

Key Resources – Management and Reuse Opportunities for Tailings

References to leading practice guidance and other sources of relevance to the topic

- Department of Industry, Tourism and Resources (2016). 'Tailings Management'. Leading Practice Sustainable Development Program for the Mining Industry. Australian Government. Available at <https://www.industry.gov.au/data-and-publications/leading-practice-handbook-tailings-management>
- Global Tailings Review. Available at <https://globaltailingsreview.org/global-industry-standard/>
- Global Industry Standard on Tailings Management <https://globaltailingsreview.org/>
- The Good Practice Guide for Management of Acid and Metalliferous Drainage (AMD). Available at http://www.mrt.tas.gov.au/land_and_resource_management/management_of_acid_and_metaliferous_drainage_in_tasmania

Relevant Australian regulation / legislation

- Commonwealth Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act)
- Australian state and territory mining regulations, e.g., Tasmania's Mineral Resources Development Act 1995. Available at <https://www.legislation.tas.gov.au/view/html/inforce/current/act-1995-116>
- Australian state and territory environmental regulations, e.g., Tasmania: <https://epa.tas.gov.au/regulation/site-information>

Links to case study examples

- Hellyer mine, Tasmania tailings processing: http://www.premier.tas.gov.au/releases/hellyer_gold_to_be_processed_again
<https://nqminerals.com/hellyer/>
- Century Mine, Queensland, tailings reprocessing: <https://www.newcenturyresources.com/century-mine-project/>
- Mt Morgan, Queensland, tailings reprocessing: <https://heritageminerals.com.au/>
- Mt Carbine, Queensland, tailings reprocessing: <https://www.eqresources.com.au/site/what-we-do/mt-carbine-project/retreatment-project>

Academic (open access) papers on the topic

- Anita Parbhakar-Fox, John Glen, and Bonita Raimondo (2018). A Geometallurgical Approach to Tailings Management: An Example from the Savage River Fe-Ore Mine, Western Tasmania. *Minerals* Vol 8 (10). Available at <https://www.mdpi.com/2075-163X/8/10/454/htm>

- Anita Parbhakar-Fox, Sarah Gilmour, Nathan Fox, Paul Olin (2019). Zeehan slag reprocessing: Geometallurgical Characterization of Non-Ferrous Historical Slag in Western Tasmania: Identifying Reprocessing Options. *Minerals* Vol 9 (7). Available at <https://www.mdpi.com/2075-163X/9/7/415>
- Franks, Daniel M., Stringer, Martin, Torres-Cruz, Luis A., Baker, Elaine, Valenta, Rick, Thygesen, Kristina, Matthews, Adam, Howchin, John, and Barrie, Stephen (2021). Tailings facility disclosures reveal stability risks. *Scientific Reports* 11(1) 5353 5353. <https://doi.org/10.1038/s41598-021-84897-0>
- Lebre, Eleonore, Corder, Glen, and Golev, Artem (2017). The Role of the Mining Industry in a Circular Economy: A Framework for Resource Management at the Mine Site Level. *Journal of Industrial Ecology*. Vol. 21 (3). Available at <https://onlinelibrary.wiley.com/doi/10.1111/jiec.12596>
- Lebre, Éléonore, Corder, Glen D., and Golev, Artem (2016). Sustainable practices in the management of mining waste: a focus on the mineral resource. *Minerals Engineering* Vol 107. Available at <https://www.sciencedirect.com/science/article/pii/S0892687516304071?via%3Dihub>