

Prediction of Acid Rock Drainage (ARD) from Calculated Mineralogy

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ABSTRACT

The acid-forming potential of ore and waste can be calculated based on a detailed knowledge of mineralogy, especially sulphide and carbonate contents. However, most mineralogical techniques (e.g., semi-quantitative X-ray diffraction (qXRD), scanning electron microscopy/energy dispersive spectroscopy (SEM/EDS) point counting) are too expensive for routine application. Mineralogy can be calculated from assay data using linear programming (simplex method) which is a mature method with application to real world quantities that cannot be negative. In order to apply this method, a table of mineral compositions is required for all the significant minerals in the study area. Unlike least squares methods, the mineral list can exceed the number of elements included in the assay data. Several carbonate compositions with a range of neutralising potential can be included. To use the linear programming method, a calibration must be established based on known compositions. This calibration can be based on qXRD or SEM/EDS point counting methods.

Not all types of assay data are sufficient for calculating mineralogy reliably. The best assay data comes from X-ray fluorescence analysis of major elements, including "loss on ignition" (LOI). Adding measured C content to this analysis provides a robust data set for calculating sulphide and carbonate contents of rocks. The mineralogy can be calculated without measured C, if LOI and SiO₂ are included in the analysis. However, typical mine databases contain multi-element assays based on a four-acid digestion method. In this case SiO₂ is not analysed and there is no "LOI" or total C. With typical four acid digestion data it is not possible to estimate the original carbonate content even when the mineralogy is simple. In rocks with complex mineralogy, mixed carbonates and/or multiple sulphides, qXRD and full chemical analyses are required to calculate acid rock drainage potential from mineralogy.

Keywords: calculated mineralogy, linear programming, ARD, carbonate

Acid Rock Drainage Prediction Manual

Peipei Pang



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Acid Rock Drainage Prediction Manual Coastech research inc, Programme de neutralisation des eaux de drainage dans l'environnement minier (NEDEM), Centre canadien de la technologie des minéraux et de l'énergie, 1991 Acid Rock Drainage Prediction Manual , 1991 *Practical Guide to Rock Tunneling* Dean Brox, 2017-04-11 This Practical Guide to Rock Tunneling fills an important void in the literature for a practical guide to the design and construction of tunnels in rock. Practical Guide to Rock Tunneling takes the reader through all the critical steps of the design and construction for rock tunnels starting from geotechnical site investigations through to construction supervision. The guide provides suggestions and recommendations for practitioners on special topics of laboratory testing, durability of rock and acceptance for unlined water conveyance tunnels, overstressing or deep and long tunnels, risk based evaluation of excavation methods, contract strategies and post construction inspections. Key considerations and lessons learned from selected case projects are presented based on the author's extensive international experience of over 30 years and 1000 km of tunneling for civil, hydropower and mining infrastructure including some of the most recognized projects in the world to date. Instead of revisiting all theory and concepts that can be found in other sources, this book contains the hard learned lessons from the author's experience in the field of Rock Tunneling gathered over 30 years of service. **Acid Mine Drainage, Rock Drainage, and Acid Sulfate Soils** James A. Jacobs, Jay H. Lehr, Stephen M. Testa, 2014-04-10 Provides the tools needed to analyze and solve acid drainage problems. Featuring contributions from leading experts in science and engineering, this book explores the complex biogeochemistry of acid mine drainage, rock drainage and acid sulfate soils. It describes how to predict, prevent and remediate the environmental impact of acid drainage and the oxidation of sulfides, offering the latest sampling and analytical methods. Moreover, readers will discover new approaches for recovering valuable resources from acid mine drainage including bioleaching. **Acid Mine Drainage, Rock Drainage and Acid Sulfate Soils** reviews the most current findings in the field, offering new insights into the underlying causes as well as new tools to minimize the harm of acid drainage. **Part I: Causes of Acid Mine Drainage, Rock Drainage and Sulfate Soils** focuses on the biogeochemistry of acid drainage in different environments. **Part II: Assessment of Acid Mine Drainage, Rock Drainage and Sulfate Soils** covers stream characterization, aquatic and biological sampling, evaluation of aquatic resources and some unusual aspects of sulfide oxidation. **Part III: Prediction and Prevention of Acid Drainage** discusses acid base accounting, kinetic testing, block modeling, petrology and mineralogy studies. It also explains relevant policy and regulations. **Part IV: Remediation of Acid Drainage, Rock Drainage and Sulfate Soils** examines both passive and active cleanup methods to remediate acid drainage. Case studies from a variety of geologic settings highlight various approaches to analyzing and solving acid drainage problems. Replete with helpful appendices and an extensive list of web resources, **Acid Mine Drainage, Rock Drainage and Acid Sulfate Soils** is recommended for mining engineers and scientists, regulatory officials, environmental scientists, land developers and students. **MEND**

Manual: Prediction ,2001 **Hard Rock Mine Reclamation** Bruno Bussière,Marie Guittonny,2020-12-09 Hard rock mines have significant effects on the territories where they operate through both infrastructure construction as well as resource use Due to their extractive activities these mines store large quantities of wastes at the surface which can be both physically and chemically unstable Reclamation aims to return a mine site to a satisfactory state meaning that the site should not threaten human health or security should not generate in the long term any contaminant that could significantly affect the surrounding environment and should be aesthetically acceptable to communities This book focuses on the reclamation of waste storage areas which constitute the main source of pollution during and after mine operations and especially issues with acid mine drainage and neutral contaminated drainage Features Provides fundamental information and describes practical methods to reclaim mine waste facilities Compares the different methods and illustrates their application at sites through case studies Identifies new reclamation issues and proposes solutions to address them Presents existing and new technologies to reclaim mine waste disposal areas from hard rock mines in different climatic conditions Integrates reclamation into mine operations and long term performance of techniques used through an interdisciplinary approach With mine site reclamation a young and still emerging science the training needs for professionals and students working in this field are huge This book is written from an engineering point of view and in it the authors identify new reclamation issues and propose well tested as well as innovative approaches to addressing them Students in graduate programs focused on mines and the environment as well as professionals already working in departments related to mine site reclamation will find this book to be a valuable and essential resource Managing Mining and Minerals Processing Wastes Chongchong Qi,Craig H Benson,2023-03-10 Managing Mining and Minerals Processing Wastes Concepts Design and Applications presents fundamental knowledge in waste management in mining and minerals processing and summarizes recent advances The book offers readers insights into innovative ways to manage waste in the mining and minerals industry Sections cover a brief introduction to this topic and an explanation of waste generation and how to manage the six types of waste including waste rock mill tailings coal refuse and coal fly ash quarry waste metallurgical slugs and washery rejects The title then emphasizes the management of hazardous waste the acid mine drainage and the lifecycle assessment of waste management Finally the book considers current and emerging challenges This publication offers a comprehensive background to waste management in mining and minerals processing and a summary of recent advances and innovative strategies for managing each kind of waste Presents the background to waste management in minerals and mining also summarizing recent advances Provides an accessible introduction to the current state of and future prospects for waste management Helps readers increase their usable knowledge on waste management in mining and minerals engineering Offers new insights into how waste can be managed in innovative ways Covers hazardous waste acid mine drainage lifecycle assessment and emerging issues Acid Mine Drainage Geoffrey S. Simate,Sehliselo Ndlovu,2021-02-23 Acid mine drainage AMD is essentially the flow of water

polluted with metals and other substances from existing old mining areas and is considered to be one of the sources of pollution. A wide range of technologies are available for preventing AMD generation and or treating AMD before discharge but there is a shift towards recovery of industrially useful materials and products from AMD. Acid Mine Drainage From Waste to Resources explores novel methods developed for the reuse and or recovery of industrially useful materials from AMD including discussing generation prediction prevention and remediation processes. It includes legislation and policy frameworks governing AMD and its environmental health impacts. Provides a detailed overview of the mining operations and discusses the geochemical and hydrogeological context of acid mine drainage. AMD formation prediction and impact. Presents a holistic approach to AMD generation prediction prevention and remediation processes. Presents exclusive material on reuse recycling and recovery of industrially useful materials from AMD. Gives a detailed overview of the legislation and policy regulatory framework governing the management of AMD. Analyses the effects of AMD on the environment and health. This volume is aimed at researchers and professionals in metallurgical engineering chemical engineering environmental engineering and mining engineering including policy makers.

Recovery of Byproducts from Acid Mine Drainage Treatment Elvis Fosso-Kankeu, Christian Wolkersdorfer, Jo Burgess, 2020-09-04 Recent developments have provided the opportunity to recover valuable materials from AMD treatment this is a sustainable approach that allows to reduce waste while generating incomes that balance the cost of the treatment. This book provides insights to innovative and affordable routes for AMD valorisation that can certainly motivate the mining industry to effectively manage their wastes and minimize environmental impact while generating jobs opportunities.

U.S. Geological Survey Open-file Report, 1994 *Mine Planning and Equipment Selection 2000* T.N. Michalakopoulos, G.N. Panagiotou, 2000-01-01 This text looks at mine planning and equipment and covers topics such as design and planning of surface and underground mines geotechnical stability in surface and underground mines and mining and the environment.

MEND Manual: Treatment, active and passive, 2001 **Environmental Indicators in Metal Mining** Bernd Lottermoser, 2016-10-18 This book represents an important new contribution to the literature that presents practical and comprehensive solutions to mining activities. Its timely content has been prepared by several experts from around the world and its practical format addresses the major environmental predictive techniques required for the extraction and processing of metal resources. Packed with reviews and case studies it covers current methods used to forecast environmental effects of metal mining.

Coal Remining Best Management Practices Guidance Manual, 2000 **Tailings and Mine Waste 2010** The Organizing Committee of the 14th International Conference on Tailings and Mine Waste, 2010-11-12 Tailings and Mine Waste 10 contains the contributions from the 14th annual Tailings and Mine Waste Conference held by Colorado State University of Fort Collins Colorado in conjunction with the University of Alberta and the University of British Columbia. The purpose of this series of conferences is to provide a forum for discussion and establishment of dialogue among all people in the mining industry and environmental community.

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improvement in tailings storage facility TSF management and help foster and strengthen the safety culture of mining companies The Tailings Management Handbook is important and timely because there is no other comprehensive resource rooted in these new fundamentals and global principles for tailings management Tailings management requires interdisciplinary and cross functional understanding and support which is apparent throughout this handbook Dive into the wealth of information contributed by more than 100 world renowned experts beautifully crafted into a full color handbook that focuses on the basics life cycle planning site and tailings characterization TSF design and construction as well as systems and operations of TSFs The inclusion of 42 case studies is an added plus with real world successes and lessons learned

International Land Reclamation and Mine Drainage Conference and Third International Conference on the Abatement of Acidic Drainage: Mine drainage ,1994 **MEND Manual: Prevention and control ,2001**

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