

TSF Decommissioning Plans will be developed for each TSF managed by KCGM. The Decommissioning Plans will include specific information relating to the rehabilitation and closure of each TSF.

Development of the TSF Decommissioning Plans will encompass the following actions where appropriate:

- Reviewing the information available on the TSF, including the following elements:
  - Geochemical properties of the tailings (e.g. acid/base chemistry, multi-element analysis);
  - Construction history, operational records and geotechnical aspects (construction materials used, methods of construction, factors of safety, stability, design storm considerations);
  - Groundwater attributes (groundwater levels and quality, mounding, seepage, flow direction);
  - Surface hydrology (presence of nearby watercourses, post closure conditions to be achieved);
  - Environmental and revegetation aspects (status of rehabilitated and closed facilities, properties of tailings in relation to plant establishment and growth, dust impacts, environmental risk, potential cover materials available for closure and this properties); and
  - Monitoring conducted to date.
- Reviewing the success of the rehabilitation previously undertaken on the TSF;
- Reviewing the success of surface water management systems previously constructed on the TSF;
- Determining the availability of rehabilitation material;
- Identification of closure issues;
- Sampling (if required) and investigations to define, identify and resolve closure issues. Sampling may be undertaken to determine:
  - Tailings and cover profiles:
    - Profile morphology
    - Soil structure
    - Semi-quantitative assessment of root penetration where applicable
  - Physical parameters:
    - Texture
    - Water content
    - Structure stability
  - Chemical characteristics
    - pH and electrical conductivity
    - Plant-available macro-nutrients
    - Exchangeable cations, sodium adsorption ratio
    - Heavy metals (depending on ore composition data)
- Developing a closure design to minimise the risk of erosion and dusting of the tailings material. This plan will need to specify the following:
  - Capping material, depth and grade for the TSF surface
  - Detail of any other treatment required for the TSF surface (i.e. capillary break, partial liner for control of seepage, overflow weir for removal of excess ponded water, domed shedding cap to minimise water infiltration)
  - Justification for TSF surface capping chosen (i.e. results from seepage modelling)
  - Capping material, depth and grade for the TSF embankments
  - Detail of any other embankment treatment required (i.e. capillary break, geotextile membrane)
  - Justification for TSF embankment treatment chosen

- Drains required for surface water management. Construction of these drains will need to be included in the construction of the TSF lifts
- Developing a rehabilitation prescription based on the materials available;
- Modelling of the local aquifer to predict the likely timeframe for ongoing seepage management; and
- Developing a surface water management design.