

Executive Summary – Mine Openings and Closure Plan

CanZinco's approach general approach to closure and reclamation of the Nanisivik Mine site follows the "Mine site Reclamation Policy for Nunavut. Accordingly, our guiding principle is to "ensure the impact of mining on the environment and human health and safety is minimized".

The general objectives for the Mine Openings Closure plan include the following:

- To meet the closure and reclamation requirements of the Water License and Land Leases;
- To return the site to a condition of similar environmental productivity and land use that existed prior to development of the mine facilities;
- To minimize the risk to the environment and human health and safety posed by the mine openings; and,
- To eliminate the requirements for long term post-closure and maintenance.

Portals

The general closure design concept for mine portals involves constructing a portal plug comprised of rock fill into each of the portals. The portal plug will satisfy the design criteria by

- preventing access to the underground workings,
- providing some support for the portal crown pillars, and
- covering sulphide exposures on high walls adjacent to the portals to mitigate the potential for acid generation.

The portal plug will extend into the portal a distance equivalent to the height of the opening (5 metres for most of the Nanisivik portals). If shale is used, the portal plug will extend out of the portal and be contoured to a maximum grade of 3:1. The shale surface will then be capped with 0.25 m of armour material (local sand and gravel).

If waste rock is used to fill the portal, then 1.95 m (minimum thickness) cap of shale will be applied to the outside face of the waste rock, contoured to a maximum grade of 3:1 followed by a 0.25 m layer of armour material.

Raises

The general closure design concept for raises involves removing the surface structure and backfilling each of the raises with rock fill to within 1.5 metres of surface. The remaining portion of the raise will then be backfilled with shale to surface. An additional 1.95 metres of shale and 0.25 metres of armour material will be applied at surface to accommodate minor amounts of surface subsidence and to ensure the rockfill within the plug remains in a frozen condition year round.