

NOVASCOTIA
Natural Resources
MINERAL RESOURCES BRANCH

**MINERAL RESOURCE LAND-USE MAP
OF THE CAPE NORTH AREA (11N/1) (1:50 000)**
OFM ME 2000-4 (11N/1)
Version 2

**11N/1
Cape North**

Compiled by
D.B. Hopper, F.J. Bonner, B.E. Fisher and A.N. Murphy
Halifax, Nova Scotia

Scale 1 : 50 000

Metres

A total of 59 planimetric (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.

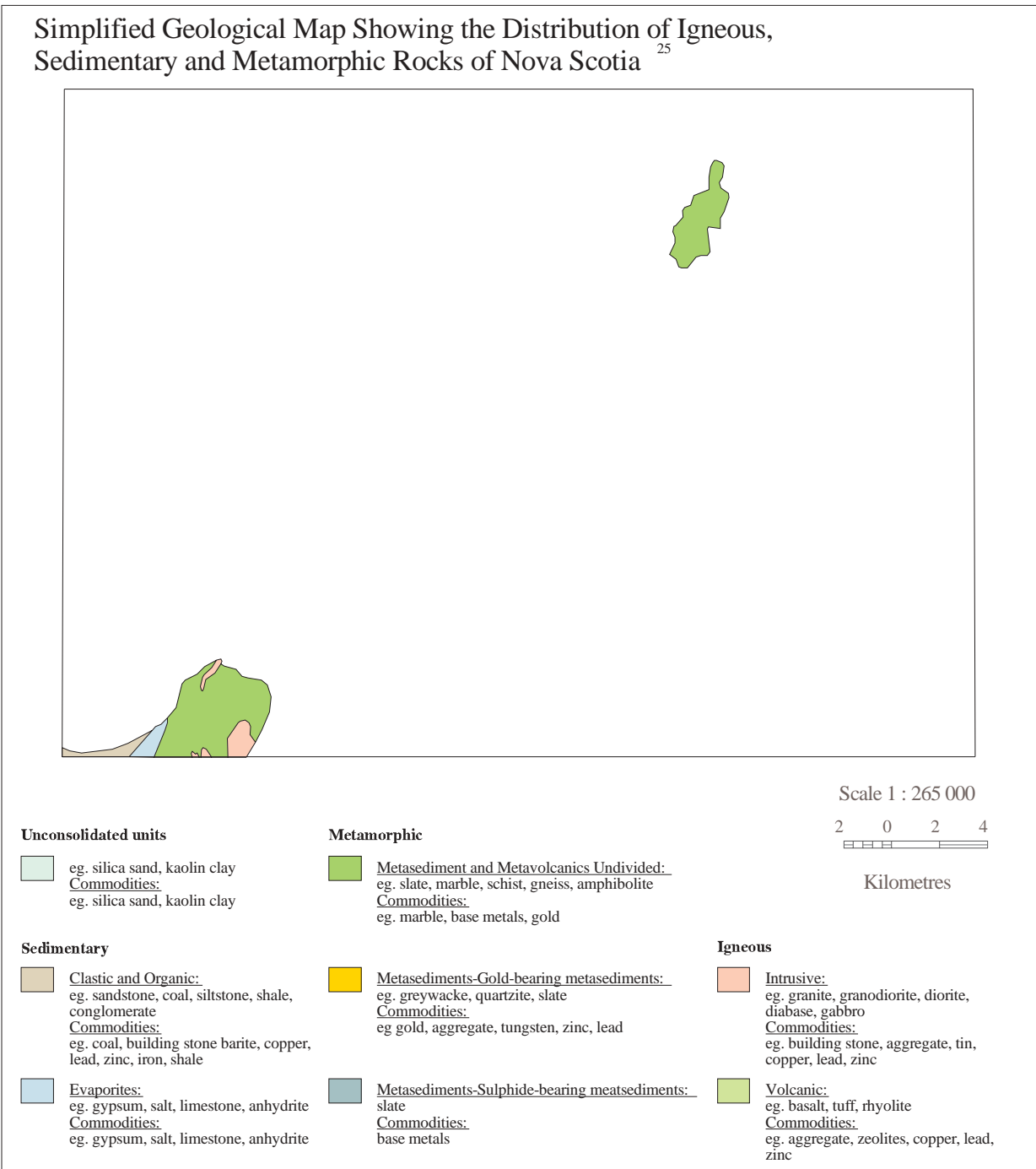
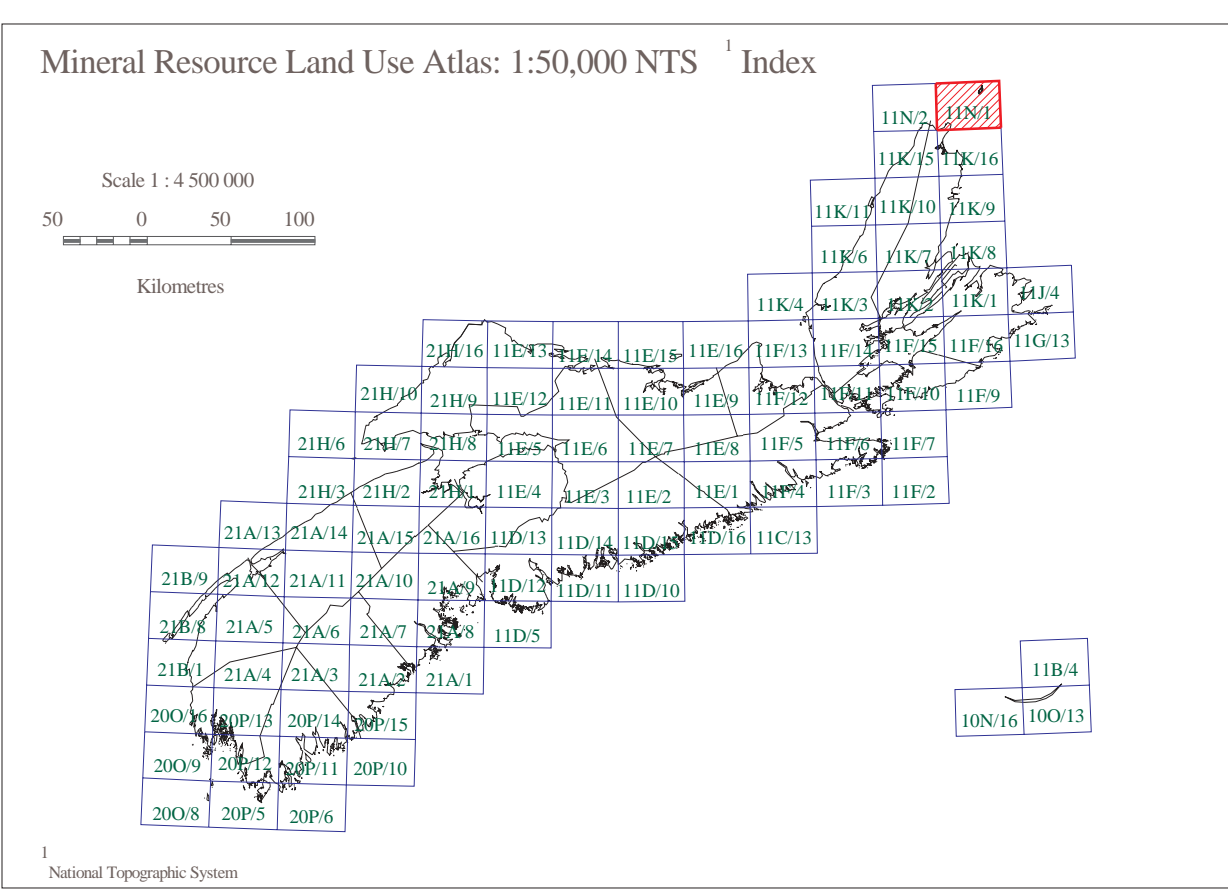
The MRLU maps display the location and distribution of mineral and energy resources and related activities as well as aspects of environmental geology that relate to land-use and environmental planning. Special land-use designations on Crown and some privately-owned land are shown to indicate how Nova 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 "dilated" 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 mineral complexes include: David Hopper, Cheryl Dubois, Geoffrey Katz, Hugh Gillis, Fred Bonner, Jane Webster, and Mia Nyman. The digital complex includes: Fred Bonner, Brian Fisher, Beth Wile, Lou Hills, Angela Murphy and Jeffrey McKinnon. Details for maps and data layers should be directed by: 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: mrdb@ns.gov.ns.ca.

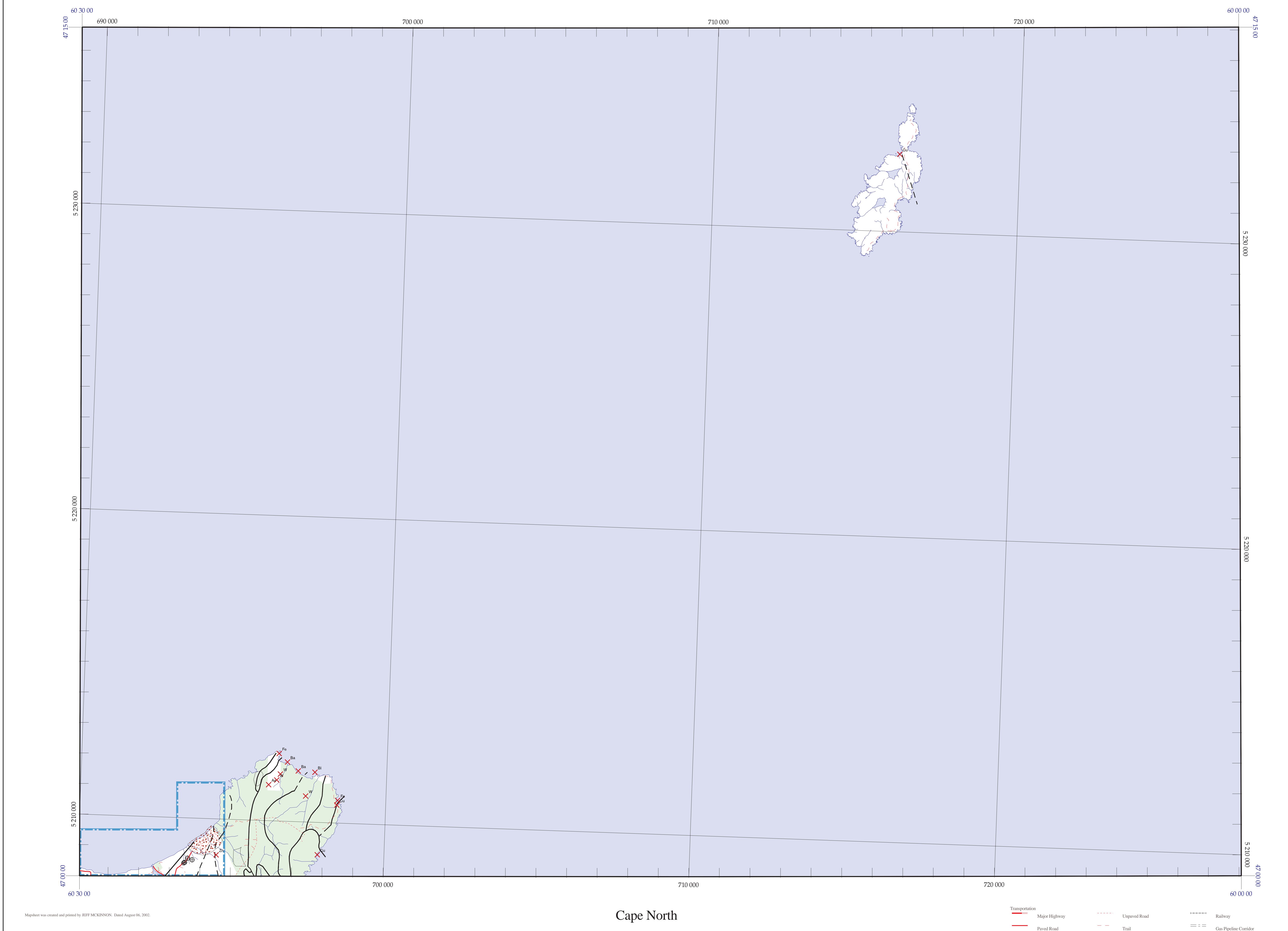
Base data derived from the Nova Scotia Topographic Database (NSTDB). Copyright Her Majesty the Queen in Right of the Province of Nova Scotia. The NSTDB is available from the Service Nova Scotia & Municipal Relations, Nova Scotia Geomatics Centre (NSGC), Antigonish, Nova Scotia.

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 faults 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.



- References and Notes**
- Mineral occurrence database. NSDNR, 1999. Digital Geoscience Data Product DP0010, Version 3, 1998. This database can be used with FPOW, 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 term 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 basic, 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. Broughan, 1988. NSDNR Bulletin ME 99/09 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 1:122 000.000 and shows the type, quality and observed thickness of sand and gravel deposits.
- Aggregate Potential of Cumberland and Colchester Counties, 14 Preliminary Map Sheets, G. Price, 1991. NSDNR OFM ME 1991-5 to OFM ME 1991-18. Scale 1:50 000.
- Sand and Gravel Occurrences of Nova Scotia, J.F. Fowler and G.B. Dickie, 1978. NSDNR ORR 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 ES ME 11, March 1986, pp33. See: <http://www.gov.ns.ca/naturalresources/petroleum/>
- Petroleum Wells and Drillholes with Petroleum Significance, Outcrop Nova Scotia, P.C. Maddison, G. Short, and D. Walker, 1986. NSDNR ES ME 10, pp194. See: <http://www.gov.ns.ca/naturalresources/petroleum/>
- Abandoned Mine Openings Database, NSDNR, 1999. Digital Geoscience Data Product DP0010, Version 2, 2000. Drillholes plotted include only those holes with lithologic logs or overburden thicknesses. See: <http://www.gov.ns.ca/naturalresources/petroleum/>
- Districts database. NSDNR, 2000. Digital Geoscience Data Product DP0010, Districts database, Version 2, 2000. Districts plotted include only those holes with lithologic logs or overburden thicknesses. See: <http://www.gov.ns.ca/naturalresources/petroleum/>
- Geological Map of the Province of Nova Scotia, J. D. Kerrick, 2000. NSDNR Map ME 2000-1, Scale 1:300 000. Digital Geoscience Data Product DP0001, Version 1, 2000. See: <http://www.gov.ns.ca/naturalresources/petroleum/>
- Units showing sulphide bearing slates are mainly Halifax 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 which comprise of psammite, sandstone and limestone which under certain conditions can develop sinkholes and cave systems.
- Geological Map of the Province of Nova Scotia, R.R. Sims, H. Carley and Y. Brown, 1992. NSDNR Map ME 1992-3, Scale 1:500 000. Digital Geoscience Data Product DP0003, Version 1, 2000. See: <http://www.gov.ns.ca/naturalresources/petroleum/>
- Digital Data set provided by Service Nova Scotia & Municipal Relations, Nova Scotia Geomatics Centre, and Department of Environment and Labour.
- Geological Highway Map of Nova Scotia, Second Edition, H.V. Donohue, Jr., and R. G. Greenham, 1989. Scale 1:200 000. NSDNR, OF ME 1989-1. Update Geoscience Data Product DP0002, Version 2, 2000. (Note: the sites shown are meant to provide additional information for contour promotion.)
- Simplified geological map showing the distribution of igneous, sedimentary and metamorphic rocks of Nova Scotia, Hopper, 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.
- Renewable and Limited Use Land Database, NSDNR, Digital Data Product DP DNR 002, 2002. See: <http://www.gov.ns.ca/naturalresources/petroleum/>
- NSDNR, Renewable Resources Branch, Parks and Recreation Division.
- NSDNR, Land Services Branch, Survey Division.
- Nova Scotia Department of Environment and Labour, Protected Areas Division.
- NSDNR, Land Services Branch, Survey Division.
- Parks Canada
- NSDNR, Renewable Resources Branch, Wildlife Division.
- NSDNR and Canadian Wildlife Services.
- Nature Conservancy of Canada.
- NSDNR, Mineral Resources Branch.



MINERAL AND AGGREGATE RESOURCES	ENERGY RESOURCES	GEOLOGY FOR LAND-USE / ENVIRONMENTAL PLANNING	LAND DESIGNATION AND ACCESS
✕ ✕Mineral Occurrence (metallic, non-metallic) ¹	▨Active Coal Mine ² (lease/permit boundary)	▨Areal Extent of Underground Coal Mine Workings ⁸	.....Protected Area
▨Active Mine/Quarry ² (metallic, non-metallic) (lease/permit boundary)	—Coal Seam Trace ⁹	▨Abandoned Underground Mine Opening ¹¹ (metallic, non-metallic, coal)	.....Exposed Bedrock/Thin Till Cover ¹⁶
▨Gold Mining Area ³ (former gold district)	▨Fuel Peat Occurrence ⁴	▨Abandoned/Inactive Surface Mine/Quarry ⁸ (Data is not available at this time)	.....Drumlin ¹⁰
▨Iron Mining Area ³ (former iron district)	▨Geothermal Resource Area ²	▨Reclaimed Surface Mine Site ⁸ (Data is not available at this time)	.....Flood Risk Area ¹⁷ (20 yr. flood level)
▨Crown Limestone Area ²	▲Surface Petroleum Show ⁹	⊕Drill Hole ¹²	.....Limited Access Area
▨Sand/Gravel Deposit ^{5A7}	●Well /Drill hole with Petroleum Significance ¹⁰	▨Sulphide-bearing Slate ^{13A1}	.....Protected Area
▨Aggregate Pit/Quarry ^{5A7}	▨Underground Gas Storage ² (exploration area, exploration permit)	—Geological Contacts ²⁰	.....Exposed Bedrock/Thin Till Cover ¹⁶
▨Horticultural Peat Occurrence ⁴	—Faults ¹¹	.....Water Supply Watershed Intake ^{17A9} (→)	.....National Parks and Adjuncts ¹⁸
		.....Water Supply Well ¹⁷ (Municipal)	.....Designated Provincial Park and Park Reserve ¹⁹
		★Special Geological Interest ¹⁸	.....Wilderness Areas ²⁰
			.....Protected Beaches, Mineral Closure, Marine Cosequency of Canada (NCC) ²¹
			.....Areas under the Special Places Act ²²
			.....Limited Access Area
			.....Provincial Game Sanctuaries ²³
			.....Provincial Wildlife Management Areas ²⁴
			.....Water Supply Areas (Designated and Non-Designated) ²⁵
			.....Canadian Heritage Rivers ²⁶
			.....Indian Reserve Lands ²⁷
			.....Lobby Areas ²⁸
			.....Sites of Ecological Significance (SES) ²⁹
			.....Praeger's Cove Preservation Area ³⁰
			.....Aquacultural Areas ³¹
			.....Pipeline Corridor ³²
			.....Operational Non-Designated Parks and Reserves (NCC) ³³
			.....Non-Designated Rail Corridors ³⁴
			.....Ramsar Wetland Sites ³⁵
			.....Leastern Habitat Joint Venture Lands (EHJV) ³⁶
			.....Trails Act Lands ³⁷
			.....General Access Area
			.....Special Geological Interest ¹⁸
			.....Privately Owned Land