

Appendix E11

Open Pit – Rock Storage Facility Reclamation Criteria

Memorandum



DATE: January 21, 2011
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SUBJECT: KSM Revised RSF Closure Criteria

The purpose of this memorandum is to present the rationale for developing closure criteria of Rock Storage Facilities (RSFs). The objective of dump reclamation is to meet current conditions where possible. Treeline is approximately 1100 m elevation. Therefore the application of cover material and revegetation of only portions (benches and potentially slopes) of the RSFs below 1100m would be attempted. The post-mine land use for areas up to 1100 m elevation will be forest/sub-alpine forest/grass/shrub habitat and areas at elevations greater than 1100 m will be escape terrain for mountain goat/bighorn sheep. The tops of Mitchell and McTagg RSFs will be used for water treatment sludge disposal cells.

Closure options for the Mitchell, Sulphurets and McTagg RSFs and the amount of till required for each option are summarized below:

McTagg RSF

Option A: Reslope below 1100m

- slope angle 26 degrees
- ~50m slope length
- 0.6m till covering the entire slope below 1100m
- 1,140,000 m³ of till

Option B: No reslope

- 15 m lift
- 8 m bench
- 0.6 m till only of the bench
- 160,000 m³ of till

Sulphurets RSF

Option A: Reslope below 1100m

- slope angle 26 degrees
- ~50m slope length
- 0.6m till covering the entire slope below 1100m
- 1,020,000 m³ of till

Option B: No reslope

- 15 m lift
- 8 m bench
- 0.6 m till only of the bench
- 270,000 m³ of till

Mitchell RSF West Face

- Reslope at 26 degrees
- 50 m slope length
- 0.6m till on entire slope
- 600,000 m³ of till

Upper Mitchell RSF

- Till on benches only
- Reclaim only below 1100m
- ~50 m lifts
- 35 m benches
- 0.6m till on benches
- 90,000 m³ of till

The amount of till required for closure ranges from 1,120,000 to 2,850,000 m³, depending on which closure alternatives are selected. This range of till volume will need to be salvaged from the mine area footprint and stockpiled during operations or be sourced from outside the mine area after closure.