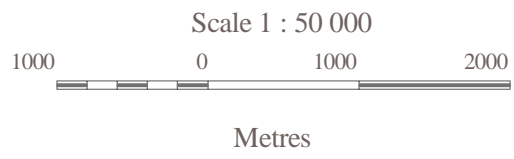


MINERAL RESOURCE LAND-USE MAP OF THE SABLE ISLAND AREA (11B/4) (1:50 000)

OFM ME 2000-4 (11B/4) Version 2

11B/4 Sable Island

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



A total of 98 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.

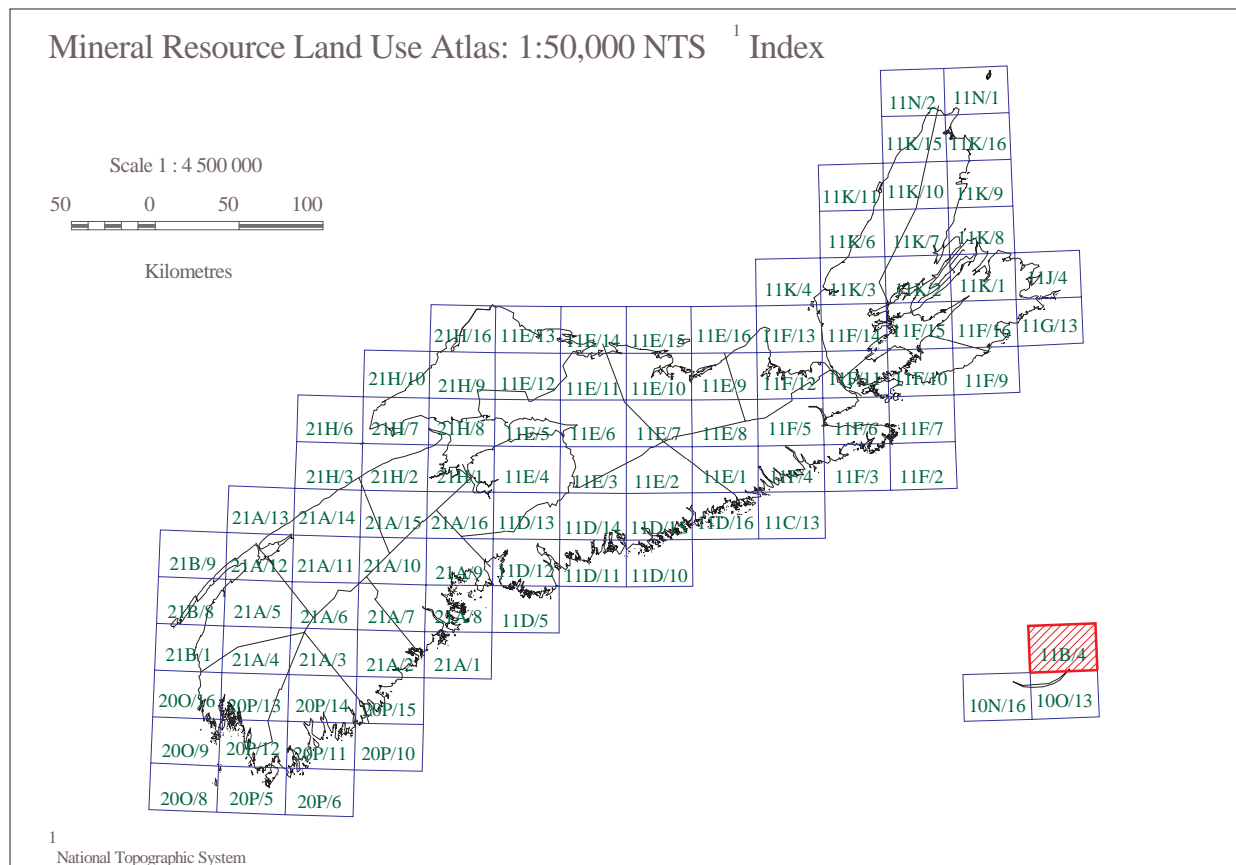
The MRLU maps display the location and distribution of mineral and energy resources and related activities as well as aspects of environmental geology that relate to land-use and environmental planning.

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.

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), 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 faults on the map.



Simplified Geological Map Showing the Distribution of Igneous, Sedimentary and Metamorphic Rocks of Nova Scotia



References and Notes

1. Mineral occurrence database, NSDNR, 1999. Digital Geoscience Data Product DP0018, Version 3, 1998. This database can be used with EP0014, the Mineral Occurrence Query Program, which is a viewing and searching program with instructional manual for use with Mineral Occurrence Database.

2. Claim Reference Map, Mineral and Petroleum Titles, NSDNR, undated. Scale: 1:31,600.

3. Coal and iron districts are no longer a legal entity, although the terms will still be in the literature, and so the former surveyed district boundaries are not shown. Instead a polygon is shown to flag the former mining areas and encompasses most of the historic underground workings and related mineral occurrences. Digital data set provided by NSDNR, Mineral Resources Branch.

4. Evaluation of Nova Scotia's Petroleum Resources, A.R. Anderson and W. A. Broughton, 1988. NSDNR Bulletin ME 19/10 and 3 maps, scale: 1:250,000.

5. 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 (locates and shows the type, quality and observed thickness of sand and gravel deposits).

6. Aggregate Potential of Cumberland and Colchester Counties, 14 Preliminary Map Sheets, G. Prime, 1991. NSDNR OPR ME 1991-5a OPR ME 1991-18. Scale: 1:50,000.

7. Sand and Gravel Occurrences of Nova Scotia, J.F. Fowler and G.B. Dickie, 1978. NSDNR OPR 378 (70 maps). Scale: 1:50,000.

8. Digital data set provided by NSDNR, Mineral Development and Policy Section.

9. Surface Petroleum Shows, Onshore Nova Scotia, G. Short, 1986. NSDNR IS ME 11, March 1986, pp33. See: http://www.gov.ns.ca/nat/techpubs/33me.htm

10. Petroleum Wells and Driftholes with Petroleum Significance, Onshore Nova Scotia, P.G. McMillan, G. Short, and D. Walker, 1986. NSDNR IS ME 10, pp104. See: http://www.gov.ns.ca/nat/techpubs/10.htm

11. Abandoned Mine Openings Database, NSDNR, 1999. Digital Geoscience Data Product DP0110, Version 2, 2000. See: http://www.gov.ns.ca/nat/techpubs/33me.htm

12. Yrstick database, NSDNR, 2000. Digital Geoscience Data Product DP0103, Driftholes Database, Version 2, 2000. Driftholes plotted include only those holes with lithologic logs or overburden thickness. See: http://www.gov.ns.ca/nat/techpubs/33me.htm

13. Geological Map of the Province of Nova Scotia, J. D. Kerlin, 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/nat/techpubs/33me.htm

14. Units showing sulphide bearing slates are mainly Halifax Formation rocks which may contain bands of arsenic-bearing slates which will likely produce acid drainage.

15. Units showing potential karst areas are mainly early Windsor Formation rocks comprised of gypsum, anhydrite and limestone which under certain conditions can develop sinkholes.

16. Simplified geological map 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.

17. Data sets digitized from maps provided by the Canadian Department of Natural Defence.

18. Data set provided by the Nova Scotia Department of Agriculture and Fisheries.

19. "Reclaimed and Limited Use Land Database, NSDNR, Digital Data Product DP 19NR002, 2002. See: http://www.gov.ns.ca/nat/techpubs/19NR002.htm, data provided by:

NSDNR, Renewable Resources Branch, Parks and Recreation Division.

Nova Scotia Department of Environment and Labour, Protected Areas Division.

NSDNR, Land Services Branch, Surveys Division.

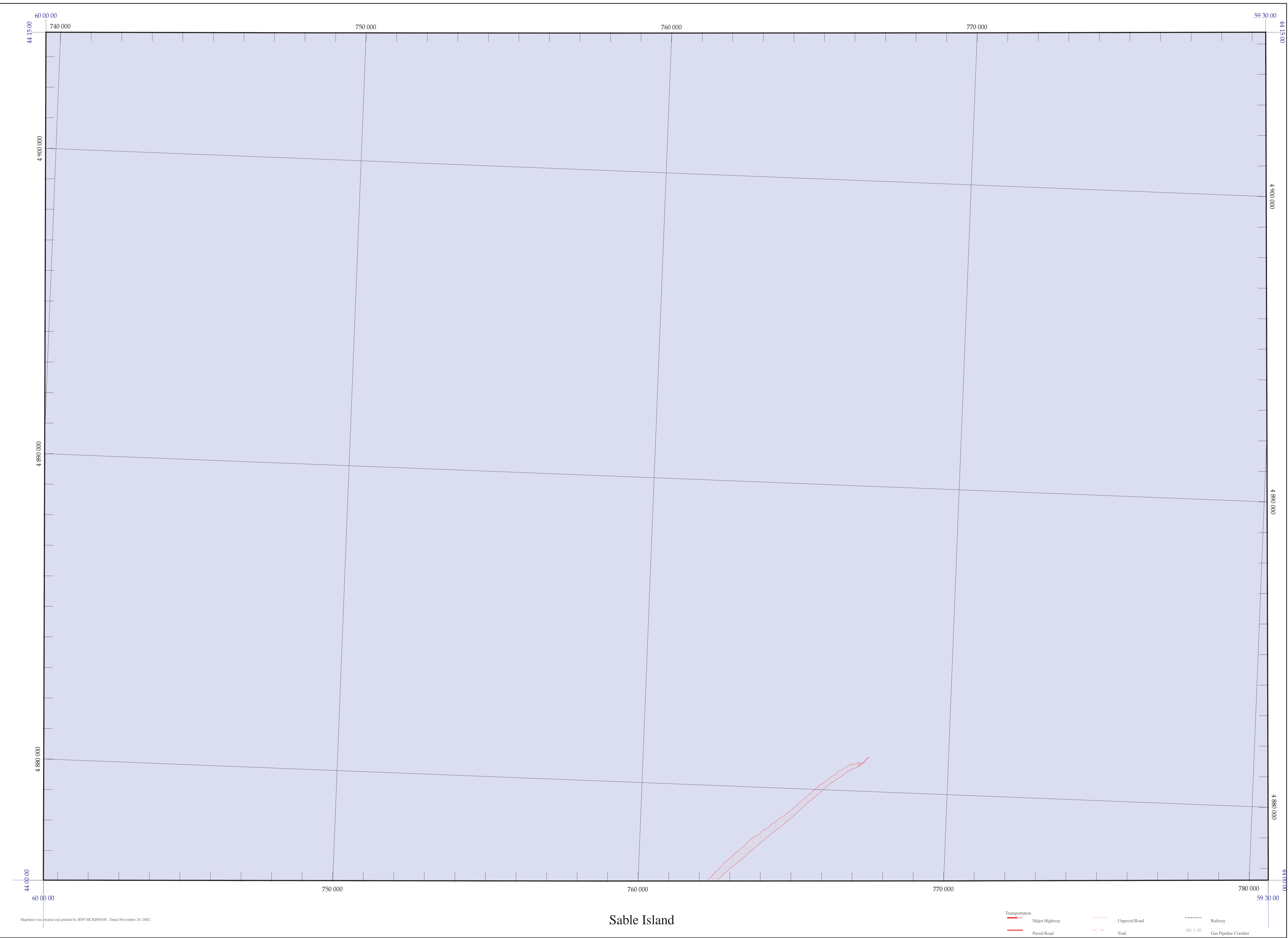
Parks Canada.

NSDNR, Renewable Resources Branch, Wildlife Division.

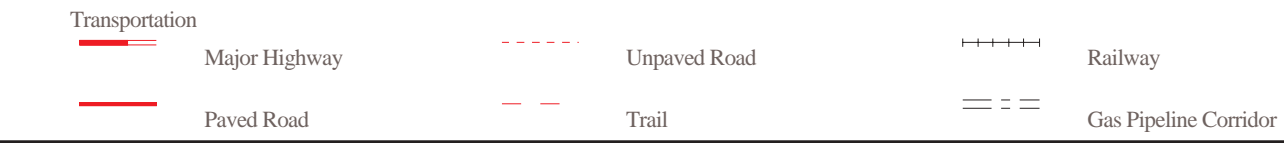
NSDNR and Canadian Wildlife Services.

Nature Conservancy of Canada.

NSDNR, Mineral Resources Branch.



Sable Island



MINERAL AND AGGREGATE RESOURCES

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

ENERGY RESOURCES

- Active Coal Mine (lease/permit boundary)
Coal Seam Trace
Fuel Peat Occurrence
Geothermal Resource Area
Surface Petroleum Show
Well /Drill hole with Petroleum Significance
Underground Gas Storage (exploration area, exploration permit)
Horticultural Peat Occurrence

GEOLOGY FOR LAND-USE / ENVIRONMENTAL PLANNING

- Areal Extent of Underground Coal Mine Workings
Abandoned Underground Mine Opening (metallic, non-metallic, coal)
Abandoned/Inactive Surface Mine/Quarry (Data is not available at this time)
Reclaimed Surface Mine Site (Data is not available at this time)
Drill Hole
Sulphide-bearing Slate
Geological Contacts
Faults

LAND DESIGNATION AND ACCESS

- Protected Area (Strictly no access to commercial and industrial use by order of legislation, regulation, policy or private interest.)
Exposed Bedrock/Thin Till Cover
Drumlin
Flood Risk Area (20 yr. flood level)
Water Supply Watershed Intake
Water Supply Well (Municipal)
Special Geological Interest
Privately Owned Land