NATURAL RESOURCES

Metal Mining and the Environment—A Bibliography

compiled by
Rebecca A. Christie

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WASHINGTON STATE DEPARTMENT OF
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Jennifer M. Belcher - Commissioner of Public Lands
Kaleen Cottingham - Supervisor

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INTRODUCTION

This bibliography is a compilation of materials relating to the reclamation of open-pit metal mines. References on coal, uranium, underground mines, and remediation of smelter damage are included if the information is applicable to open-pit metal mine reclamation. The materials included pertain to the abatement of acid drainage, treatment technologies for tailings and waste rock, physical containment methods, revegetation, and other reclamation issues for precious and base metal mines.

The work is divided into 13 broad subject groupings. Subject headings used by the Library of Congress, various databases, and other bibliographies were examined in the process of developing index terms. The index terms and subject categories used in this report were determined jointly by the compiler and David K. Norman, Washington's reclamation geologist.

The bibliography is organized so that a reference may fall under multiple subject groupings. For example, a work about preventing the formation of acid drainage in a tailings impoundment would be listed in both Section I, Acid drainage, and also in Section V, Tailings and surface impoundments. The index terms are appended to each citation.

Some, but not all, of the listed materials are held in the Washington Division of Geology and Earth Resources reference library and (or) in the Division's surface mining literature file in Olympia, Washington.

The bibliography is being sent to Laurentian University in Sudbury, Ontario, for inclusion in their Mining Environment Database. (See Appendix D.)

This bibliography is also available on an MS-DOS diskette in Word Perfect 5.1 or ASCII. The file is about 800 kb. To receive a diskette copy, please send us a formatted 3.5-in. or 5.25-in. diskette, with a $1.00 check or money order made out to the Department of Natural Resouces to cover postage and handling. We will load the diskette and return it to you, along with a list of index terms. ASCII file users may want to acquire a paper copy of the bibliography because text formatting is lost in the conversion to ASCII.

TRI-STATE AGREEMENT ON MINING

The Tri-State Agreement on Mining, implemented in 1993 and funded by U.S. Environmental Protection Agency grant X 000798-01-0, has facilitated information sharing among mine regulators and reclamation professionals in Washington, Oregon, and Idaho. This bibliography is one of Washington's contributions to this cooperative effort.

CONTACT PERSONS:

David K. Norman, Reclamation Geologist
Washington Division of Geology and Earth Resources
1111 Washington St. S.E.
P.O. Box 47007
Olympia, WA 98504-7007
(206) 902-1439
fax (206) 902-1785
(Effective Jan. 15, 1995, the area code is 360.)

Allen H. Throop, Reclamationist
Mined Land Reclamation Program
Oregon Department of Geology and Mineral Industries
1536 Queen Avenue S.E.
Albany, OR 97321
(503) 967-2039
fax (503) 967-2075

Bruce Schuld
Water Quality Compliance Officer
Idaho Department of Environmental Quality
Southwest Idaho Regional Office
1420 N. Hilton
Boise, ID 83706
(208) 334-0554
fax (208) 334-5887

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I. ACID DRAINAGE

This section is divided into six subsections:

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I. A. ACID DRAINAGE – GENERAL WORKS

Includes general works on acid mine drainage and acid rock drainage.

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ACID DRAINAGE PREDICTION – MODELS/ ACID DRAINAGE – CONTROL

I. C. ACID DRAINAGE – CONTROL

Includes works on acid drainage control, which is defined as control of acid generation and acid drainage migration. This section also includes works on drainage control. See also sections V and VI for works specific to tailings and waste rock.

Control of acid generation includes: (1) conditioning of tailings or waste rock to remove or exclude sulphide minerals; (2) covers and seals to exclude water; (3) covers and seals to exclude oxygen (including water cover); (4) waste segregation and blending to control pH; (5) base additives to control pH; and (6) bactericides to control bacterial oxidation of sulphide minerals.

Control of acid drainage migration includes: (1) covers and seals to exclude infiltration of precipitation; (2) controlled placement of waste to minimize infiltration; (3) diversion of surface water; and (4) interception of ground water.

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TAILINGS IMPOUNDMENTS – COVERS

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ACID DRAINAGE – CONTROL/ WASTE ROCK/ TAILINGS

Barton-Bridges, J. P.; Robertson, A. MacG., 1989, Geotechnical considerations in the control of acid mine drainage. *In* Geotechnical aspects of tailings disposal and acid mine drainage, May 26, 1989, Hotel Georgia, Vancouver, B.C.: Vancouver [B.C.] Geotechnical Society, [16 p.].

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ACID DRAINAGE – TREATMENT – BIOLOGICAL/ ECONOMIC ASPECTS

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von Michaelis, Hans, 1986, Integrated biological systems for effluent treatment from mine and mill tailings. *In* Lawrence, R. W.; Branion, R. M. R.; Ebner, H. G., editors, Fundamental and applied biohydro metallurgy: Elsevier Science Publishers B.V. Process Metallurgy 4, p. 311-326.

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REVEGETATION/ ACID DRAINAGE/ TAILINGS/ PLANNING/ LANDFORM RECLAMATION/ WETLANDS FOR WATER TREATMENT

II. MINE WATERS AND WATER QUALITY

NOTE: This section does not include works on the treatment of mine drainage or mineral processing effluents. See section I, subsections D, E, and F for works on the treatment of acidic mine waters. See section III, subsection B for works on the treatment of mineral processing effluents. This section is divided into four subsections:

A. HYDROGEOCHEMICAL MODELING

B. WATER CHEMISTRY

C. WATER QUALITY MANAGEMENT

D. WATER QUALITY MONITORING

II. A. HYDROGEOCHEMICAL MODELING

Includes works on interactions among surface water, ground water, and mine wastes, and models of water movement.

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Barry, D. A., 1993, Time dependence of solute dispersion in aquifers. *In* Fell, Robin; Phillips, Tony; Gerrard, Charles, editors, Geotechnical management of waste and contamination: A. A. Balkema, p. 329-334.

GROUND WATER MOVEMENT – MODELS

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WATER QUALITY MONITORING/ WATER QUALITY – BIOLOGICAL INDICATORS

III. ORE TREATMENTS —CYANIDE, LEACHING, METALLURGY

This section is divided into three subsections:

A. CYANIDE – GENERAL WORKS

B. HEAP LEACHING/ VAT LEACHING/ TANK LEACHING AND CYANIDE – TREATMENT

C. NON-CYANIDE METALLURGICAL PROCESSES

III. A. CYANIDE – GENERAL WORKS

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CYANIDE HEAP LEACHING/ CYANIDE – CHEMISTRY/ CYANIDE – TREATMENT

III. B. HEAP LEACHING/ VAT LEACHING/ TANK LEACHING AND CYANIDE TREATMENTS

Includes works on various treatment methods, including: (1) natural degradation and biological processes; (2) alkaline chlorination; (3) AVR [acidification-volatilization-recovery] process; (4) hydrogen peroxide; (5) sulphur dioxide/air process; (6) ion exchange; and (7) oxidation. Includes works on cyanide heap leaching, cyanide vat leaching, and tank cyanidation, as well as general works on leaching.

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MURRAY BROOK MINE (NEW BRUNSWICK)/ CYANIDE VAT LEACHING/ CYANIDE HEAP LEACHING

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CHASE HILL (SOUTH CAROLINA)/ GOLD/ CYANIDE HEAP LEACHING

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HAILE GOLD MINE (SOUTH CAROLINA)/ LANCASTER CO., S.C./ CYANIDE HEAP LEACHING/ GOLD

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V. TAILINGS AND SURFACE IMPOUNDMENTS

This section is divided into four subsections:

A. TAILINGS – GENERAL WORKS

B. TAILINGS IMPOUNDMENTS

C. TAILINGS – CHEMISTRY, BIOCHEMISTRY, BIOGEOCHEMISTRY

D. UNDERWATER TAILINGS DISPOSAL

V. A. TAILINGS – GENERAL WORKS

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MYRA FALLS (BRITISH COLUMBIA)/ WASTE ROCK DUMPS/ ACID DRAINAGE – CONTROL

VII. EROSION CONTROL AND CONTAMINANT TRANSPORT

This section includes works on erosion and sediment control, and contaminant mixing and transport, including contaminant transport in soils and metal concentrations in sediments. For materials dealing with the transport of pollutants in water and water quality, see section II. For works on topsoil and soils for revegetation, see section VIII.

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ALASKA/ GOLD/ EROSION AND SEDIMENT CONTROL/ MANAGEMENT – HANDBOOKS, MANUALS, ETC./ WATER QUALITY MANAGEMENT

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Hodder, R. L., 1975, Montana reclamation problems and remedial techniques. *In* Wali, M. K., editor, Practices and problems of land reclamation in western North America: University of North Dakota Press, p. 90-106.

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HILLSIDE MINE (ARIZONA)/ BOULDER CREEK, ARIZ./ ABANDONED MINE LANDS/ WATER – CHEMISTRY – NATURAL WATER CHEMISTRY/ ACID DRAINAGE

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VIII. REVEGETATION AND PLANT-SOIL RELATIONSHIPS

This section is divided into two subsections:

A. REVEGETATION

B. SOILS

VIII. A. REVEGETATION

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Chopiuk, R. G.; Thornton, S. E., 1987, Waste dump design for erosion control: Alberta Land Conservation and Reclamation Council Report RRTAC 87-8, 45 p.
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Harwood, G. D.; Thames, J. L., 1988, Design and planning considerations in surface-mined land shaping. *In* Hossner, L. R., editor, Reclamation of surface-mined lands: CRC Press, Inc., v. 1, p. 137-158.
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X. MANAGEMENT AND PLANNING

This section includes works on abandoned mine lands, mining operation planning, site evaluation, public relations, and general works on issues of interest to mine operators. Best Management Practices (BMPs) have been included in this section.

Alaska Department of Environmental Conservation, 1982, Settling pond handbook: Montana Department of Health and Environmental Sciences; Montana Department of State Lands, 22 p.

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Baker, D. E.; Buck, J. K., 1988, Using computerized expert systems, unique soil testing methods, and monitoring data in land management decisions. *In* Mine drainage and surface mine reclamation; Proceedings of a conference; Volume II—Mine reclamation, abandoned mine lands and policy issues: U.S. Bureau of Mines Information Circular 9184, p. 246-256.

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Entrix, Inc., 1986, Best management practices for placer mining—Reference manual: Alaska Department of Fish and Game, 209 p.

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APPENDIX A: SELECTED GOVERNMENT AGENCIES AND RESEARCH ORGANIZATIONS

U.S. Geological Survey Office of Mineral Resources
Center for Environmental Geochemistry and Geophysics (CEGG)
Box 25046, MS 973
Denver Federal Center, Bldg. 20
Denver, CO 80225-0046
(303) 236-1903 or 236-3301
fax (303) 236-3200

U.S. Environmental Protection Agency
Center for Environmental Research Information (CERI)
26 West Martin Luther King Drive
Cincinnati, OH 45268
(513) 569-7562
fax (513) 569-7566

Energy, Mines and Resources Canada
Canada Centre for Mineral and Energy Technology (CANMET)
580 Booth St.
Ottawa, ON K1A 0E4 Canada
(613) 992-8837
fax (613) 952-2587

Wastewater Technology Centre
867 Lakeshore Road
P.O. Box 5068
Burlington, ON L7R 4L7 Canada
(416) 336-4855
fax (416) 336-4765

Noranda Technology Centre
240 Hymus Road
Point Claire, PQ H9R 1G5 Canada
(514) 630-9300
fax (514) 630-9379

Alberta Environmental Protection
Land Conservation and Reclamation Division
Reclamation Research Technical Advisory Committee
3rd Fl., 9820 106 St.
Edmonton, AB T5K 2J6 Canada
(403) 422-2636
fax (403) 422-0080

Ontario Ministry of Northern Development and Mines
Mines and Minerals Division
159 Cedar Street
Sudbury, ON P3E 6A5 Canada
(705) 670-7130 [Library]

U.S. Office of Surface Mining Reclamation and Enforcement
Western Support Center
1999 Broadway, Suite 3320
Denver, CO 80202-5733
(303) 672-5500
fax (303) 672-5622

U.S. Forest Service Intermountain Research Station
Federal Office Building
324 25th St.
Ogden, UT 84401
(208) 882-3557
fax (208) 883-2318

University of Arizona Office of Arid Lands Studies
845 N. Park Avenue
Tucson, AZ 85719
(602) 621-1955 or 621-7897
fax (602) 621-3816

[U.S.] Mine Waste Technology Pilot Program (MWTPP) Contacts:
Jon Hermann
U.S. Environmental Protection Agency
Office of Research and Development
Risk Reduction Engineering Laboratory
26 W. Martin Luther King Dr.
Cincinnati, OH 45268
(513) 569-7839
fax (513) 569-7787

Mel Shupe
Office of Technology Development
Trevion II/EM-54
U.S. Department of Energy
Washington, D.C. 20545
(301) 903-7942
fax (301) 903-7457

Jean Bishop, Reference Librarian
Montana College of Mineral Science and Technology
1300 West Park Street
Butte, MT 59701-8997
(406) 496-4282
fax (406) 496-4133

APPENDIX B: SELECTED PROFESSIONAL ORGANIZATIONS

American Mining Congress
1920 N Street NW, Suite 300
Washington, DC 20036-1662
(202) 861-2800
fax: (202) 861-7535

Society for Mining, Metallurgy, and Exploration, Inc.
8307 Shaffer Parkway
Box 625002
Littleton, CO 80127-5002
(303) 973-9550
fax (303) 973-3845

TMS: The Minerals, Metals and Materials Society
420 Commonwealth Drive
Warrendale, PA 15086-7514
(412) 776-9000
fax (412) 776-3770

International Erosion Control Association
P.O. Box 774904
Steamboat Springs, CO 80477-4904
(303) 879-3010
fax (303) 879-8563

Society for Ecological Restoration (SER)
1207 Seminole Hwy.
Madison, WI 537111
phone/fax (608) 262-9547

American Society for Surface Mining and Reclamation
21 Grandview Drive
Princeton, WV 24740
phone/fax (304) 425-8332

Northwest Mining Association
10 N. Post, Suite 414
Spokane, WA 99201-0772
(509) 624-1158
fax (509) 623-1241

Canadian Land Reclamation Association
Box 682
Guelph, ON N1H 6L3 Canada
(905) 689-8134

Mining Association of British Columbia
P.O. Box 12540
860, 1066 W. Hastings Street
Vancouver, BC V6E 3X1 Canada
phone/fax (604) 681-5305

The Australasian Institute of Mining and Metallurgy
Clunies Ross House
191 Royal Parade
P.O. Box 122
Parkville VIC 3052 Australia
(03) 347-3166
fax (03) 347-8525

Australian Mining INdustry Council
P.O. Box 363
Dickson, ACT 2602 Australia
062-49-8955
fax 062-47-4985

Greening Australia (SA) Inc./ State Tree Centre
GPO Box 9868
Adelaide, SA 5001 Australia
(08) 207-8757

APPENDIX C: SELECTED SOURCES FOR PUBLICATIONS

U.S. Department of Commerce
National Technical Information Service (NTIS)
5258 Port Royal Road
Springfield, VA 22161
(703) 487-4650 or 1-(800)-553-NTIS
fax (703) 321-8547
NOTE: distribute U.S. Office of Surface Mining Reclamation and Enforcement, U.S. Bureau of Mines, and U.S. Environmental Protection Agency reports

U.S. Environmental Protection Agency
EPA Publications and Information Center (EPIC)
26 West Martin Luther King Drive
Cincinnati, OH 45268
(513) 569-7980
fax (513) 569-7186

U.S. Bureau of Mines
Publication Distribution
Cochrans Mill Rd., P.O. Box 18070
Pittsburgh, PA 15236
(412) 892-4338
fax (412) 892-6877

Canada Centre for Mineral and Energy Technology (CANMET)
Library and Documentation Services Division
562 Booth Street
Ottawa, ON K1A 0G1 Canada
(613) 996-9758
fax (613) 952-2587
NOTE: distribute Mine Environment Neutral Drainage (MEND) reports

Montana State University Reclamation Research Unit
106 Linfield Hall
Montana State University
Bozeman, MT 59717-0290
(406) 994-4821
fax (406) 994-4876
NOTE: distribute Reclamation Research Unit publications

Colorado State University
Department of Civil Engineering
Fort Collins, CO 80523
(303) 491-7425
fax (303) 491-7727
NOTE: distribute geotechnical engineering publications

Environment Canada
Environmental Protection Directorate
Western/Northern Regional Office
Twin Atria II, 4999 - 98 Ave., 2nd Fl.
Edmonton, AB T6B 2X3 Canada
(403) 468-8075
fax (403) 495-2615

Pacific/Yukon Regional Office
224 West Esplanade
North Vancouver, BC V7M 3H7 Canada
(604) 666-0064
fax (604) 666-6281

Queen's Printer Bookstore
11510 Kingsway
Edmonton, AB T5G 2Y5 Canada
(403) 427-4952
fax (403) 452-0668
NOTE: distribute Alberta Reclamation Research Technical Advisory Committee (RRTAC) Reports

Alberta Environmental Protection
Library Services Branch/Publications Centre
14th Fl., 9820 - 106 Street
Edmonton, AB T5K 2J6 Canada
(403) 427-5870
fax (403) 422-0170

BiTech Publishers Ltd.
173 - 11860 Hammersmith Way
Richmond, BC V7A 5G1 Canada
(604) 277-4250
fax (604) 277-8125

Mining Journal Books Ltd.
P.O. Box 10
Edenbridge,
Kent TN8 5NE
United Kingdom
(0732) 864333
fax (0732) 865747

APPENDIX D: MINING ENVIRONMENT DATABASE:

Laurentian University's J. N. Desmarais Library maintains the Mining Environment Database, an extensive database on literature pertaining to abandoned mines, acid drainage and land reclamation. The database provides references to journal articles, conference proceedings, books, and government reports dealing with abandoned mines and land reclamation.

Topics include reclamation planning, design and costs; tailings; heavy metals; disposal of hazardous wastes, including acid mine drainage, sulphide-based tailings and asbestos particles; chemical reactivity and oxidation affecting pyrite and pyrrhotite tailings; leaching; radioactive hazards of uranium tailings; soil and water contamination; soil stabilization; liming; fertilizers; seeding techniques; mine closure techniques, and other related topics. Subject coverage is international in scope.

The database is searchable through the Internet. Searching is free with the exception of long distance costs. You will need an IBM-compatible computer, a modem (up to 9600 baud rate), and appropriate communications software. Modem speeds to 19,200 bps are supported. Kermit communications software is available free by sending a formatted diskette to the Circulation Section, J. N. Desmarais Library, at the address below.

Mining Environment Database
J. N. Desmarais Library
Laurentian University
Sudbury, Ontario P3E 2C6 Canada
(705) 675-1151
fax (705) 673-6524
e-mail [Ron Slater]
rslater@laulibr.laurentian.ca
e-mail [Glen Kelly]
gkelly@laulibr.laurentian.ca

The database co-editors, Ron Slater and Glen Kelly, hope to expand the database into a network or association of regional databases, each of which would provide comprehensive access for a specific topic or geographic area, with common access via an Internet gopher. Contact either of the co-editors for supporting documentation and "how-to" literature.

VT 220 terminal emulation is required to access the database via the Internet:
1. Login to your local Internet account
2. At your system's prompt, type:
   telnet laulibr.laurentian.ca
3. <cr>
4. At the "Username" prompt, type: netlib
5. <cr>
6. You are now in Laurentian's online catalog. MEDB is the Mining Environment Database.