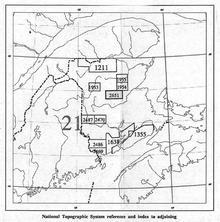
Energy, Mines and Resources Canada | Energie, Mines et Ressources Canada

GEOLOGICAL SURVEY OF CANADA | COMMISSION GEOLOGIQUE DU CANADA

SAMPLE LOCATION STREAM SEDIMENTS

GSC OPEN FILE 2651

CENTRAL NEW BRUNSWICK 1993



National Topographic System reference and index to adjoining geochemical reconnaissance surveys

INDEX MAP

GEOLOGICAL SURVEY OF CANADA
MINERAL RESOURCES DIVISION
APPLIED GEOCHEMISTRY SUBDIVISION

CONTRACTORS

Collection: Three-D GeoConsultants Ltd.
Fredericton, New Brunswick

Preparation: Bondar-Clegg & Company
Gloucester, Ontario

Analysis: Chemex Laboratories, Ltd.
North Vancouver, British Columbia

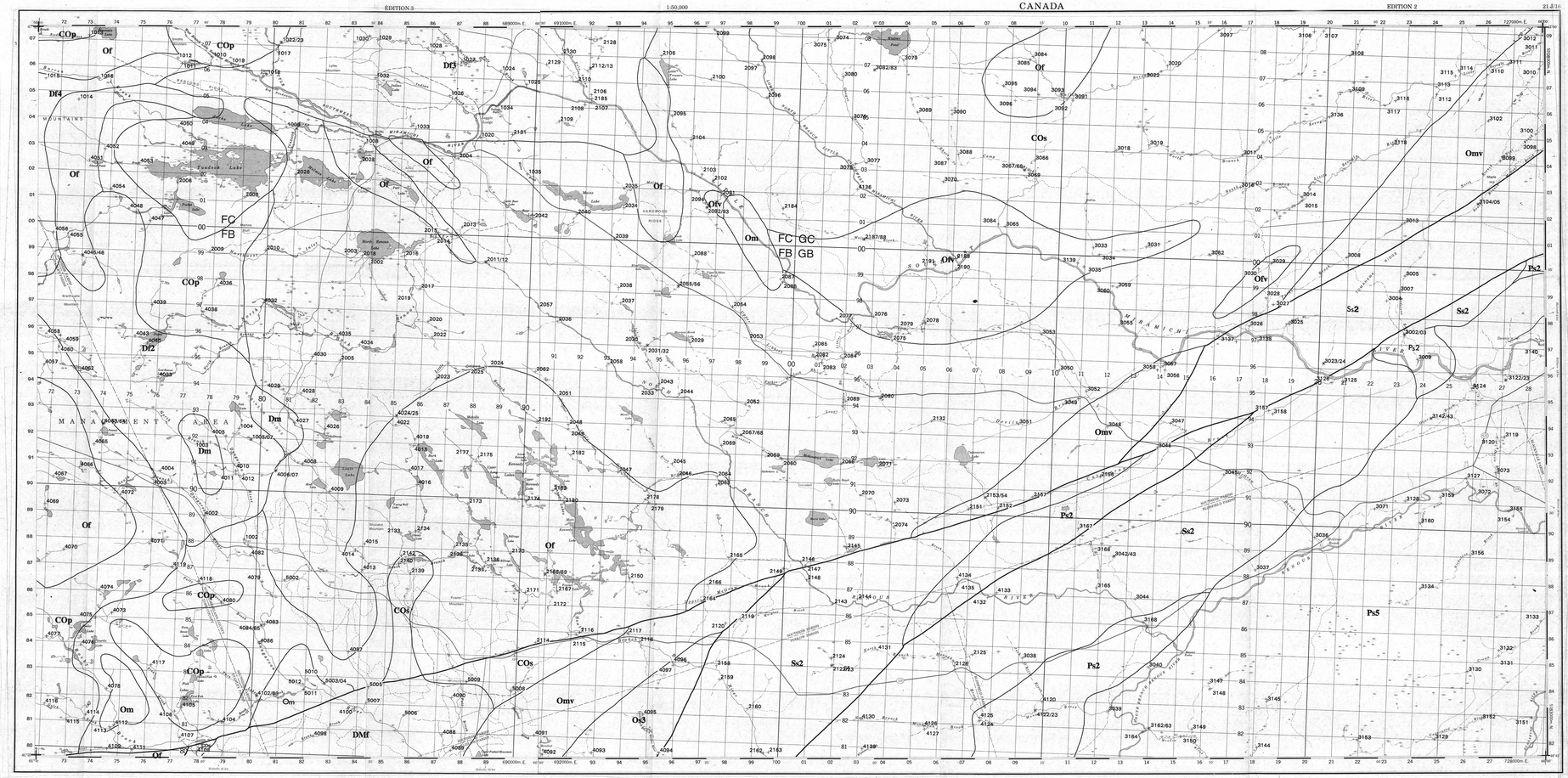
Barringer Laboratories (Alberta), Ltd.
Calgary, Alberta

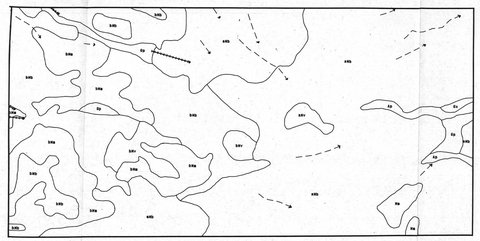
Becquerel Laboratories, Ltd.
Mississauga, Ontario

CANADA

ÉDITION 3 — 1:50,000 — EDITION 2

21 J/16





LEGEND

Quaternary

Holocene

MARINE SEDIMENTS: sand, gravel, silt, clay, minor peat and organic sediment: deposited in beach and intertidal environments at or near present sea level

Ap — ALLUVIAL SEDIMENTS: terraces and floodplain: sand, gravel, some silt, minor clay and organic sediment; generally more than 2 m thick; deposited as channel, overbank, and floodbasin deposits at or near present base level

Op — ORGANIC SEDIMENTS: bogs, fens, swamps: peat, muck, minor silt, and fine sand; generally 1 to 5 m thick; deposited in shallow basins and on poorly drained surfaces

Late Wisconsinan

GLACIOFLUVIAL SEDIMENTS: Sand, gravel, minor silt, and till; deposited in front of, at the margin of, within, or under retreating Late Wisconsinan ice

Gx — Ice-contact deposits: eskers, kames, kame and kettle complexes; sand, gravel, minor silt, and till, generally more than 2 m thick

MORAINAL SEDIMENTS: lodgment till; ablation till, and associated sand and gravel deposited directly by Late Wisconsinan ice or with minor reworking by water

Mm — Hummocky, ribbed, and rolling ablation moraines: loamy ablation till; some lodgment till, minor silt, sand, gravel, and boulders; generally greater than 1.5 m thick
aMm - mainly stony till (more than 35% of clasts pebble-sized or larger)
bMm - mainly bouldery till (more than 25% of clasts boulder-sized)

Mb/Mv — Blanket and veneer: loamy lodgment till, minor ablation till,silt, sand, gravel, rubble
Mb - blanket, generally 0.5 to 3 m thick
Mv - discontinuous veneer over rock, less than 0.5 m thick
aMb, SMv - mainly sandy till (sand content greater than 50%)
aMb, aMv - mainly stony till (more than 35% of clasts pebble-sized and larger)
bMb, bMv - mainly bouldery till (more than 25% of clasts boulder-sized)

Wisconsinan

GLACIOFLUVIAL SEDIMENTS: sand, gravel, minor silt, and till; deposited in front of, at the margin of, within, and under ice of Wisconsinan age

Gp/Gd — Outwash: sand, gravel, minor silt
Gp - plains and valley trains, generally more than 1.5 m thick
Gd - deltas, generally more than 5 m thick

Esker

Meltwater channel

Reference

Rampton, V.N., 1984. Surficial geology, New Brunswick; Geological Survey of Canada, Map 1594A, Scale 1 : 500 000

LEGEND

Pennsylvanian

Ps5 — Grey to olive green sandstone and conglomerate; minor green and red siltstone, shale, and sandstone

Ps2 — Red conglomerate and sandstone

Upper Devonian or Lower Mississippian

DMf — Pink to red, coarse- to medium-grained, equigranular to subporphyritic biotite granite varying to quartz-feldspar porphyry; minor quartz-feldspar porphyry dykes, pegmatite, aplite and greisen

Lower to Middle Devonian

Dm — pink to grey, medium-grained, equigranular muscovite-biotite granite; minor garnet-, tourmaline-, and beryl-bearing granite and pegmatite

Df3 — pink to grey, medium-grained, equigranular to megacrystic biotite granite locally varying to hornblende-biotite granite and granodiorite

Df2 — grey to pink, medium-grained, equigranular to subporphyritic, foliated, biotite and hornblende-biotite granodiorite and tonalite; minor pegmatite

Dm — green to grey, medium-grained, subophitic to ophitic gabbro

Silurian

Kingsclear Group

Ss2 — grey quartzose greywacke, grey lithic greywacke, grey slate, black pyritiferous slate, and minor grey calcareous slate

Ordovician (may in part be older)

Of — pink, fine- to medium grained, foliated, equigranular to megacrystic granite

Om — green, medium-grained, schistose gabbro

Lower to Middle Ordovician

Tetagouche Group (upper part)

Os3 — lithic greywacke, grey siltstone, and slate; minor grey calcareous siltstone and maroon slate

Omv — green, amygdaloidal, porphyritic, and locally pillowed mafic volcanic rocks

Ofv — buff to grey aphanitic rhyolite, porphyritic rhyolite, and crystal tuff

Cambrian to Ordovician

Tetagouche Group (lower part)

COs — olive green to grey quartzose greywacke interbedded with green, grey and maroon slate and siltstone; minor grey calcareous siltstone and green quartzite-pebble conglomerate

Migmatite Complex - may in part be older

COp — interlayered grey cordierite-bearing quartzofeldspathic paragneiss and sillimanite-bearing schist grading to grey medium grained, nebulitic granitoid; minor green- and grey-banded, fine-grained amphibolite

Geological boundary

Faults

Reference

Fyffe, L.R., 1982: Geology Woodstock, Map NR-4. New Brunswick Department of Natural Resources; Scale 1 : 250 000

NEW BRUNSWICK MDA 2

Contribution to Canada/New Brunswick Cooperation Agreement on Mineral Development 1990-1995, a subsidiary agreement under the Economic and Regional Development Agreement. Project funded by the Geological Survey of Canada.

Contribution à l'Entente de coopération Canada/Nouveau-Brunswick sur l'Exploitation minérale 1990-1995 faisant partie de l'Entente de développement économique et régional. Ce projet a été financé par la Commission géologique du Canada.

Natural Resources and Energy, New Brunswick | Ressources naturelles et Énergie, Nouveau-Brunswick

Canada

SAMPLE LOCATION
STREAM SEDIMENTS
GSC OPEN FILE 2651
CANADA - NEW BRUNSWICK COOPERATION AGREEMENT ON MINERAL DEVELOPMENT (1990-1995)

STREAM SEDIMENT AND WATER GEOCHEMICAL DATA
CENTRAL NEW BRUNSWICK 1993

Scale 1:50,000 Échelle

Metres/Mètres 0 1000 2000 3000 4000Kilometres

Yards/Verges 0 1000 2000 3000 4000 Yards

SAMPLE LOCATION
STREAM SEDIMENTS
GSC OPEN FILE 2651
CENTRAL NEW BRUNSWICK 1993