

LEGEND

HADRHYAN
Hb Gabbro sheets, sills

AFHERAN
GOULBURN GROUP
gASB BROWN SOUND FORMATION: red siltstone, shale, sandstone
eACB PEACOCK HILLS FORMATION: shale, dolomite, sandstone
eASB BURNSIDE RIVER FORMATION: quartzite, conglomerate

EPWORTH GROUP
eACD TARTYAK FORMATION: red sandstone, shale
eACB COWLES LAKE FORMATION: limestone, shale
eADW RECLISE FORMATION: argillite, shale, greywacke
eACB ROCKNEST FORMATION: dolomite
eASBP GONICK FORMATION: sandstone, shale, argillite, andesite

AG Quartz diorite, quartz monzonite, granodiorite, granite, in part porphyritic
An Granitic gneiss, migmatite, mixed gneisses involving Yellowknife rocks
eAG Complex of plutonic granitic rocks that may be, in part, older than Yellowknife Supergroup

YELLOWKNIFE SUPERGROUP
yAWP Greywacke, shale
yASD Cordierite-andalusite bearing kottled schist and other metamorphic equivalents of yAWP
yAVB Intermediate to basic lava, tuff, agglomerate, and undifferentiated acidic volcanic rocks

Boundary between Bear and Slave geological provinces
Fault, observed or assumed
Approximate position of tectonic zone
Syncline
Mineral prospect showing principal elements
Lake sample site and metal concentration (sediment sieved to minus 250 mesh)
Lake sample site and metal concentration (sediment sieved to minus 100 mesh)
Geochemical concentration contours as ppm

MINERALS
Copper Cu
Iron Fe
Gold Au
Nickel Ni

Geology after unpublished map compiled by J. C. McClung, 1971

Field work by R. J. Allan, E. M. Cameron, C. C. Durham, B. Jensen, M. Colley, R. Cumming, G. Lind, D. Mann, C. Priebe, G. Thomas and B. Woronuk

Analyses by J. A. Lynch, R. Horton, W. H. Nelson, W. Alexander and A. Martinus

Marginal notes by R. J. Allan and E. M. Cameron

Geochemical contours and metal concentration numbers drawn by computer drum plotter

Geological cartography by the Geological Survey of Canada

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Base-map assembled by the Geological Survey of Canada from maps published at the same scale by the Army Survey Establishment (R.C. 6, 10, 1942, 1944)

Copies of the topographical maps covering this map-area may be obtained from the Canada Map Office, 615 Booth Street, Ottawa, Ontario K1A 0B9

Mean magnetic declination 1977, 34° 30' East, decreasing 8.2' annually. Readings vary from 31° 54' in the SE corner to 37° 11' in the NW corner of the map-area

Elevations in feet above mean sea-level

MARGINAL NOTES

Lake Sediment Geochemistry The use of lake sediments as an aid to mineral exploration and production has been discussed in the literature. The sedimentary record of their origin. The first is that the detrital portion of a sedimentary lake is composed of a mixture of detrital and organic material. The second is that the detrital portion of a sedimentary lake is composed of a mixture of detrital and organic material. The third is that the detrital portion of a sedimentary lake is composed of a mixture of detrital and organic material. The fourth is that the detrital portion of a sedimentary lake is composed of a mixture of detrital and organic material. The fifth is that the detrital portion of a sedimentary lake is composed of a mixture of detrital and organic material. The sixth is that the detrital portion of a sedimentary lake is composed of a mixture of detrital and organic material. The seventh is that the detrital portion of a sedimentary lake is composed of a mixture of detrital and organic material. The eighth is that the detrital portion of a sedimentary lake is composed of a mixture of detrital and organic material. The ninth is that the detrital portion of a sedimentary lake is composed of a mixture of detrital and organic material. The tenth is that the detrital portion of a sedimentary lake is composed of a mixture of detrital and organic material.

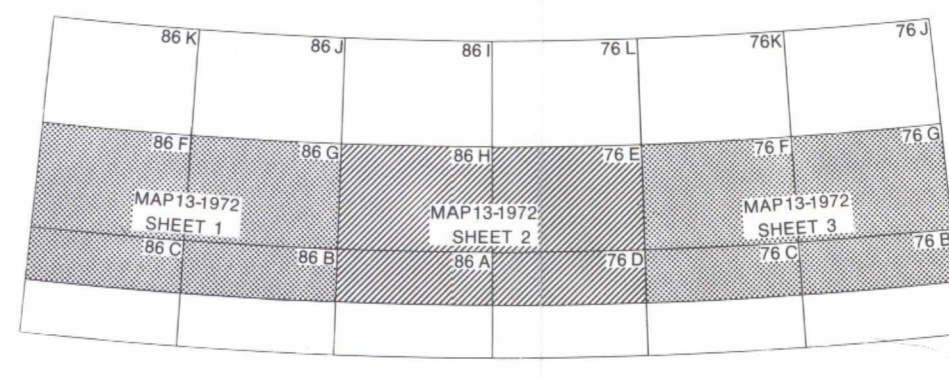
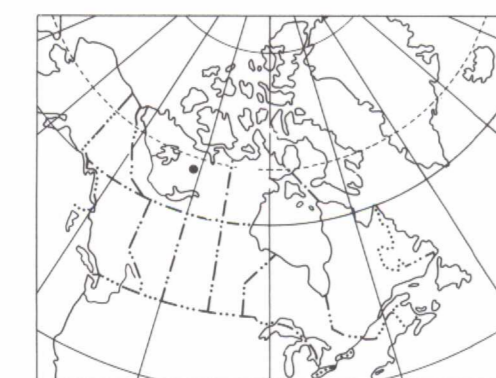
Lake Sediment Sampling The lake sediment samples were collected by pre-drilling from the shore. They were taken near the edge of the lake to a depth of 1 to 2 m. The samples were approximately the size of a 10 cm diameter, but the type of sample length was of the order of 10 cm to 1 m. The samples were taken in the type of sample length was of the order of 10 cm to 1 m. The samples were taken in the type of sample length was of the order of 10 cm to 1 m.

Geochemical Analysis Certain heavy metals, such as uranium, zinc, and copper, may be extracted by solvent extraction techniques. These data will be released separately in the form of a separate report. These data may be compared with geochemical data from the same area. It should be recognized, however, that geochemical data from the same area may be compared with geochemical data from the same area. It should be recognized, however, that geochemical data from the same area may be compared with geochemical data from the same area.

Statistical Analysis The data were analyzed by the method of least squares. A 100 mg sediment sample was dried with sulfuric acid and the residue was analyzed for Cu, Zn, Pb, and Ni. The residue was analyzed for Cu, Zn, Pb, and Ni. The residue was analyzed for Cu, Zn, Pb, and Ni. The residue was analyzed for Cu, Zn, Pb, and Ni.

Conclusions The lake sediment data for all these areas are in good agreement with the rock data. It will be noted that the copper content of the lake sediments is generally higher than the rock content. This is due to the fact that the lake sediments are generally younger than the rocks. The lake sediments are generally younger than the rocks. The lake sediments are generally younger than the rocks.

MAP 13-1972
SHEET 2
**COPPER CONTENT OF LAKE SEDIMENTS
BEAR-SLAVE OPERATION
DISTRICT OF MACKENZIE**
Scale 1:250,000



3401
.05
1956
G4
am5C
s2 c1