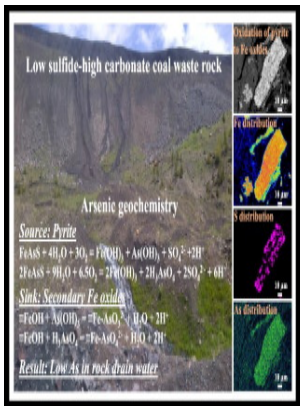
Runoff fraction and pollution levels in runoff from a waste rock dump undergoing pyritic oxidation

s.n - Chapter 6



Description: -
-Runoff fraction and pollution levels in runoff from a waste rock dump undergoing pyritic oxidation
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Notes: 13
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Tags: #Runoff #fraction #and #pollution #levels #in #runoff #from #a #waste #rock #dump #undergoing #pyritic #oxidation

Variations in hydrochemistry, trace metal concentration and transport during a rain storm event in a small catchment

Sulphur separation was used at a mill that processed nickel sulphide ore in Canada. In: Proceedings American Society for Surface Mining and Reclamation, Gillette, WY, 159-171. Detailed design manuals, such as MEND 2001 , MEND 2004a and DWAF 2007 , are provided in the reference section.

Rehabilitation Measures at the Rum Jungle Mine Site

Based on the results and considering previous works, it appears that ionic potential plays an important role in the geo-environmental behavior of REEs of adsorption tendency, mobility potential and ionic substitution. Levels of dissolved species are controlled by their rates of release and the frequency and amount of precipitation.

Chapter 6

The objective of the partial water cover is to minimize the higher risk of structural failure associated with having a water cover and pond adjacent to the embankment wall, while maintaining saturation through enough of the waste to limit the maximum extent of oxidation that will occur. A Review of Procedures for Surface Mining and Reclamation in Areas with Acid-Producing Materials.

Variations in hydrochemistry, trace metal concentration and transport during a rain storm event in a small catchment

Co-disposal is used in South African coal operations where coal slurry is placed within a dam constructed of coarse reject. Potential sources of alkaline material should be checked by a complete analysis see Chapter 5 to evaluate the possibility of adverse effects on leachate water quality. The committees approach included empirical estimates of acid production for a series of assumptions.

The reclamation of heaps used for acid leaching

Alkaline cover materials, such as limestone, placed over PAG materials can increase alkalinity of infiltration, thereby providing pH control see

Section 6. Soil covers for sloped surfaces of mine waste rock and tailings. The committee met on 6 occasions and presented their best estimate of potential long-term costs and the net present value of a bond for several scenarios.

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The time to deplete neutralization potential NP and to the onset of low-pH conditions is an obvious example of such delays. Methods to identify and reduce potential surface stream water losses into abandoned underground mines.

Rehabilitation Measures at the Rum Jungle Mine Site

Use of the partial water-cover method must consider climate, topography, hydrology and hydrogeology, the residual neutralizing capacity of unoxidized tailings, and the water characteristic retention curve of the tailings material. In this treatment, waste from aluminum smelters, which generally has a high pH, is mixed with either the acidic waste rock or an acid drainage solution. The primary objective of such covers is to reduce net infiltration.

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