

### PROFESSIONAL PROFILE

Ryan Ellis is an experienced zoologist with broad and detailed knowledge of Western Australian vertebrate fauna, particularly reptiles and mammals. He has worked extensively on vertebrate fauna surveys, monitoring and research projects, as well as short-range endemic (SRE) invertebrate projects across WA in consulting and government roles since 2004. At Phoenix, Ryan is the principal herpetologist and mammalogist for the company. He is responsible for managing and undertaking all aspects of vertebrate fauna projects.

Ryan has extensive experience with conservation significant fauna, having undertaken targeted surveys, monitoring, and/or relocations/translocations of a number of threatened species listed under the EPBC and Wildlife Conservation Acts, as well as Priority species listed by the Department of Parks and Wildlife including, Western Spiny-tailed Skink, Pilbara Olive Python, South-western Carpet Python, threatened Black Cockatoo species, Western Ground Parrot, Night Parrot, Mulgara, Northern Quoll, Golden Bandicoot, Western Barred Bandicoot, Southern Brown Bandicoot, Numbat, Western Pebble-mound Mouse, Mala, Gilbert's Potoroo, Burrowing Bettong, Pilbara Leaf-nosed Bat, Ghost Bat. Ryan is also trained and experienced in the safe handling and relocation of venomous snakes and the ethical euthanasia of native fauna when required.

Ryan has worked across all major bioregions of WA on surveys for mining, port and linear infrastructure projects, including road, rail and walk trail. His work has involved Level 1 and 2, targeted and clearance surveys, relocations, translocations and numerous research and monitoring projects for vertebrate and SRE invertebrate fauna. In a previous role at DPaW Ryan was involved in the Barrow Island Threatened Fauna Translocation Project and associated monitoring projects at Lorna Glen. In 2013–14 Ryan was field manager for a large-scale pre-clearance fauna trapping and translocation program for the Roy Hill Rail project targeting four conservation significant species over approximately 340 km of rail alignment.

Ryan is Research Associate of the Western Australian Museum, Department of Terrestrial Zoology. In this role Ryan is regularly involved in research on WA vertebrate fauna and collaborates with scientists across Australia and overseas. Current research projects include taxonomic review of the Pilbara Olive Python and a number of WA blind snake species (*Anilius*). He also conducts research into the impacts of the Cane Toad on native fauna in the Kimberleys region.

### QUALIFICATIONS

Bachelor of Environmental Science (Wildlife and Conservation Biology), Charles Darwin University, Darwin, NT - near completion

Diploma of Conservation and Land Management, Challenger Institute of Technology, Murdoch

### EMPLOYMENT HISTORY

2010 – Present	Zoologist at Phoenix Environmental Sciences
2010 – 2012	Technical Officer at Wildlife Research Centre, Department of Environment and Conservation (DEC; now Department of Parks and Wildlife - DPaW)

### PROFESSIONAL APPOINTMENTS

2012 – Present	Research Associate – Western Australian Museum
2015 – Present	Technical Advisory Panel Member – Great Victoria Desert Biodiversity Trust

### TECHNICAL EXPERTISE

- Level 1 and 2 vertebrate and SRE invertebrate fauna surveys
- Targeted vertebrate and shore-range endemic (SRE) invertebrate fauna surveys



- Taxonomy: Amphibia, Reptilia and Mammalia
- Threatened vertebrate fauna monitoring and ecological research
- Vertebrate fauna relocation and translocation
- Design and implementation of fauna monitoring and research programs
- GIS: data management, spatial analysis and mapping

#### **SELECTED PROJECT EXPERIENCE**

- Terrestrial flora and fauna surveys for the Great Northern Highway Muchea to Wubin Upgrade, 2015–ongoing
- Terrestrial fauna surveys for the Beyondie Potash Project, Kalium Lakes Potash Pty Ltd, 2015–ongoing (Little Sandy Desert & Gascoyne)
- Terrestrial vertebrate fauna surveys for the Rutila Rail Project, Rutila Resources Pty Ltd, 2014 (Pilbara)
- Field manager for Roy Hill Rail fauna trapping and translocation program, NRW Holdings (for Roy Hill), 2013–14 (Pilbara)
- Level 1 vertebrate and SRE fauna survey for Pannawonica Tenements, Red Hill Iron, 2013 (Pilbara)
- Vertebrate fauna survey for the East Kimberley Biodiversity Project at El Questro Wilderness Park with Australian Geographic, 2013 (Kimberley)
- Level 2 vertebrate and SRE invertebrate survey for the Balla Balla Magnetite Project, Forge Resources, 2012–13 (Pilbara)
- Level 1 terrestrial fauna survey for the Buckland Project haul road, Iron Ore Holdings, 2012–13 (Pilbara)
- Level 2 surveys and targeted vertebrate fauna (Northern Quoll, Johnston’s Crocodile and Yellow Spotted Monitor) surveys for the Cane Toad Impact project at El Questro Wilderness Park with Australian Geographic, 2012–13 (Kimberley)
- Regional targeted Northern Quoll survey for the Buckland Project, Iron Ore Holdings, 2012 (Pilbara)
- Targeted vertebrate fauna (Northern Quoll, Pilbara Leaf-nosed Bat, Pilbara Olive Python, Western Pebble-mound Mouse, Black-flanked Rock Wallaby, Ghost Bat and Lined Soil-crevice Skink) survey for the Buckland Project, Iron Ore Holdings, 2012 (Pilbara)
- Targeted Pilbara Leaf-nosed Bat survey for the Snake Prospect, Iron Ore Holdings Ltd, 2012 (Pilbara)
- *Idiosoma nigrum* monitoring program for Jack Hills, Crosslands Resources, 2012 (Midwest)
- Level 2 and targeted vertebrate fauna (Malleefowl and Western Spiny-tailed Skink) survey for the Mummaloo Iron Ore Project, Top Iron, 2012 (Midwest)
- Targeted Northern Quoll and Pilbara Olive Python survey for the Rocklea Iron Ore Project, Dragon Energy, 2012 (Pilbara)
- Level 2 vertebrate and SRE invertebrate fauna survey of the Bindi Bindi study area, Montezuma Mining Company, 2012 (Gascoyne)
- Level 2 vertebrate and SRE invertebrate fauna survey of the Yanneri study area, Montezuma Mining Company, 2012 (Gascoyne)
- SRE invertebrate fauna survey for the East Pilbara Independent Rail Project, Aurizon Operations, 2012 (Pilbara)
- *Idiosoma nigrum* clearance survey for the Weld Range Project, Sinosteel Midwest Corporation, 2010–12 (Midwest)
- Targeted vertebrate fauna surveys (Burrowing Bettong, Mala, Golden Bandicoot, Bilby, Mulgara) for the Rangelands Restoration Project, Department of Environment and Conservation, 2009–12 (Goldfields)

- Level 2 Vertebrate fauna survey for the Rocklea Iron Ore Project, Dragon Energy, 2011 (Pilbara)
- Targeted vertebrate fauna (South-western Carpet Python) survey and relocation for the Yongah Hill Immigration Detention Centre Project, John Holland, 2011 (Wheatbelt)
- Targeted vertebrate fauna (Burrowing Bettong, Golden Bandicoot, Barrow Island White-winged Fairy Wren and Spinifexbird) surveys and translocations for the Barrow Island Threatened Fauna Translocation Project, Department of Environment and Conservation, 2011 (Pilbara)
- Targeted introduced fauna (Red Fox, Cat, Dog) survey and monitoring for the Kalbarri National Park Introduced Predator Management Project, Department of Environment and Conservation, 2011 (Murchison)
- Level 2 vertebrate fauna survey for the Wonmunna Iron Ore Project, Rico Resources, 2011 (Pilbara)
- Targeted Northern Quoll survey for the Roy Hill Project, Roy Hill Infrastructure, 2011 (Pilbara)
- Level 2 vertebrate fauna survey for the Roy Hill Rail Project – Bonney Downs alignment, Roy Hill Infrastructure, 2011 (Pilbara)
- Targeted Bilby survey, translocation and monitoring for the Rangelands Restoration Project, Department of Environmental and Conservation, 2011 (Goldfields)
- Level 2 fauna survey for the Mount Gibson Biodiversity Project, Australian Wildlife Conservancy, 2011 (Midwest)
- Targeted vertebrate fauna (Western Spiny-tailed Skink) survey for the Mount Gibson Biodiversity project, Australian Wildlife Conservancy, 2011 (Midwest)
- Level 2 vertebrate fauna survey for the FerrAus Eastern Pilbara Rail Project, FerrAus, 2011 (Pilbara)
- Level 2 vertebrate fauna survey for the Fitzgerald River National Park Improvement Project - coastal walk trail, Department of Environment and Conservation, 2011 (South Coast)
- Targeted invertebrate fauna (Graceful Sun Moth) survey for the Roe Highway Extension Project, South Metro Connect, 2011 (Swan Coastal Plain)
- Level 1 vertebrate and SRE invertebrate fauna survey for the Roy Hill Rail Project – Bonney Downs alignment, Roy Hill Infrastructure, 2011 (Pilbara)
- Targeted vertebrate fauna (Southern Brown Bandicoot, Perth Lined Lerista and Oblong Tortoise) surveys and monitoring for the Roe Highway Extension Project, South Metro Connect, 2010 – 2011 (Swan Coastal Plain)
- Level 2 vertebrate fauna surveys for the Lorna Glen Biodiversity Project, Department of Environment and Conservation, 2010 (Goldfields)
- Invertebrate fauna surveys for Roe Highway Extension Project for South Metro Connect, 2010–2011 (Swan Coastal Plain)
- Level 2 vertebrate fauna surveys for the Roe Highway Extension Project, South Metro Connect, 2010–2011 (Swan Coastal Plain)
- SRE invertebrate fauna survey for the Central Pilbara SRE Project, Department of Environment and Conservation, 2010–2011 (Pilbara)
- Level 2 vertebrate fauna survey for the Faure Island Biodiversity Project, Australian Wildlife Conservancy, 2010 (Murchison)
- Targeted vertebrate fauna (Burrowing Bettongs, Western Barred Bandicoot and Shark Bay Mouse) survey and monitoring for the Faure Island Restoration Project, Australian Wildlife Conservancy, 2010 (Murchison)

- Targeted vertebrate fauna (Gilbert's Potoroo and Quokka) survey and monitoring for the Gilbert's Potoroo Recovery Project, Department of Environment and Conservation, 2007 (South Coast)
- Targeted Little Penguin surveys and monitoring for the Penguin Island Fauna Monitoring Project, Department of Environment and Conservation, 2005–2006 (Swan Coastal Plain)
- Targeted Numbat surveys and monitoring for the Numbat Recovery Project, Department of Environment and Conservation, 2005 (South West)
- Targeted Western Ground Parrot surveys for the Western Ground Parrot Recovery Project, Department of Environment and Conservation, 2004– 2006 (South Coast)

#### **PROFESSIONAL TRAINING AND CERTIFICATIONS**

- Bilby Workshop, 2013, DPaW
- Northern Quoll Workshop, 2013, DPaW
- Night Parrot Workshop, 2013, DPaW
- Pilbara Leaf-nosed Bat Workshop, 2013, DPaW
- Western Australian C class Driver's License
- Operate and Maintain a Four Wheel Drive Vehicle - RIIVEH305A, 2013, RAC
- Apply First Aid – HLTF201B, 2012, St John
- Remote Area First Aid – HLTF302B, 2013, St John
- ArcGIS 10.1 Desktop Training, 2013
- Risk Management, 2012, Aveling
- Fatigue Management in the Mining Industry, 2012, Aveling
- Confined Space Awareness, 2013, Aveling
- Construction White Card, 2011, Aveling
- Quarantine Awareness, 2013, DAFF
- Quarantine Approved Persons for Quarantine Approved Premises (Classes 2 to 9), 2013, DAFF
- Euthanasia Workshop, 2013, Murdoch University
- Venomous Snake Capture and Release, 2010, Armadale Reptile Centre
- Basic Wildlife Careers Course, 2008, DEC
- Category 5 Herpetofauna Keepers License, 2008, DEC

#### **AFFILIATIONS**

- Australian Society of Herpetologists (ASH), full member
- Australian Mammal Society (AMS), full member
- Birdlife Australia (BA), general member
- Australasian Society for the Study of Animal Behaviour (ASSAB), full member
- Society for the Study of Amphibians and Reptiles (SSAR), full member
- Society of Australian Systematic Biologists (SASB), full member
- Australian Wildlife Management Society (AWMS), full member
- American Society of Ichthyologists and Herpetologists (ASIH), full member
- Herpetologists League (HL), full member