the Darra to Springfield Transport Corridor, Brisbane Qld.
- ▶ **Squirrel Glider Surveys – Minnipi Parklands Development** Radiotracking the squirrel glider *Petaurus norfolcensis* to assess their local movement and use of habitats in an area proposed for development at Minnipi Parklands, Brisbane Qld.
- ▶ **Acid Frog Surveys – Williamtown Employment Zone** Targeted surveys to confirm the presence of the wallum froglet *Crinia tinnula* and identify the extent of habitat in a proposed industrial development in Newcastle, NSW.
- ▶ **Black-throated Finch Surveys – Alligator Creek Development** Targeted surveys to determine the presence of the black-throated finch *Poephila cincta* at a development site in Townsville, Qld.

Publications

- ▶ Hodgkison and Hero, 2000. Daily behaviour and microhabitat use by the waterfall frog *Litoria nannotis* in Tully Gorge. *Journal of Herpetology* 35, 116-120.
- ▶ Hodgkison and Hero 2001. Seasonal behaviour of *Litoria nannotis*, *Litoria rheocola* and *Nyctimystes dayi* in Tully Gorge, North Queensland Australia. In Nattrass A. (ed) *Frogs in the community*, Proceedings of the Brisbane Symposium, Brisbane Frog Society.
- ▶ Hodgkison and Hero, 2003. Seasonal, sexual and ontogenetic variations in the diet of the 'declining' frogs *Litoria nannotis*, *Litoria rheocola* and *Nyctimystes dayi*. *Wildlife Research* 30, 345–354.
- ▶ Warnken, Hodgkison, Wild and Jones, 2004. The localised environmental degradation of protected areas adjacent to bird feeding stations: a case study of the Australian brush-turkey *Alectura lathami*. *Journal of Environmental Management* 70: 109-113.
- ▶ Hodgkison, Hero and Warnken 2006 Assessing the conservation value of Australian golf courses. *Australian Turfgrass Management*, 2006 pp. 37-40.
- ▶ Hodgkison, Hero and Warnken 2007. The conservation value of suburban golf courses in a rapidly urbanising region of Australia. *Landscape and Urban Planning* 79:323-337.
- ▶ Hodgkison, Hero and Warnken 2007. The efficacy of small-scale conservation efforts as assessed on Australian golf courses. *Biological Conservation* 135: 576-586.