

# Mine Closure Process

Ensure the site is left in a stable, non-polluting state indefinitely



## What is a Closure Plan?

A closure plan must be designed and approved before mining starts. The closure plan must prevent or minimise adverse long-term environmental, physical, social and economic impacts, and create a stable landform.

A more rigorous closure process for all mines opened after 2012 is now applied to mining companies in SA to manage the optimal closure of a mining operation which ensures protection of the environment and community.

The plan requires significant proof and ongoing environmental monitoring to ensure that a mine site is left suitable for other uses.

Terramin's Closure Plan for the Strathalbyn mine and processing facility was the first approved by the SA Government under the new requirements.

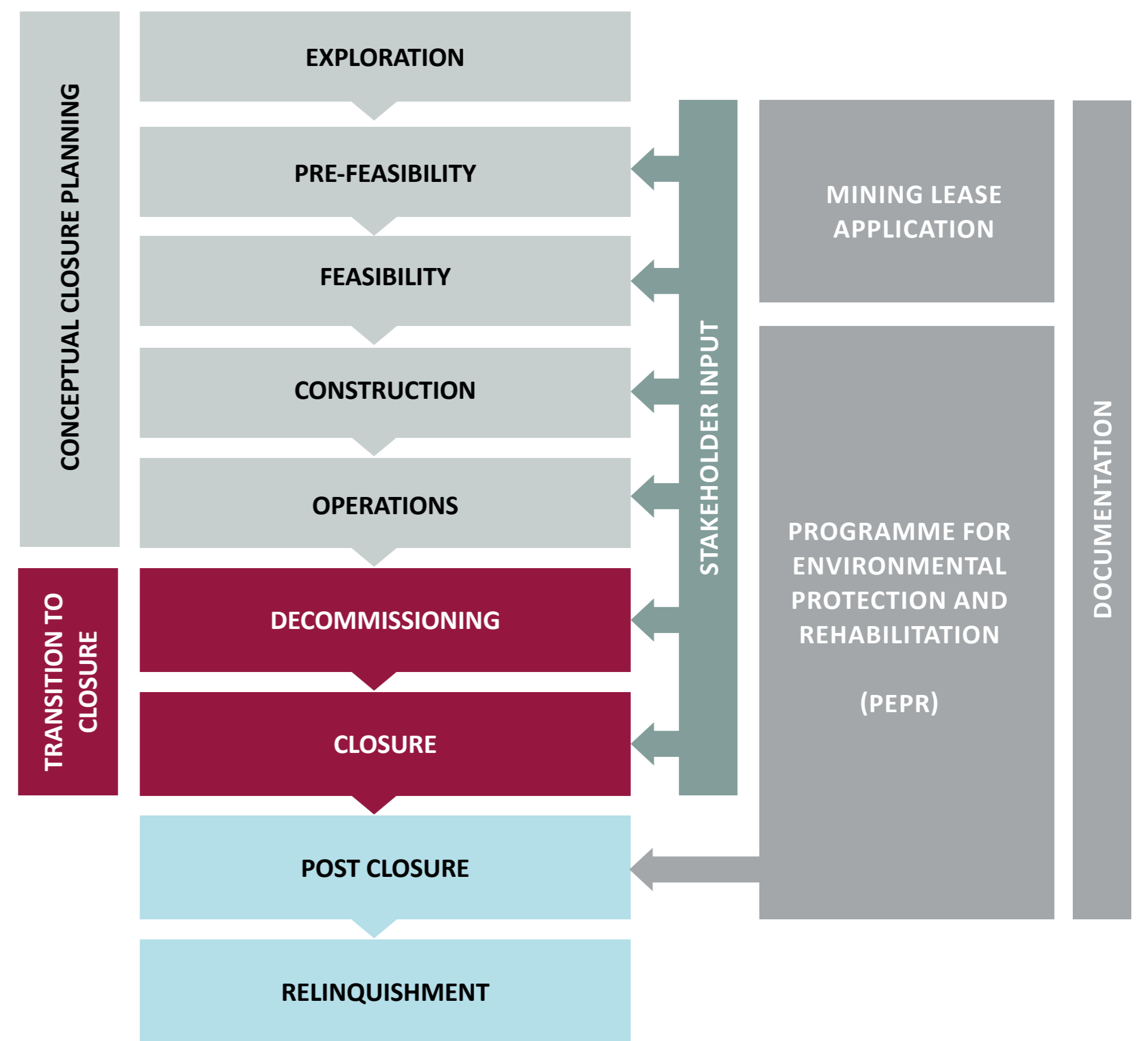
## A Closure Plan Includes:

- Potential land use options.
- Final landform.
- Proposed vegetation covers (including native vegetation that will not be disturbed due to proposed mining operations).
- Any infrastructure that will remain on site and will become the responsibility of the future landowner, including sheds or dams.
- Location of rehabilitated areas showing surface contours and revegetation.
- Expected final water level and water quality of mine voids.
- Predicted final groundwater levels.
- Relevant and backfilled remaining underground workings.



## Proposed Closure Outcomes

- Ensure underground voids are filled so that subsidence cannot occur at any time after mine closure.
- Ensure that the decline under Bird in Hand Road is backfilled to ensure in perpetuity integrity of the road.
- Ensure the site is left in a stable, non-polluting state indefinitely.
- No contamination and pollution is caused by waste products and hazardous materials used in the mine operations.
- Ensure that soil quality and quantity are protected.
- No adverse impact to the supply or quality of water by the mining operations to existing users and water dependant ecosystems.
- No contamination of natural water drainage systems, streams and rivers, groundwater, land and soils occurs either on or off site resulting from permanent disposal or temporary storage of mine ore or waste material



## Mine Closure Checklist

- Post closure land use agreed upon** – in Mining Lease Application.
- Closure design work finalised** – in Mining Lease Application and Program for Environmental Protection and Rehabilitation stages.
- Closure announced.**
- Underground workings and vent raises backfilled** to ensure site is geotechnically stable in perpetuity.
- Site infrastructure removed** – ROM silo, water treatment plant, cement batching plant.
- Closure earthworks commence.** Site shaped and contoured where required, remaining hardstand areas levelled for reuse.
- Site contamination assessment completed** – no risk to groundwater, surface water, soil or air quality into the future from the mining operation.
- Apply to extend** Native Vegetation Heritage Agreement area over remnant Eucalypt patch.
- Site offered for sale** as a commercial opportunity.