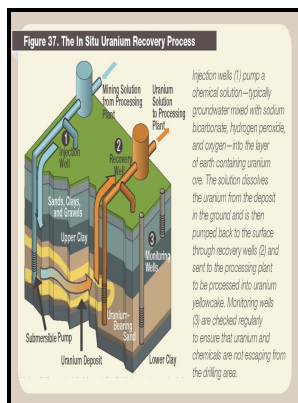


Modeling in situ copper leaching in an unsaturated setting

U.S. Dept. of the Interior, Bureau of Mines - Overview



Description: -

- Soil porosity.
Solution mining.
Copper mines and mining. Modeling in situ copper leaching in an unsaturated setting

- 9386.

Report of investigations (United States. Bureau of Mines) ; 9386

Report of investigations ; Modeling in situ copper leaching in an unsaturated setting

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Soil factors affecting mycorrhizal use in surface mine reclamation [microform] / by Michael R. Norla...

Early involvement is needed to establish the hazard considerations for risk assessment see Section 3. Physical properties of the testing materials e. SUMMARY The quantitative description of chemical leaching in soil, long a focal point for soil science research efforts, is being pursued with increased intensity.

In

Reagents may be added to increase strength or improve environmental stability before backfill. Natarajan, in , 2018 Methods in Biohydrometallurgy Methods in biohydrometallurgy are illustrated in terms of commercially relevant bioleaching techniques.

How Unsaturated Setting Affects In Situ Copper Leaching Hydrology

Ultimately, for sites characterized as having an ARD potential, a full geostatistical model often provides the basis for control plans where material segregation is part of the mine plan. Fungi, algae *Cladosporium*, *Penicillium*, *Aspergillus*, *Ulothrix* Vlaikov vrah mine in Bulgaria contained about 30 million tons of waste low-grade copper sulfide and mixed ores. Rest periods in between were employed.

Heap leaching

One of the well-known dump leaching operations is located in Bingham Canyon, Utah The United States of the Kennecott Copper mines.

In situ recovery of copper sulfide ores: Alternative process schemes for bioleaching application

For historical mining or natural ARD releases, neutralization of acidity may occur following mixing with alkaline waters or interactions with solid mineral phases. There is no certainty that the PEA forecasts will be realized or that any of the resources will ever be upgraded to reserves.

In situ leaching of copper: Challenges and future prospects

Cu OH 2 Tenorite CuO Thick mature, oxidation profiles i. Leakage through the lined or unlined base of the leach pad could impact groundwater quality, while seepage flowing from the toe of the facilities and direct runoff may impact surface water.

Heap Leaching

Ultimately, if a major ARD problem is predicted from earlier phase test work, the waste should be characterized by a geostatistical model, which includes an adequate number of samples as well as a geological interpretation. As well, it contributes to significant environmental pollution, when discharged. PCR-DGGE, Culturing techniques Escondida, Chile, Run-of-mine copper ore A.

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