Nova Scotia Department of Natural Resources
Mineral Resources Branch

Open File Map ME 2008-3

Groundwater Regions Map of Nova Scotia

G.W. Kennedy and J. Drage

Scale 1:500 000

25 0 25 50 km

Halifax, Nova Scotia
2008

NOVA SCOTIA
Environment
Natural Resources

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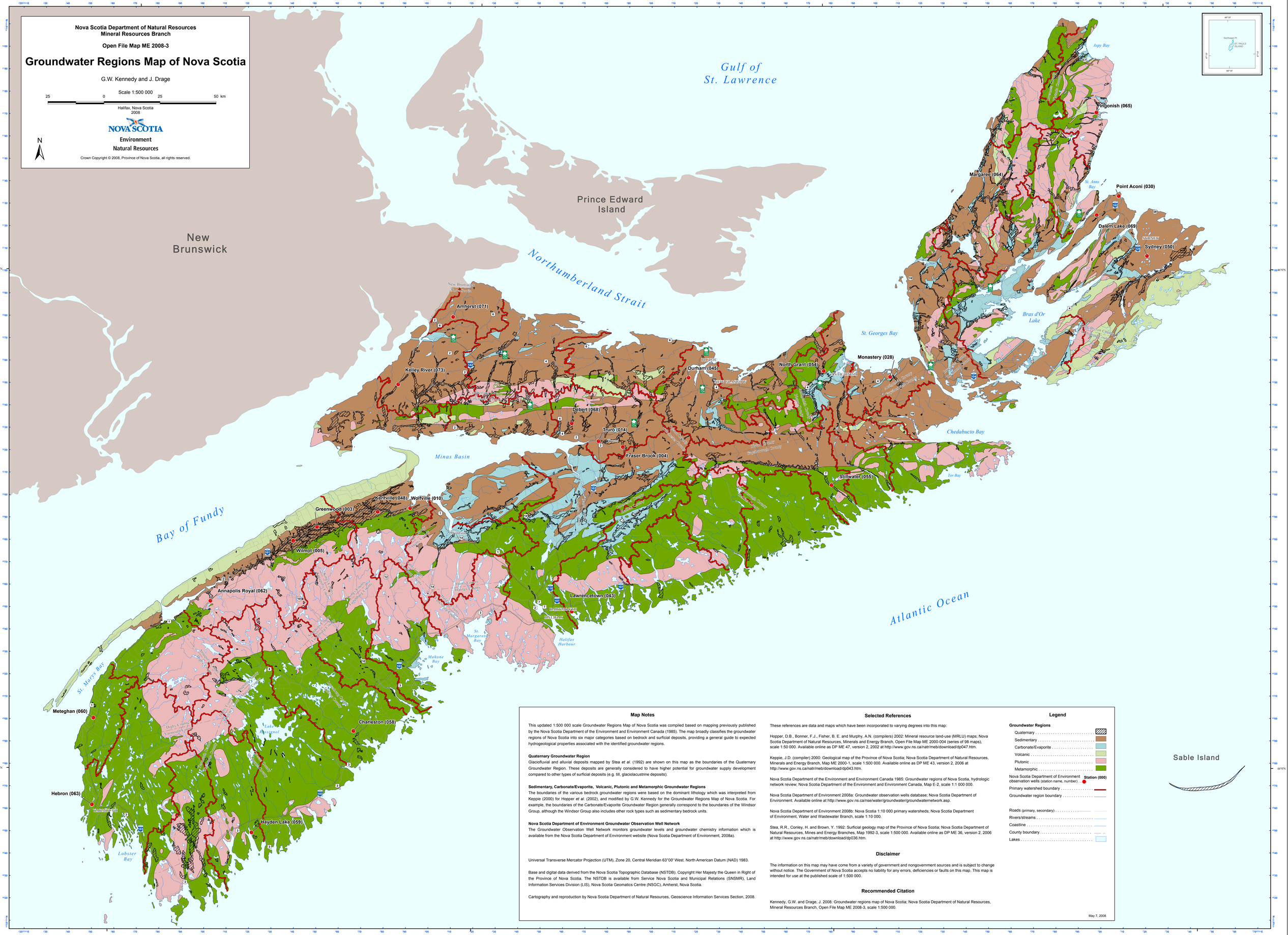

Map Notes

This updated 1:500 000 scale Groundwater Regions Map of Nova Scotia was compiled based on mapping previously published by the Nova Scotia Department of the Environment and Environment Canada (1985). The map broadly classifies the groundwater regions of Nova Scotia into six major categories based on bedrock and surficial deposits, providing a general guide to expected hydrogeological properties associated with the identified groundwater regions.

Quaternary Groundwater Region
Glaciofluvial and alluvial deposits mapped by Stea *et al.* (1992) are shown on this map as the boundaries of the Quaternary Groundwater Region. These deposits are generally considered to have higher potential for groundwater supply development compared to other types of surficial deposits (e.g. till, glaciolacustrine deposits).

Sedimentary, Carbonate/Evaporite, Volcanic, Plutonic and Metamorphic Groundwater Regions
The boundaries of the various bedrock groundwater regions were based on the dominant lithology which was interpreted from Keppie (2000) for Hopper *et al.* (2002), and modified by G.W. Kennedy for the Groundwater Regions Map of Nova Scotia. For example, the boundaries of the Carbonate/Evaporite Groundwater Region generally correspond to the boundaries of the Windsor Group, although the Windsor Group also includes other rock types such as sedimentary bedrock units.

Nova Scotia Department of Environment Groundwater Observation Well Network
The Groundwater Observation Well Network monitors groundwater levels and groundwater chemistry information which is available from the Nova Scotia Department of Environment website (Nova Scotia Department of Environment, 2008a).

Universal Transverse Mercator Projection (UTM), Zone 20, Central Meridian 63°00' West. North American Datum (NAD) 1983.

Base and digital 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 Service Nova Scotia and Municipal Relations (SNSMR), Land Information Services Division (LIS), Nova Scotia Geomatics Centre (NSGC), Amherst, Nova Scotia.

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Selected References

These references are data and maps which have been incorporated to varying degrees into this map:

Hopper, D.B., Bonner, F.J., Fisher, B. E. and Murphy, A.N. (compilers) 2002: Mineral resource land-use (MRLU) maps; Nova Scotia Department of Natural Resources, Minerals and Energy Branch, Open File Map ME 2000-004 (series of 98 maps), scale 1:50 000. Available online as DP ME 47, version 2, 2002 at http://www.gov.ns.ca/natr/meb/download/dp047.htm.

Keppie, J.D. (compiler) 2000: Geological map of the Province of Nova Scotia; Nova Scotia Department of Natural Resources, Minerals and Energy Branch, Map ME 2000-1, scale 1:500 000. Available online as DP ME 43, version 2, 2006 at http://www.gov.ns.ca/natr/meb/download/dp043.htm.

Nova Scotia Department of the Environment and Environment Canada 1985: Groundwater regions of Nova Scotia, hydrologic network review; Nova Scotia Department of the Environment and Environment Canada, Map E-2, scale 1:1 000 000.

Nova Scotia Department of Environment 2008a: Groundwater observation wells database; Nova Scotia Department of Environment. Available online at http://www.gov.ns.ca/nse/water/groundwater/groundwaternetwork.asp.

Nova Scotia Department of Environment 2008b: Nova Scotia 1:10 000 primary watersheds; Nova Scotia Department of Environment, Water and Wastewater Branch, scale 1:10 000.

Stea, R.R., Conley, H. and Brown, Y. 1992: Surficial geology map of the Province of Nova Scotia; Nova Scotia Department of Natural Resources, Mines and Energy Branches, Map 1992-3, scale 1:500 000. Available online as DP ME 36, version 2, 2006 at http://www.gov.ns.ca/natr/meb/download/dp036.htm.

Disclaimer

The information on this map may have come from a variety of government and nongovernment sources and is subject to change without notice. The Government of Nova Scotia accepts no liability for any errors, deficiencies or faults on this map. This map is intended for use at the published scale of 1:500 000.

Recommended Citation

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May 7, 2008

Legend

Groundwater Regions
- Quaternary
- Sedimentary
- Carbonate/Evaporite
- Volcanic
- Plutonic
- Metamorphic

Nova Scotia Department of Environment observation wells (station name, number) . **Station (000)**

Primary watershed boundary

Groundwater region boundary

Roads (primary, secondary)

Rivers/streams

Coastline

County boundary

Lakes