



**NB DNRE OFR 2000-6
GSC Open File 3889**

Sheet 1 of 5
Sample Location Map
Northwest New Brunswick, NTS 210/12 and /13



NGR SURVEY - NORTHWEST NEW BRUNSWICK

This open file map illustrates data from a joint Geological Survey of Canada (GSC) and New Brunswick Department of Natural Resources and Energy (NB DNRE) Open File (GSC OF 3889 and NB DNRE OFR 2000-6). The open file provides analytical and statistical data for 35 elements plus loss-on-ignition (LOI) in sediments from 767 stream sites collected from northwest New Brunswick during the summer of 1999. Sample sites were distributed over the 2,020 km² survey area at an average density of one sample per 2.6 km². The Geological Surveys Branch of the New Brunswick Department of Natural Resources and Energy funded the 1999 reconnaissance survey.

Large areas of Canada have been covered by stream and lake surveys carried out under the National Geochemical Reconnaissance (NGR) program. The mandate of this program is to establish and maintain a nationally consistent database of field and analytical data derived from drainage sediment and water samples. Toward this goal, systematic surveys have been conducted since 1973. To date (2000), more than 200 surveys have been completed to NGR standards, representing over 190,000 sites covering 2.3 million km² throughout Canada (see accompanying figure). These surveys were carried out mainly by the Geological Survey of Canada, either independently or in cooperation with provinces and territories, under various funding arrangements.

Consistent methods of sample collection, sample preparation and chemical analysis developed and employed at the GSC are the hallmark of NGR surveys (Friske and Hornbrook, 1991). Currently, data for each NGR survey are available in hard copy and digital form. However, to simplify access to such a substantial collection of diverse information, a digital database has been created using Microsoft ACCESS® software. As entry of large contiguous blocks of data (e.g., all Labrador or Ontario lake sediment and water data) is completed, geochemical maps and reports are being produced that display and summarize the data (e.g., Friske et al., 1997). The aim of the second generation of publications is to increase awareness of NGR data and enhance applications not only to mineral exploration but in other areas as well, such as public health and environmental studies.

SELECTED REFERENCES

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- Routine Sample Site + 1002
- Field Duplicate Site + 1007/08

DEVONIAN

D1 Shale, limestone, sandstone; minor greywacke, tuff and volcanic rocks

SILURIAN

S Greywacke, slate, siltstone, sandstone, conglomerate and limestone; minor ferruginous and mangiferous chert and argillite; minor volcanic rocks

ORDOVICIAN AND/OR SILURIAN

OS1 Calcareous and argillaceous sedimentary rocks

Background geological information from New Brunswick Department of Natural Resources and Energy - Map N.R. - 1 (second edition, 1979)

Digital topographic base map from Geomatics Canada, modified by Regional Geochimical Studies Section.

Scale 1:100 000

Kilometres 0 1 2 3 4 5 Kilometres

UTM Projection
Zone 19
NAD83

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