

Project 1 - Ecohydrologic functioning of ephemeral streams

Location: The project will be based at Flinders University, Adelaide, SA

Required area of expertise/background: An Honours or MSc degree in Hydrology, Environmental Sciences/Engineering, or relevant fields with good understanding of groundwater modelling, geoscience, physics or mathematics is likely to be suitable.

Project: This project aims to increase understanding of how surface-groundwater interactions sustain vegetation associated with ephemeral streams. One of the biggest problems faced by mining and regional development in arid regions is how to protect ecological and heritage values of ephemeral streams by minimising impacts of water abstraction and surplus discharge. The project will use environmental tracers coupled with assessment of vegetation water use and numerical modelling, to assess resilience of ephemeral streams to changes in flows resulting from mining activities and climate-related shifts in recharge. Outcomes of the project will provide appropriate context for evaluating and adapting management to conserve scarce water resources.

2017 RTP full time RTP Stipend Rates* (\$26,682). Approximate annual top-up amount: \$12,000

Principal Supervisor:

[Prof Craig Simmons](#) - Flinders University

Co Supervisors:

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