

Interactive comment on “A hydrological framework for persistent river pools in semi-arid environments” by Sarah A. Bourke et al.

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Thank you for your comments on the manuscript. With this note we wish to briefly clarify the basis for the framework and the focus of the paper. We look forward to responding to your comments in full when we submit a revised manuscript on completion of this discussion phase. The framework proposed was developed by applying well-established principles in groundwater – surface water interaction and spring occurrence to the question of persistent pools along intermittent rivers. These concepts are robust and well accepted by the scientific community (see comments by Rau et al within this discussion). We acknowledge that further citation and reference to established literature would be beneficial and will gladly do so in a revised manuscript. The framework is also consistent with data that has been collected during field inves-

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tigations at 22 pools in north-western Australia. We intentionally focused the paper on the conceptual framework, which is a summary of learnings from these investigations. Site-specific was kept to a minimum so as to keep the manuscript from being too long (there are 9 Figures in the submitted manuscript). We are certainly able to include more site-specific data if that is beneficial to the reader and can do so in our revised manuscript.

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