

QMRC RESEARCH

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Our research aims to establish clear, evidence-based, best practice standards for rehabilitation and management of mined land in Queensland.

Categories of technical and scientific mine rehabilitation publications are listed below. Publications will be added to our website as they become available.

Mine waste cover systems

Effective management of mine waste requires an understanding of the interaction between local climate, the geochemical properties of waste material and the surrounding environment. Cover systems are an important part of controlling this interaction and supporting the rehabilitation of mine waste held in tailings storage facilities, waste rock dumps or heap leach piles.

Publication

- [Effective cover systems for waste rock dumps and tailings storage facilities, February 2022](#) (PDF, 311KB)
This research brief introduces the work we plan to undertake and stakeholder advice on mine waste cover systems.

Residual voids

Open cut mining practices have historically left open mining pits (referred to as 'residual voids') in place at the end of mining. These voids can become pit lakes and can pose ongoing risks that may need to be managed. Voids can also be used to generate opportunities for post-mining uses, including irrigation of crops, provision of stock drinking water, pumped storage hydropower, aquaculture or development of recreational areas.

Publication

- [Best practice approaches for rehabilitation and management of mine voids, March 2022](#)
This research brief introduces the work we plan to undertake and stakeholder advice on mine voids.

Post-mining land uses

Mine rehabilitation is the return of disturbed land to a safe, stable, non-polluting condition that supports a post-mining land use (PMLU). In Queensland, the most commonly proposed rehabilitation PMLUs are grazing and native ecosystem. However, there are a range of other PMLUs, as well as post-rehabilitation opportunities for future landholders, that could be explored to maximise social, economic and environmental outcomes from rehabilitation in Queensland.



Publication

- [Development of best practice advice to support the transition to post-mining land uses in Queensland, September 2022](#) (PDF, 275KB)
This research brief introduces the work we plan to undertake and stakeholder advice on post-mining land uses.