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# Sulfide Mining In Minnesota Mining Truth

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 Economic and Environmental Geology and Prospects for Future Supply

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## KAYLYN HARRY

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New Concepts and Discoveries Milkweed Editions

Since the mining industry is still expanding, comprehensive information on the effects of mining activities on the environment is needed. This book provides information on biological and physico-chemical treatments of mining effluents, on factors affecting human health and on environmental effects that have to be taken into account by the mining industry when aiming for sustainable development of their industry. Further regulatory guidelines and legislation relevant to the decommissioning of mining sites are reviewed. Mining industry, consulting

companies, and governmental agencies alike will find a wealth of valuable information in this book.

*A Year in the Wilderness* Minnesota's Iron Range  
 The Economic and the Environmental Impacts of Iron Mining Vs. Sulfide Mining  
 Growing up on the Iron Range of Minnesota allowed me to write about the people, its economy, and the flora and fauna of the area. My Hamline courses prepared me to research the environmental impacts iron mining and possible sulfide mining could have on this place of beauty. My concerns for the preservation of the Boundary Waters Canoe area motivated me to study the damage that took place from mining iron ore in the past and the possible destruction that could occur if mining for copper, nickel, and platinum is allowed in

this region. Once thought too sparse to mine, the deposits of these minerals are now being considered as a viable new source. This study informed me of the environmental impact that could occur is this was allowed to happen. The Environmental and Economical Affects of Sulfide Mining in Northern Minnesota "The research question addressed in this project was, what are the environmental and economic affects of sulfide mining in Northern Minnesota? It documents one person's study of various documents dealing with mining and mine pollution. It is an integrated document of geology, economics, environmental theories, and ecology that are based on best practices in their distinct pedagogies. The author documents the 1) details of Northern Minnesota geology; 2) the economics of

cities on the Iron Range; 3) environmental affects of a potential mine to flora and fauna, wetlands, and forests in the region. The Boundary Waters Canoe Area Wilderness is also discussed." --Sulfide Mining Regulation in the Great Lakes Region A Comparative Analysis of Sulfide Mining Regulation in Michigan, Minnesota, Wisconsin and Ontario "Due to the immense amount of mineral exploration and known extensive mineralization across the upper Great Lakes basin, the National Wildlife Federation developed this report to: 1. Analyze statutes and regulations focused on sulfide mining, and their implementation, in Michigan, Wisconsin, Minnesota and Ontario, 2. Develop recommendations for each jurisdiction to improve their regulation of sulfide mining, 3. Assess the current involvement and need for additional federal involvement in sulfide mine permitting across the U.S. jurisdictions and Ontario, and 4. Examine whether and how the federal Clean Water Act provides a nexus for water quality regulation at sulfide mines." --Executive summary. Possible Environmental Impact of Base Metal Mining in Minnesota Inter-Agency Task Force Report on Base Metal Mining Impacts The Environmental Leaching of Stockpiles Containing Copper-nickel Sulfide Minerals A Study of Chemical Release, Chemical Transport, and Mitigation Conducted at Erie Mining Company's Dunka Mine, Babbitt, Minnesota ; 1976-1980 Development of Archean Lode-gold and Massive Sulfide Deposit Exploration Models Using Geographic Information System Applications Targeting Mineral Exploration in Northeastern Minnesota from Analysis of Analog Canadian Mining Camps Mechanism and Control of Metal Sulfide in Gabbro Mining-related Solids Critical Mineral Resources of the United States Economic and Environmental Geology and Prospects for Future Supply Growing up on the Iron Range of Minnesota allowed me to write about the people, its economy, and the flora and fauna of the area. My Hamline courses prepared me to research the environmental impacts iron mining and possible sulfide mining could have on this place of beauty. My concerns for the preservation of the Boundary Waters Canoe area motivated me to study the damage that took place from mining iron ore in the past and the possible destruction that could occur if mining for copper, nickel, and platinum is allowed in this region. Once thought too sparse to mine, the deposits of these minerals are now being considered as a viable new source. This study informed me of the

environmental impact that could occur is this was allowed to happen.

**List of Bureau of Mines Publications and Articles ... with Subject and Author Index** Geological Survey

"The research question addressed in this project was, what are the environmental and economic affects of sulfide mining in Northern Minnesota? It documents one person's study of various documents dealing with mining and mine pollution. It is an integrated document of geology, economics, environmental theories, and ecology that are based on best practices in their distinct pedagogies. The author documents the 1) details of Northern Minnesota geology; 2) the economics of cities on the Iron Range; 3) environmental affects of a potential mine to flora and fauna, wetlands, and forests in the region. The Boundary Waters Canoe Area Wilderness is also discussed." --

Inside the Gold Industry DEStech Publications, Inc

Minnesota's Iron Range The Economic and the Environmental Impacts of Iron Mining Vs. Sulfide Mining

Sustaining Lake Superior Springer Science & Business Media

Provides an overview of recent research on the environmental effects of sulfide oxidation in geochemistry and related disciplines. Features new techniques, including scanning tunneling microscopy, x-ray absorption near-edge structure (XANES) spectroscopy, and evolved gas analysis. Describes kinetics of sulfide mineral dissolution, microbiological processes, solubility of secondary minerals, and effects on groundwater and surface-water systems. Presents advances in numerical modeling, prediction of acid generation, and remediation technology for mining wastes. Includes review of stable isotope (S, O) geochemistry in sulfate from acid mine drainage and acid rain environments

*Mineral Commodity Summaries 2020* Wiley-VCH

A compelling exploration of Lake Superior's conservation recovery and what it can teach us in the face of climate change Lake Superior, the largest lake in the world, has had a remarkable history, including resource extraction and industrial exploitation that caused nearly irreversible degradation. But in the past fifty years it has experienced a remarkable recovery and rebirth. In this important book, leading environmental historian Nancy Langston offers a rich portrait of the lake's environmental and social history, asking what lessons we should take from the conservation recovery as this extraordinary lake faces new

environmental threats. In her insightful exploration, Langston reveals hope in ecosystem resilience and the power of community advocacy, noting ways Lake Superior has rebounded from the effects of deforestation and toxic waste wrought by mining and paper manufacturing. Yet, despite the lake's resilience, threats persist. Langston cautions readers regarding new mining interests and persistent toxic pollutants that are mobilizing with climate change.

**Bibliography of Technical Reports** SME

From National Geographic's 2014

Adventurers of the Year, a beautifully illustrated account of a year in the Boundary Waters Canoe Area Wilderness

**Availability of U.S. Primary Nickel**

Resources Yale University Press Mineral Commodity Summaries 2019

**Mechanism and Control of Metal Sulfide in Gabbro Mining-related Solids** World Scientific

The award-winning cookbook author

"personalizes the path from farm to fork with heart and skill" in a combination of

"memoir, history and guidebook" (Wall Street Journal). The James Beard Award-

winning author of such beloved cookbooks

as *Sweet Nature* and *The Sioux Chef's*

*Indigenous Kitchen* explores how the "food

revolution" can take root in the northern

heartland in this inspiring food memoir. In

*Winter's Kitchen* reveals how a food

movement with deep roots in the

Heartland could feed the entire country,

rather than just a smattering of

neighborhoods and restaurants. Through

the lens of a single thanksgiving meal,

Beth Dooley discovers that a locally-

sourced winter diet is not only possible—it

can also be delicious. With chapters on

apples, wheat, turkey, wild rice, and more,

Dooley weaves together personal

remembrances, environmental awareness,

and the joy of cooking foods grown or

raised not far from her Minnesota home.

**Mine Drainage and Surface Mine**

**Reclamation** Springer Science & Business

Media

As the importance and dependence of

specific mineral commodities increase, so

does concern about their supply. The

United States is currently 100 percent

reliant on foreign sources for 20 mineral

commodities and imports the majority of

its supply of more than 50 mineral

commodities. Mineral commodities that

have important uses and face potential

supply disruption are critical to American

economic and national security. However,

a mineral commodity's importance and the

nature of its supply chain can change with

time; a mineral commodity that may not

have been considered critical 25 years ago

may be critical today, and one considered critical today may not be so in the future. The U.S. Geological Survey has produced this volume to describe a select group of mineral commodities currently critical to our economy and security. For each mineral commodity covered, the authors provide a comprehensive look at (1) the commodity's use; (2) the geology and global distribution of the mineral deposit types that account for the present and possible future supply of the commodity; (3) the current status of production, reserves, and resources in the United States and globally; and (4) environmental considerations related to the commodity's production from different types of mineral deposits. The volume describes U.S. critical mineral resources in a global context, for no country can be self-sufficient for all its mineral commodity needs, and the United States will always rely on global mineral commodity supply chains. This volume provides the scientific understanding of critical mineral resources required for informed decisionmaking by those responsible for ensuring that the United States has a secure and sustainable supply of mineral commodities.

Annual Meeting and ... Mining Symposium  
Springer Nature

"Due to the immense amount of mineral exploration and known extensive mineralization across the upper Great Lakes basin, the National Wildlife Federation developed this report to: 1. Analyze statutes and regulations focused on sulfide mining, and their implementation, in Michigan, Wisconsin, Minnesota and Ontario, 2. Develop recommendations for each jurisdiction to improve their regulation of sulfide mining, 3. Assess the current involvement and need for additional federal involvement in sulfide mine permitting across the U.S. jurisdictions and Ontario, and 4. Examine whether and how the federal Clean Water Act provides a nexus for water quality regulation at sulfide mines."--Executive summary.

A Study of Chemical Release, Chemical Transport, and Mitigation Conducted at Erie Mining Company's Dunka Mine, Babbitt, Minnesota ; 1976-1980 ABDO  
Froth Flotation: A Century of Innovation comprehensively describes the state-of-the-art research and practice in mineral froth flotation as known and practiced a century after its introduction. Recognized experts from around the world provide in-depth coverage on the historical aspects of flotation; flotation fundamentals; flotation chemistry; flotation cells, modeling, and simulation; and flotation

plant practice. This commemorative volume is an invaluable reference for industry professionals, researchers, and graduate students. It continues a distinguished series that began with Froth Flotation: 50th Anniversary Volume (1962) and the A.M. Gaudin Memorial Volume (1976). The enclosed CD supplements the book with presentations from the Centenary of Flotation Symposium managed by the Australasian Institute of Mining and Metallurgy.

#### **The Environmental and Economical Affects of Sulfide Mining in Northern Minnesota**

Some commodities command massive economic, social, and political influence. This title examines the business around gold, one of the most sought-after and valuable metals on Earth. It explores gold's historical significance as a monetary standard and as the motivator for boom-or-bust expansion as well as gold's contemporary ties to underdeveloped economies, the environment, and technological innovation. Features include essential facts, a glossary, selected bibliography, websites, source notes, and an index. Aligned to Common Core Standards and correlated to state standards. Essential Library is an imprint of Abdo Publishing, a division of ABDO.

#### **Geological Society of Nevada 2015 Symposium**

Achieving the goals and objectives of sustainable development requires better information about the consequences of proposed actions. Partial information accounts for many failed efforts in the past. The financial implications for the proponent of the projects have often been more thoroughly analyzed than the implications for other actors. The impacts on biological diversity, or on the social fabric of local communities, have often been ignored. Decision-makers may also focus more on the short-term consequences instead of long-term impacts, creating negative unintended consequences. It is clear that better decision-making processes are needed. Making better decisions requires identifying, obtaining, synthesizing and acting on larger and more diverse data sets, including information that has previously been overlooked in development decisions. The good news is that better processes are being developed and are becoming available. If the goal is to reach decisions that are broadly understood and accepted, affected communities need to be consulted. Early public participation in defining problems is a prerequisite to effective decision-making. There is no universal formula or

checklist of information applicable to every proposed project. The scope of information required should not be determined from the start by small cadres of experts. It is unlikely that any individual or small group processes all of the expertise to achieve the kind of profound interdisciplinary synthesis that is needed.

#### **Nonferrous Mineral Project**

Negative environmental events make the headlines. Mining industry examples are the recent incidents at Summitville, Colorado, US, and the cyanide leak at Cambria Resource's Omai Operation in Guyana. In this volatile atmosphere, the publication of the Mining Environmental Handbook comes at an opportune time. It presents an objective, comprehensive and integrated examination of the effects of mining on the environment, and the environmental laws that deal with mining. Though stressing activities in the United States of America, it covers all of North America. North American environmental standards are currently being exported around the world. Consequently, this handbook will be of prime interest in countries that are now coming to terms with mining environmentalism. It should benefit working engineers and environmentalists, manufacturers, legislators, regulators, financiers and journalists. It has been selected as a university textbook. Finally, it will be an indispensable reference during serious discussions about mining environmentalism. Contents: Development of the Mine Environmental Precept and Its Current Political Status The Legal Bases of Federal Environmental Control of Mining Environmental Control at the State Level Environmental Effects of Mining Technologies for Environmental Protection Environmental Permitting Systems Design for Site Specific Environmental Protection Operations Environmental Management Solution Mining and In-Situ Leaching Placer or Alluvial Mining Coal Acid Mine Drainage and Other Mining-Influenced Waters (MIW) Uses of Mines as Landfills and Repositories Economic Impact of Current Environmental Regulations on Mining Financial Assurances for Corrective Actions, Closure and Post Closure International Environmental Control of Mining Environmental Case Studies from the Hard Rock Industry Current and Projected Issues Directory of State Regulatory Agencies Glossary Index Readership: Engineers, environmentalists and geologists. Keywords: History; Legal Aspects; Problems; Technology; Permitting; Case Studies; Economic Impact Reviews: "...

is a useful, and very readable, first point of reference for those needing to have a general overview of the various environmental issues arising from mining and mineral processing ... There is much to commend the book to wider international use, as it contains a considerable amount of universal 'best practice' which can be applied to mining situations in most countries seeking to adopt credible western standards." MINING technology  
*Metallic Mining in the Lake Superior Region*

Scientific analyses of the geology, metallogeny, and mineralization of gold, silver and other high-value elements in the western USA. Technical details on working mines, exploration results, new deposits. Presentations produced with the United States Geological Survey, Society of Economic Geologists. Two-volume book set printed in full color with full-text searchable CD-ROM. Produced under the auspices of the Geological Society of Nevada and published every five years, this two-volume book of peer-reviewed papers focuses on the geological analysis of ore-rich deposits in the western United

States, especially ones containing gold and other high-value elements. Hundreds of stratigraphic, lithographic, remote-sensing and core sample examples are presented, particularly of areas likely to host Carlin-type gold deposits. The two volumes contain a wealth of data on specifically named mines, as well as technical information on high-potential areas for exploration. The book is profusely illustrated with full-color maps, photographs and charts for geology and mining engineering. A searchable CD accompanies the book and includes the full text of papers from the printed book, as well as abstracts and information from poster sessions not found in the printed book. Chapters in the text are fully refereed versions of presentations originally delivered at a symposium supported by the Geological Society of Nevada, along with the United States Geological Survey, Society of Economic Geologists and the Nevada Bureau of Mines. Sample key words: metallogeny, gold, epithermal ore, magmatism, Carlin trend, square array void mapping (SAVM), porphyry copper, tungsten, orogeny,

litho-geochemistry, 3-D resistivity and modeling, fault-surface mapping, airborne electromagnetics and more. \*The CD-ROM displays figures and illustrations in articles in full color along with a title screen and main menu screen. Each user can link to all papers from the Table of Contents and Author Index and also link to papers and front matter by using the global bookmarks which allow navigation of the entire CD-ROM from every article. Search features on the CD-ROM can be by full text including all key words, article title, author name, and session title. The CD-ROM has Autorun feature for Windows 2000 or higher products and can also be used with Macintosh computers. The CD includes the program for Adobe Acrobat Reader with Search 11.0. One year of technical support is included with your purchase of this product.

**A Century of Innovation  
 Effects of Mining on the Environment  
 and American Environmental Controls  
 on Mining**

Technical Highlights, Bureau of Mines  
 Mining Research Program, 1987  
*The Environmental Leaching of Stockpiles  
 Containing Copper-nickel Sulfide Minerals*

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