Appendix C

Public Participation and List of Supporting Documents

The effects of Federal land management laws, policies, and practices on the use of Federal lands for development of minerals on non-Federal lands has not been studied widely. Special attention was therefore given to developing the information necessary to support problem analysis and evaluation.

Non-Federal lands constitute approximately two-thirds of the total national land base potentially available for domestic minerals development. Information gathering in the contiguous United States focused on States with large Federal landholdings, such as Nevada where 87 percent of the land is federally owned. (Figure C-1.) Primary emphasis was given to Western States; a sample of Eastern States was included for completeness.

Certain States were selected for intensive analysis. In the West, Nevada and Arizona were analyzed. Information was also gathered in Colorado and Wyoming. Within the Eastern States, North Carolina was analyzed in depth. Additional information was obtained in New Jersey, Delaware, South Carolina, and Virginia. Alaska was analyzed intensively because access across Federal to non-Federal land was a prominent issue during congressional consideration of Alaska National Interest Lands legislation.

In order to complete this assessment, OTA had to conduct basic information gathering because of the dearth of published material on problems of access to non-Federal minerals. Several approaches were used to obtain the necessary information: field interviews, study area analyses, and workshops. Analysis of access issues could not have been accomplished without such information gathering and the cooperation of nearly 600 individuals and groups that were concerned or affected by Federal land management decisions. Among the groups interviewed were non-Federal landowners; Alaska Native Corporations; mining interests, including mining corporations, small mining businesses and small miners; conservation and environmental organizations; the academic community; and representatives of Federal, State, and local governments. Professional and technical organizations such as the Association of State Geologists also provided information. Contacts were maintained with these groups throughout the study.

OTA information gathering was augmented by contractor and consultant reports which assisted in the problem evaluation and
Figure C.1.—Percentage of Federal Land by State (1978)

*The percentage for Alaska is to be reduced to 74 percent by 1985 following conveyance of State and Native lands.*
analysis phase of the assessment. OTA staff independently verified the information obtained by contractors and consultants. The following is a list of working papers prepared for this assessment.

Minerals Accessibility to Non-Federal Lands in Arizona, W. Dresher, T. Eyde, and J. Poole, Univ. of Arizona.


Assessment of Mineral Accessibility to Non-Federal Lands in North Carolina, Geological Resources, Inc.


These working papers are on file at OTA. Persons wishing to review these working papers should contact the Materials Group, Office of Technology Assessment, Washington, D.C. 20510.

Other working papers prepared for the assessment were published by OTA as: Analysis of Laws Governing Access Across Federal Lands, Volume II, Working Papers (OTA-M-76). This volume includes the following papers:


The Economic Importance of the Small Miner and Small Mining Businesses in Alaska, C. Hawley and J. Whitney.

OTA relied heavily on field interviews in the contiguous United States during the early phases of the assessment. Problems associated with access use of Federal lands for exploration and development of minerals on non-Federal lands were identified in consultation with representatives of various National, State, and local interest groups. OTA gratefully acknowledges the assistance of the following individuals and groups that made technical contributions to the assessment:

Arizona
A&S Sand and Gravel Company
Allied Concrete Products, Inc.
AMAX Inc.
American Agriculture International, Inc.
American Materials, Inc.
Anamax Mining Company
Arizona Conservation Council
Arizona Mining Association
Arizona Rock and Sand Corporation
Arizona Rock Products Association
Arizonaans for a Quality Environment
Bureau of Land Management, Advisory Board
Bureau of Land Management, Phoenix Grazing District
Bureau of Land Management, Safford Grazing District
Bureau of Mines, U.S.
Cinder/pumice operators*
Cities Service Minerals Corporation
Citizens of Flagstaff*
Coconino County Planning Dept.
Columbia Sand and Gravel Company
CONOCO
Construction Materials Inc.
Continental Copper Company

*Notes a desire not to be identified by name or that records of interview are unavailable.
Flagstaff Chamber of Commerce
Forest Service, U.S.
Gee-Services of Arizona
Hecla Mining Company
Inspiration Consolidated
Kerr-McGee Corporation
Mesa Sand and Rock Company
Mineral Property Owners*
National Park Service, U.S.
Nature Conservancy
Navajo Community College
Newmont Mining
Occidental Minerals Corporation
Papago Indian Tribe, Director of Mines
Peabody Coal Company
Perry Exploration Company
Phoenix Chamber of Commerce
Phoenix Rock and Sand Corporation
Pima County Assessors’ Office
Ranchers*
Santa Fe Pacific Land Company
Small Mining Interests*
Southern Arizona Environmental Council
Southwest Economic Information Center
Southwest Exploration Associates
St. Joe American Corporation
State of Arizona
   Bureau of Geology and Mineral Technology
   Governor’s Commission on Arizona Environment
   Land Department
   Mineral Resources Department
   State Legislature, House and Senate Natural Resources Committees
   University of Arizona, Council for Environmental Studies
   University of Arizona, Office of Arid Lands
Stop Mining Around Residential Tucson
The Superior Companies
The Tanner Companies
Tucson Sand and Soil Company
Twitty, Seville and Mills, Attorneys-at-Law
Union Rock and Sand Company
Valley Concrete and Materials
Valley National Bank
Wallaby Enterprises
Western Prospector and Miner Newspaper
White Mountain Apache Indian Tribe, Tribal Chairman

California
National Audubon Society
National Wilderness Federation
State of California
   Division of Mines and Geology

Colorado
Bureau of Land Management, U.S.
Chambers of Commerce
Citizens of Grand Junction*
Colorado Counties, Inc.
Colorado National Bank
Colorado Oil and Gas
Consolidated Coal Company
Department of Energy, U.S.
Eagle County Planning Commission
Forest Service, U.S.
National Audubon Society
Environmental Consultant*
Sand and Crushed Stone Operators*
State of Colorado
   Bureau of Mines
   Geological Survey

Delaware
Barber Sand and Gravel
Contractors Sand and Gravel
Delaware Brick Co.
Delaware Sand and Gravel
New Castle County Planning and Zoning Commission
Soil Conservation Service, Sussex County District
State of Delaware
   Office of Management, Budget, and Planning
   Department of Natural Resources and Environmental Control
   State Geological Survey
   Sussex County Planning Office
   Whittington’s Sand and Gravel Company

District of Columbia
Bureau of Mines, Liaison Officers for Maryland and Delaware
Conservation Foundation
Department of Commerce, U.S.
OCZM, South Atlantic Regional Manager
Department of the Interior, U.S.
Environmental Policy Center
Friends of the Earth
Sierra Club
Wilderness Society

Indiana
Indiana Department of Natural Resources, Geological Survey

Iowa
Iowa Geological Survey

*Notes a desire not to be identified by name or that records of interview are unavailable.
Maryland
Arundel Corporation
Campbell Sand and Gravel Company
Charles County Sand and Gravel
Contee Sand and Gravel Company
National Sand and Gravel Association
Stancill’s Inc.
State of Maryland
Conservation Education Council
Department of Natural Resources
Office of Coastal Zone Management
Geological Survey

Michigan
Michigan Department of Natural Resources

Minnesota
Minnesota Geological Survey

Missouri
Missouri Department of Natural Resources

Montana
Forest Service, U.S.
Anaconda Company

Nevada
Air Force, U.S.
American Selco
Anaconda Company
Arrow Ready Mix
Basic Industries
Bendix
Bureau of Indian Affairs, U.S.
Bureau of Land Management, U.S.
Bureau of Mines, U.S.
Bureau of Reclamation, U.S.
Carlin Gold Mines
C.B. Concrete Company
Cities Service
Citizens Against Bureaucracy
Citizens for Mining
Consulting Economic Geologist*
Consulting Geologist*
Consulting Mining Engineer*
Desert Protective Council
Duval, Inc.
Eagle Picher Industries
Environmental Representatives*
Exploration Geologists of Nevada
Exploration Resources
Forest Service, U.S.
Freeport Exploration
Galli Exploration
Hecla Mining Company
Homestake Mining
IMCO Services
Inspiration Development
International Minerals and Chemicals Corporation
Lake Mead Recreation Area Representative*
Las Vegas Building Materials
Law Firm*
Lawrence Livermore Laboratory
Milchem Citizens for Mining
Mining Engineer*
Naval Air Station, U.S.
Nevada Association of Conservation Districts
Nevada Mining Association
Newmont Exploration
Pacific Coast Building Products
Phillips Petroleum
Ranchers Exploration and Development Corporation
Sierra Club, Toiyabe Chapter
Silica Miners
Silver King Mines
Siskon Corporation
Small Miners*
South Pacific Land Company
State of Nevada
Conservation and Natural Resources Division
Division of State Lands
Superior Oil
Union Carbide
University of Nevada, Mackay School of Mines
Virgin Valley Opal Miners Association
Washoe County Representative*
Washoe Jeep Squadron, Nevada Open Land
Organized Council
Wells Cargo, Inc.

New Jersey
ASARCO
Atlantic County Citizens Council on Environment
Bureau of Mines, U.S.
Citizens*
Jessie S. Morie and Son, Inc.
New Jersey Zinc Company
Ralph Clayton and Sons Sand and Gravel
State of New Jersey
Bureau of Geology and Topography
Department of Environmental Protection
Department of Transportation
Implementation and Involvement Group, Office of CZM
Tuckahoe Sand and Gravel Company

New Mexico
New Mexico Bureau of Mines and Mineral Resources

*Notes a desire not to be identified by name or that records of interview are unavailable.
North Carolina

Appalachian Regional Commission
Army Corps of Engineers, U.S.
Basnight Construction Company
Becker Sand and Gravel Company
Borden Brick and Tile Company
Boren Clay Products Company
Bureau of Mines, U.S.
Carolina Silica Corporation
Chambers of Commerce*
City and Town Representatives*
Clark Stone Company
Coastal Zone Management and Planning Council
College of Abermarle
Cotton Patch Mines
Cranberry Magnetite Corporation
Crowell Constructors, Inc.
Cumberland Paving Company
Dare County Representatives*
Dickerson, Inc.
Earl L. Saunders Excavation
Ecologist-forester*
E. L. Wade Construction Company
Feldspar Corporation
First Colony Farms Inc.
Fish and Wildlife Service, U.S.
Foote Mineral Company
Forest Service, U.S.
Glendon Pyrophyllite Company, Inc.
Harris Mining Company
Hays Corporation
Hitchcock Corporation
Hodges Equipment Company
IMC Chemical Group, Inc.
Jacob’s Creek Stone Company
J. L. Colville Construction Company
King’s Mountain Mica Company
Lawson United Feldspar & Mineral Company
Lithium Corporation of America
Martin-Marietta Aggregates
Maymead Lime Company, Inc.
Melson Sand Company
Nantahala Talc and Limestone
National Park Service—Blue Ridge Parkway, U.S.
National Park Service—Great Smoky Mountain, U.S.
National Park Service—Outer Banks, U.S.
National Sand and Gravel Association
Nello L. Teer Company
Newsome Sand and Gravel
North Carolina Aggregates Association
North Carolina Granite Corporation
Outer Banks Contractors, Inc.
Perry and Daniels Inc.
Pine Hall Brick and Pipe Company
Powhatan Mining Company
Retired Persons*
Soil Conservation Service, U.S.
Solite Corporation
Southern Aggregates, Inc.
State of North Carolina
Coastal Resources Advisory Council
Department of Transportation
Economic Coastal Management Office
Economic Coastal Resources Commission
Geologists*
Highway Department Field Office Representatives*
Land Quality Section
Mines & Quarry Division, Dept. of Labor
Natural and Economic Resources Department
North Carolina Commission of Indian Affairs
Site Planning, Parks, and Recreation Division
Statesville Brick Company
Stetson and Daniels, Inc.
Texasgulf, Inc.
University of North Carolina, Minerals Research Laboratory
University of North Carolina, Zoology Department
Wake County Planning Department
Wake Stone Corporation
Washington Chamber of Commerce

Oklahoma

Oklahoma Geological Survey

Oregon

Oregon Department of Geology and Mineral Industries

South Carolina

Addco Mining Company
Ashe Brick Company
Coastal Zone Advisory Committee
Coastal Zone Management Agency
Conservation Interests*
Gifford-Hill and Company, Inc.
Land Associates
Martin-Marietta Aggregates
National Oceanic and Atmospheric Administration, U.S.
Nantahala Talc and Limestone
National Park Service—Blue Ridge Parkway, U.S.
National Park Service—Great Smoky Mountain, U.S.
National Park Service—Outer Banks, U.S.
National Sand and Gravel Association
Nello L. Teer Company
Newsome Sand and Gravel
North Carolina Aggregates Association
North Carolina Granite Corporation
Outer Banks Contractors, Inc.
Perry and Daniels Inc.
Pine Hall Brick and Pipe Company
Powhatan Mining Company
Retired Persons*
Soil Conservation Service, U.S.
Solite Corporation
Southern Aggregates, Inc.
State of North Carolina
Coastal Resources Advisory Council
Department of Transportation
Economic Coastal Management Office
Economic Coastal Resources Commission
Geologists*
Highway Department Field Office Representatives*
Land Quality Section
Mines & Quarry Division, Dept. of Labor
Natural and Economic Resources Department
North Carolina Commission of Indian Affairs
Site Planning, Parks, and Recreation Division
Statesville Brick Company
Stetson and Daniels, Inc.
Texasgulf, Inc.
University of North Carolina, Minerals Research Laboratory
University of North Carolina, Zoology Department
Wake County Planning Department
Wake Stone Corporation
Washington Chamber of Commerce

Utah

Utah Geological and Mineral Survey

*Notes a desire not to be identified by name or that records of interview are unavailable.
Virginia

American Mining
Baillo Sand Company, Inc.
Bureau of Land Management, U.S.
Chickahominy Sand & Gravel
Citizens*
Corps of Engineers, U.S.
Eastern Wildlife Refuge Representatives*
Environmental Consulting Firms*
Fish and Wildlife Service, U.S.—Great Dismal Swamp Refuge
Forest Service, U.S.
Geological Survey, U.S.
Gunter and Son, Inc.
J. C. Jones Sand Company
National Park Service, U.S.
Old Dominion University
R. A. Crewes Sand Pit
Sand and Gravel Operators*
State of Virginia
Attorney General Office

Wyoming

Coastal Resource Management Program
Commerce and Resources Department
Conservation and Economic Development Department
Marine Resources Commission
Mineral Resources Division
Suffolk County Government, Office of City Manager
Virginia Institute of Marine Sciences
William and Mary College

Bureau of Land Management, U.S.
Citizens of Jackson Hole*
Forest Service, U.S.
Ranchers*
State of Wyoming
Environmental Quality Department
Land Commission
Wyoming Conservation Commission
Wyoming Oil and Gas Conservation Commission
University Associate Professor*

*Notes a desire not to be identified by name or that records of interview are unavailable.