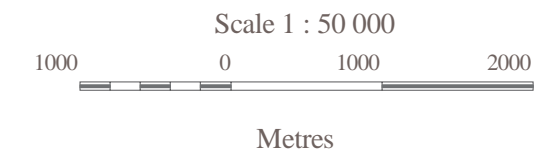


MINERAL RESOURCE LAND-USE MAP
OF THE CAPE SABLE ISLAND AREA (20P/5) (1:50 000)

OFM ME 2000-4 (20P/5)
Version 2

20P/5
Cape Sable Island

Compiled by
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Halifax, Nova Scotia



A total of 99 thematic (1:50 000 scale) Mineral Resource Land Use (MRLU) maps combine to form a thematic atlas, which covers the province of Nova Scotia including all near-shore islands and Sable Island. The main purpose in preparing this Atlas is to provide the public with a simple geographic compilation of mineral resource and related land use information at a reasonably detailed scale. A key objective is to create a useful reference for practitioners working in land-use and environmental planning, geotechnical firms and groups involved in community economic development.

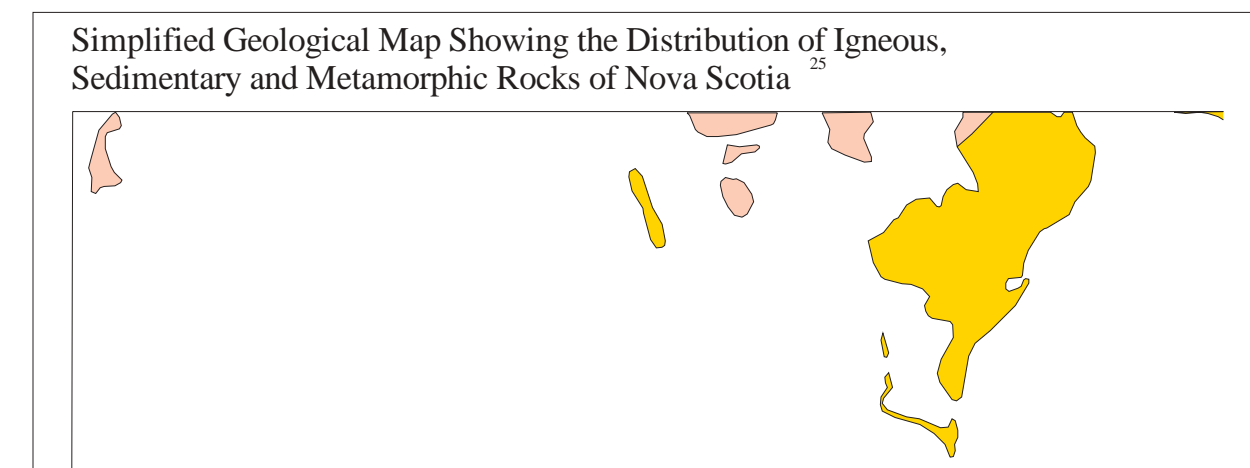
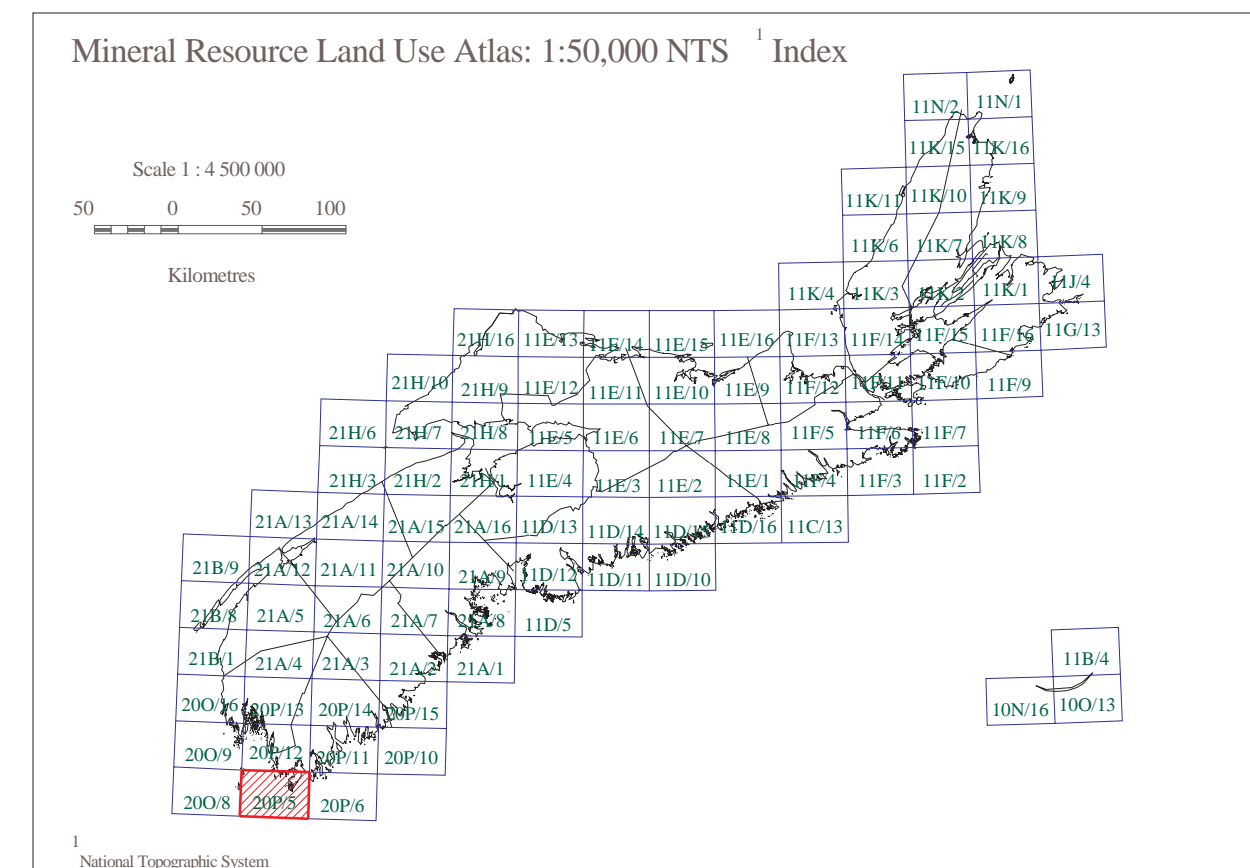
The MRLU maps display the location and distribution of mineral and energy resources and related activities as well as aspects of environmental geology that relate to land-use and environmental planning. Special land-use designations on Crown and some privately-owned land are shown to indicate how Nova Scotia's land base varies regarding the ability of mineral resource interests to access land and hold secure tenure. Please note: Because these maps were compiled from many different data sources with different scales and projections, some of the overlapping thematic data appears "shifted" relative to each other.

Over the course of developing this project, several companies have contributed to the preparation of these maps, which involved gathering and organizing data from databases managed by the department as well as other government departments, agencies and non-government organizations. The manual compilers include: David Hopper, Cheryl Dubois, Geoffrey Katz, Hugh Gilis, Fred Bonner, Jane Webster, and Mai Nguyen. The digital compilers include: Fred Bonner, Brian Fisher, Beth Wu, Lisa Hills, Angela Murphy and Jeffrey McKinnon. Orders for maps and data layers should be directed to: Nova Scotia Department of Natural Resources, Library, PO Box 698, Halifax, Nova Scotia, B3J 2Y9. Telephone: (902) 424-8188; Fax: (902) 424-3375; E-Mail: mrd@ns.gov.ns.ca

Base data derived from the Nova Scotia Topographic Database (NSTDB). Copyright Her Majesty the Queen in Right of the Province of Nova Scotia. The NSTDB is available from the Service Nova Scotia & Municipal Relations, Nova Scotia Geomatics Centre (NSGCG), Amherst, Nova Scotia.

This map was generated from information stored in the Mineral Resources Branch (MRB) Geographic Information System of the Nova Scotia Department of Natural Resources (NSDNR).

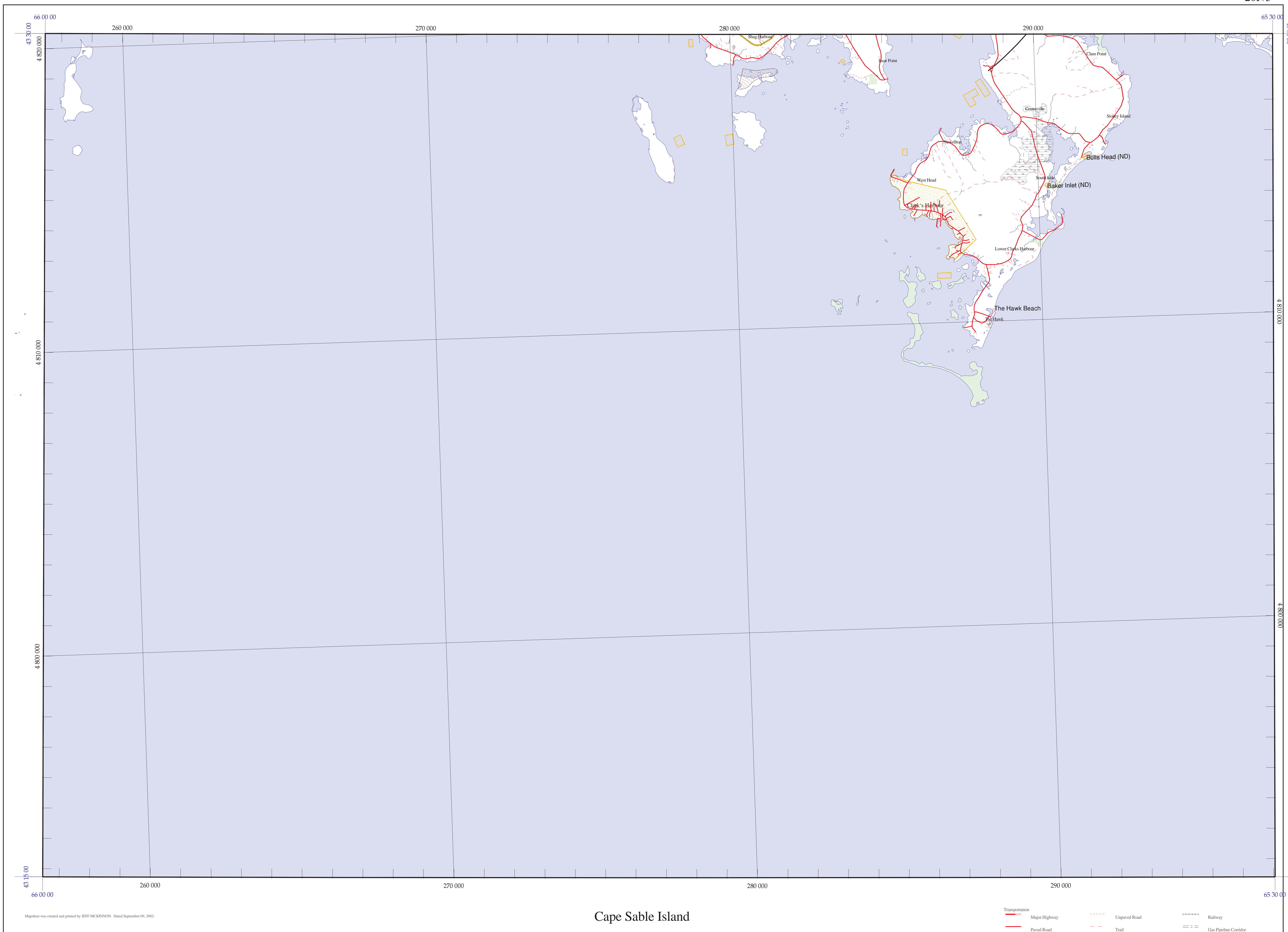
The thematic information shown on this map came from many different government and non-government sources. The NSDNR accepts no liability for errors, deficiencies or omissions on the map. Since land-use information is dynamic and subject to change over time, updated versions of this map will be provided in the future. This map should not be used for legal purposes and should only be used at the scale portrayed on the map.



Scale 1:265 000

Unconsolidated soils	Metamorphic	Igneous
eg. siliceous sand, loess clay Commodities: eg. siliceous sand, loess clay	Metasediments and Metavolcanics, Hydrothermal eg. slate, marble, mica, garnet, amphibole Commodities: eg. marble, base metals, gold	Intuitive eg. granite, gneiss/diabase, diorite Commodities: eg. building stone, aggregate, iron, copper, lead, zinc
Sedimentary Clastic and Organic eg. sandstone, silt, shales, shale, conglomerate Commodities: eg. coal, building stone, barite, copper, lead, zinc, iron, shale	Metasediments: Gold-bearing metasediments eg. quartzite, quartzite, slate Commodities: eg. gold, aggregate, tungsten, zinc, lead	Volcanic eg. basalt, rhyolite Commodities: eg. aggregate, molasses, copper, lead, zinc
Evaporites eg. gypsum, salt, limestone, anhydrite Commodities: eg. gypsum, salt, limestone, anhydrite	Metasediments: Sulphide-bearing metasediments eg. marble Commodities: base metals	

References and Notes
Mineral occurrence database, NSDNR, 1999. Digital Geoscience Data Product DP0018, Version 3, 1998. This database can be used with EP016, the Mineral Occurrence Query Program, which is a viewing and searching program with instructional manual for use with Mineral Occurrence Database.
See: <http://www.gov.ns.ca/naturalresources/minerals/>
Claim Reference Maps, Mineral and Petroleum Titles, NSDNR, undated, Scale 1:31 690.
Gold and iron districts are no longer a legal entity, although the terms is still used in the literature, and so the former surveyed district boundaries are not shown. Instead a polygon is shown to flag the former mining camps and encompass most of the historic underground workings and related mineral occurrences. Digital data set provided by NSDNR, Mineral Resources Branch.
Evaluation of Nova Scotia's Potential Resources, A.R. Anderson and W. A. Brotham, 1988. NSDNR Bulletin ME 09/09 and 3 maps, scale 1:250 000.
Aggregate Resources Map, Cape Breton Island, W.J. Wright, 1985. NSDNR Maps ME 1985-3, 1985-4, 1985-5 and 1985-6. Scale 1:125 000.000 and shows the type, quality and observed thickness of all sand and gravel deposits.
*Aggregates Potential of Cumberland and Colchester Counties, 14 Preliminary Map Sheets, G. Pime, 1991. NSDNR ODM ME 1991-5 to ODM ME 1991-18. Scale 1:50 000.
Sand and Gravel Occurrences of Nova Scotia, J.F. Fowler and G.B. Dickie, 1978. NSDNR OPR 378 (7) maps, Scale 1:50 000.
Digital data set provided by NSDNR, Mineral Development and Policy Section.
Surface Petroleum Shows, Outcrop Nova Scotia, G. Short, 1986. NSDNR IS ME 11, March 1986, pp33. See: <http://www.gov.ns.ca/naturalresources/pubs2/2mapr.htm>
Petroleum Wells and Fields with Petroleum Significance, Outcrop Nova Scotia, P.G. Macdonald, G. Short, and D. Walker, 1986. NSDNR IS ME 10, pp194. See: <http://www.gov.ns.ca/naturalresources/pubs2/2mapr.htm>
*Databases: NSDNR 2000. Digital Geoscience Data Product DP0013, Databases database, Version 2, 2000. Databases jobs and include only those beds with lithologic logs or overburden thicknesses. See: <http://www.gov.ns.ca/naturalresources/pubs2/2mapr.htm>
*Geological Map of the Province of Nova Scotia, J. D. Kerpis, 2000. NSDNR Map ME 2000-1, Scale 1:500 000. Digital Geoscience Data Product D00-01, Version 1, 2000. See: <http://www.gov.ns.ca/naturalresources/pubs2/2mapr.htm>
*Units showing sulphide bearing slates are mainly Early Windsor Formation rocks which may contain bands of arsenic-bearing slate which will likely produce acid drainage.
*Units showing potential karst areas are mainly Early Windsor Formation rocks comprised of gypsum, anhydrite and limestone which under certain conditions can develop karst.
*Geological Highway Map of Nova Scotia, Second Edition, H.V. Danovics, Jr., and R. G. Grantam, 1989. Scale 1:500 000. NSDNR, OPR ME 1989-1 (Automated Geoscience Special Publication Number 1). Note: the sites shown are meant to provide additional information for corridor promotion.
*Simplified geologies from showing the distribution of igneous, sedimentary and metamorphic rocks of Nova Scotia, Bonner, F.J., Fisher, B.E. and Hopper, D.B., 2000. Map in progress, scale 1:500 000.
*Data sets digitized from maps provided by the Canadian Department of Natural Resources.
*Data set provided by the Nova Scotia Department of Agriculture and Fisheries.
** "Reservoir and Limited Use Land Database, NSDNR, Digital Data Product DP ENR 000, 2002. See: <http://www.gov.ns.ca/naturalresources/pubs2/2mapr.htm>
*NSDNR, Renewable Resources Branch, Parks and Recreation Division.
*NSDNR, Land Services Branch, Surveys Division.
*Parks Canada
*NSDNR, Renewable Resources Branch, Wildlife Division.
*NSDNR and Canadian Wildlife Services.
*Nature Conservancy of Canada.
*NSDNR, Mineral Resources Branch.



Cape Sable Island

MINERAL AND AGGREGATE RESOURCES

- Mineral Occurrence (metallic, non-metallic)
- Active Mine/Quarry (metallic, non-metallic) (lease/permit boundary)
- Coal Seam Trace
- Fuel Peat Occurrence
- Gold Mining Area (former gold district)
- Iron Mining Area (former iron district)
- Crown Limestone Area
- Sand/Gravel Deposit
- Aggregate Pit/Quarry
- Horicultural Peat Occurrence

ENERGY RESOURCES

- Active Coal Mine (lease/permit boundary)
- Abandoned Underground Mine Opening (metallic, non-metallic, coal)
- Abandoned/Inactive Surface Mine/Quarry (Data is not available at this time)
- Geothermal Resource Area
- Reclaimed Surface Mine Site (Data is not available at this time)
- Drill Hole
- Well /Drill hole with Petroleum Significance
- Underground Gas Storage (exploration area, exploration permit)
- Geological Contacts
- Faults

GEOLOGY FOR LAND-USE / ENVIRONMENTAL PLANNING

- Areal Extent of Underground Coal Mine Workings
- Potential Karst Area
- Exposed Bedrock/Thin Till Cover
- Drumlin
- Flood Risk Area (20 yr. flood level)
- Water Supply Watershed Intake
- Water Supply Well (Municipal)
- Special Geological Interest
- Private Land

LAND DESIGNATION AND ACCESS

- Protected Area (Strictly no access to commercial and industrial use by order of legislation, regulation, policy or private interest.)
- National Parks and Adjacent Areas, National Historic Site and Parks, National Wildlife Management Areas, National Defence Land, National Wildlife Sanctuaries, Designated Provincial Park and Park Reserve, Wilderness Areas, Protected Beaches, Mineral Claims, Nature Conservancy of Canada (NCC) Areas under the Special Places Act, Flight 111 Act.
- Limited Access Area (Access is possible although certainty of tenure will vary. Areas are usually identified for specific interests and access permission could be limited by owner, operator, or special interest depending upon the proposed activity.)
- Provincial Game Sanctuaries, Provincial Wildlife Management Areas, Water Supply Areas (Designated and Non-Designated), Canadian Heritage Rivers, Indian Reserve Lands, Urban Areas, Sites of Ecological Significance (SES), Peggy's Cove Preservation Area, Aquacultural Areas, Pipeline Corridor, Operational Non-Designated Parks and Reserves (NCC), Non-Designated Rail Corridors, Rammed Wetland Sites, Eastern Habitat Joint Venture Lands (EHJV) and Trails Act Lands.
- General Access Area (This includes all province-owned land that has not been designated as protected or limited use.)
- Privately Owned Land