Module 8: Australia’s Natural Resources Case Studies

# Renewable resource case study: The Great Artesian Basin

Use the video, [Water Down Under: The Great Artesian Basin Story](https://www.youtube.com/watch?app=desktop&v=VB4HFHDdzUc) (duration 32:43) and the following resources to answer the questions about water from the Great Artesian Basin.

NOTE: These questions can be applied to a different renewable resource if you prefer.

**Questions:**

1. Describe how the Great Artesian Basin formed.
2. Explain how water from the Great Artesian Basin is located and extracted.
3. Explain why the sustainable use of water from the Great Artesian Basin is essential for humans, agriculture and the environment.
4. Assess the effectiveness of past and present management strategies relating to the Great Artesian Basin.

**Resources:**

* [Sedimentary rocks (Great Artesian Basin)](https://wetlandinfo.des.qld.gov.au/wetlands/ecology/aquatic-ecosystems-natural/groundwater-dependent/sedimentary-rocks-great-artesian-basin/springs.html#modsedi) Queensland Department of Environment and Science
* [Great Artesian Basin](http://www.ga.gov.au/scientific-topics/water/groundwater/gab). Geoscience Australia
* [Hydrogeological Atlas of the Great Artesian Basin](https://d28rz98at9flks.cloudfront.net/79790/79790_GAB_Atlas.pdf). Geoscience Australia
* [Water in, water out: assessing the future of the Great Artesian Basin](https://theconversation.com/water-in-water-out-assessing-the-future-of-the-great-artesian-basin-13104). The Conversation