

Water Dependent Ecosystem Monitoring

Annie Bond

Monitoring, Evaluation and Reporting Officer

Why are we monitoring?

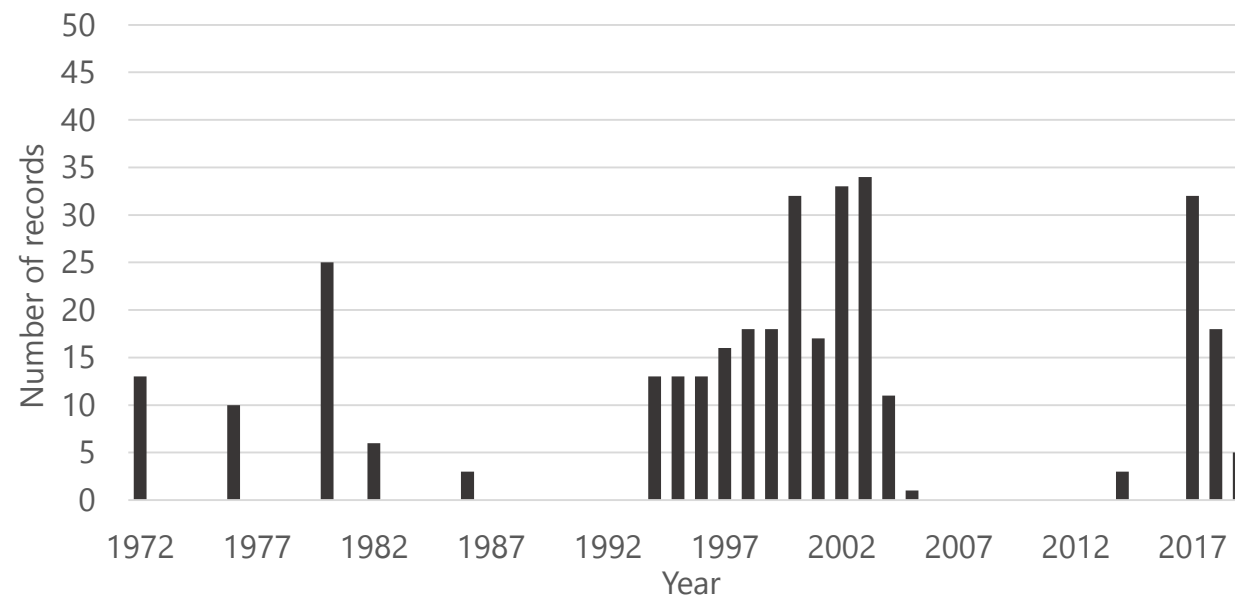
- Inform the WAP review
- Understand what's happening to water resources
- And flow on effects for ecosystems

- Monitoring program designed for community participation
- Frogs, pools (macro-invertebrates) and River Red Gums

Frogs – what we know



Frog records in the Clare Valley 1972-2019



1. Common Eastern Froglet, image Anthony Paul, iNaturalist, [link to licence](#)
2. Spotted Marsh Frog, image Sam Gordon, iNaturalist, [link to licence](#)

Frog survey

- Invitation to help
- FrogID app
- Late Sept/Early Oct
- Systematic survey (3 visits each at 20 sites)
- Flexible survey (creeks, dams, anywhere)
- Introductory session and wrap up session



Pools – what we know

2008 condition report
for Skillogallee Creek

very poor condition



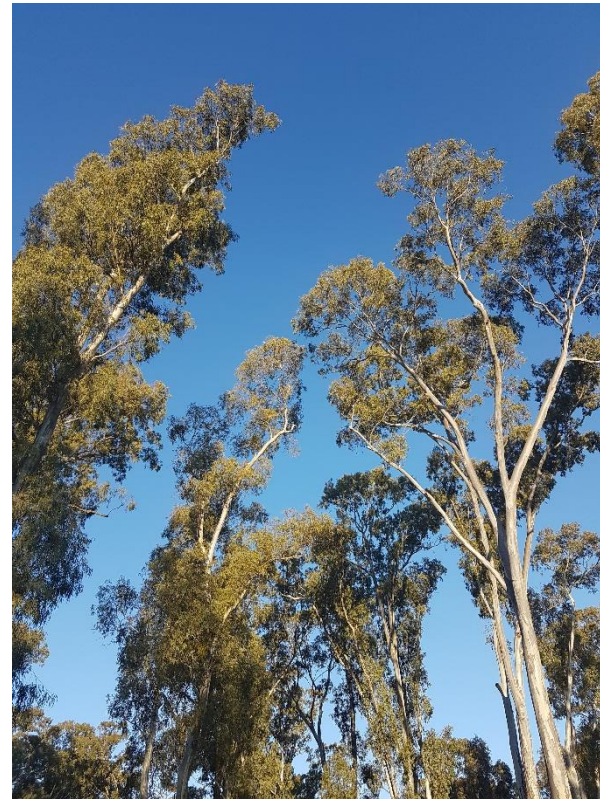
- channel mostly dry in November
- low diversity (24 macro-invertebrate species)
- 70% tolerant of pollution no rare or sensitive species
- moderately fresh (2,000 mg/L)
- very poorly oxygenated (1.7% saturation)
- moderate to high nitrogen (0.6 mg/L) and phosphorus (0.05 mg/L)

Pools survey

- Invitation to help
- Established method (EPA)
- Macro-invertebrates, water quality, vegetation
- Survey approx. 15 sites
- Late October TBC



River Red Gums – what we know



Red Gum health survey

- Survey of River Red Gum health
- Approx. 20-30 sites
- End of summer (March/April)
- Invitation to assist with photo-points

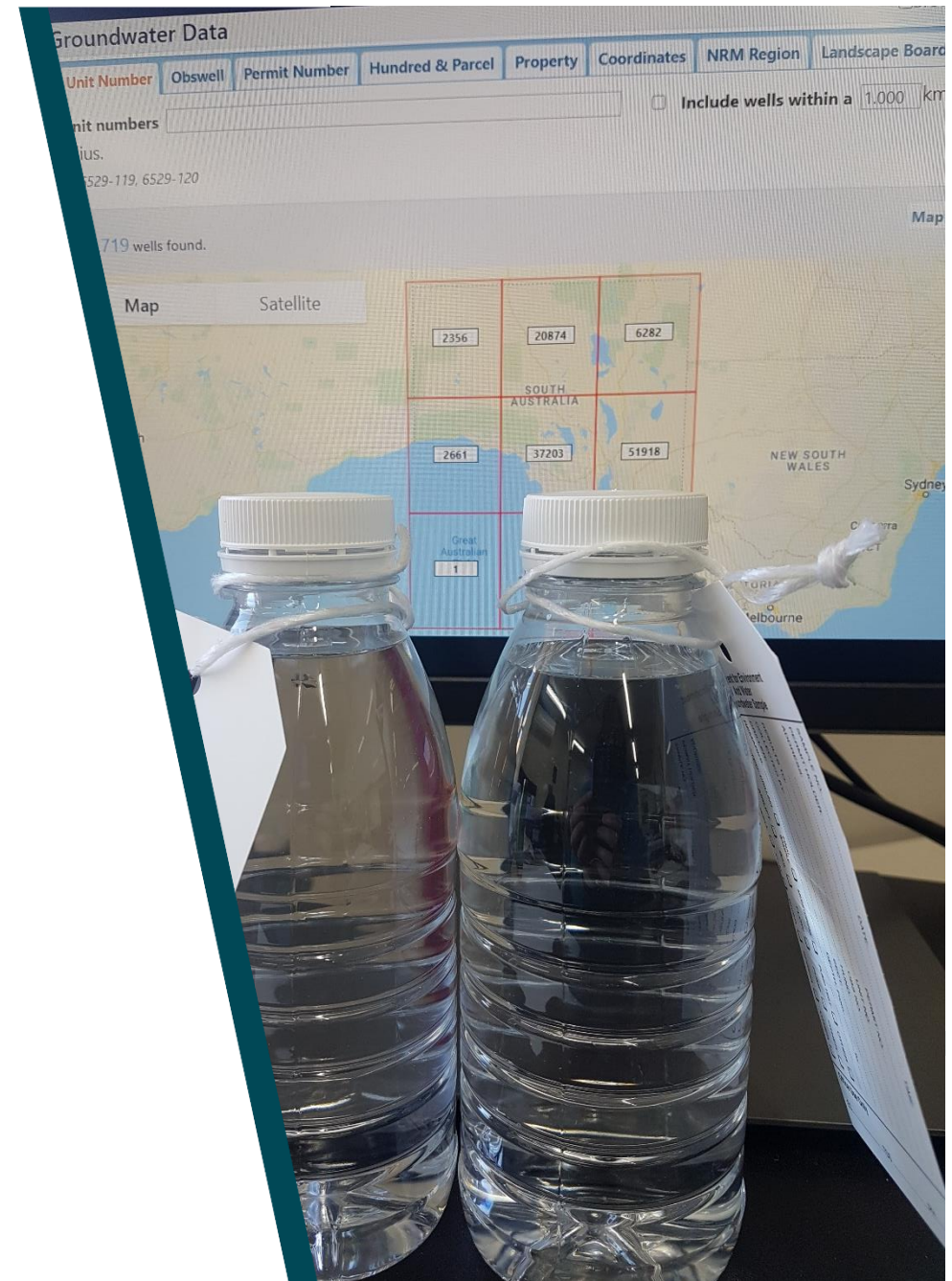
Community monitoring of pools and watercourses in the Clare Valley


<https://biocollect.ala.org.au/acsa/project/index/bf63c385-ddf8-4d60-98f5-a906c6eedf4a>



Well salinity samples

- Received approx. 12 samples from Clare Valley
- Long time since last recorded test for many
- EC range 1424-3830 (uS/cm)





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