

Factors controlling the release and attenuation of contaminants in a sulfidic tailings impoundment

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Description: -

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Notes: 13

This edition was published in 1993



Filesize: 14.107 MB

Tags: #Chapter #2

Mobility and retention of trace elements in hardpan

However, re-mining can also expose pyritic overburden strata and so can actually degrade water quality unless supplemental abatement measures, such as alkaline addition, are used Hawkins, 1998. Characterization of groundwater conditions is required to evaluate constituent fate and transport, to design dewatering operations, assess compliance with regulatory criteria for designated uses e. The most significant attribute of the slurry's transformation from Stage 1 to Stage 4 is the increase in the dry density of solids.

The role of hardpan formation on the reactivity of sulfidic mine tailings: A case study at Joutel mine (Québec)

In this case, we understand the process of NP depletion and with the appropriate data, the depletion times can be estimated even if test results did not exhibit depletion. Typically, a daily or monthly time step is applied.

Chapter 4

Therefore, the amount of iron sulphide present in an ore deposit or mine waste plays a crucial role in determining the characteristics of the mine drainage. Therefore, careful planning is necessary to avoid a potential long term liability associated with low grade ore stockpiles. Since about 1990, the method has been used to place tens of millions of cubic meters of tailings in an environmentally acceptable manner.

The role of hardpan formation on the reactivity of sulfidic mine tailings: A case study at Joutel mine (Québec)

Sedimentary pyrite formation: An update. Experience has shown that tailings will freeze on cold sites, such as at the Nanisivik Mine, Nunavut, Canada Claypool et al. Microbial community in a porphyry copper tailings impoundment and their impact on the geochemical dynamics of the mine waste.

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