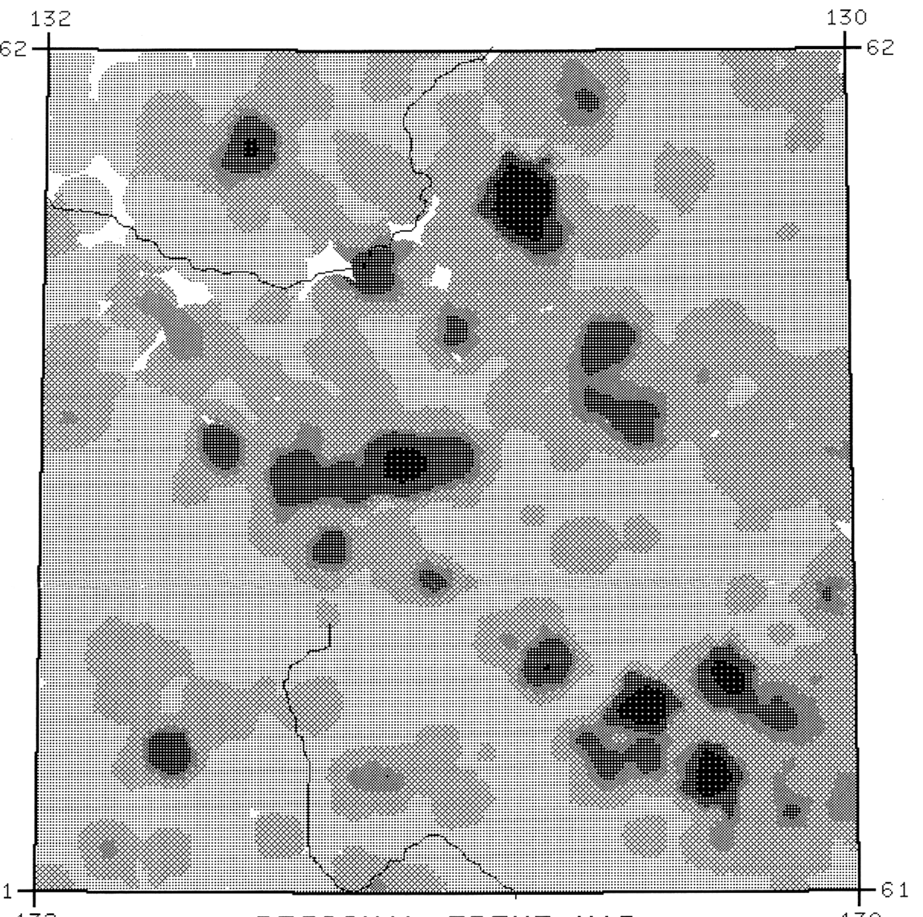
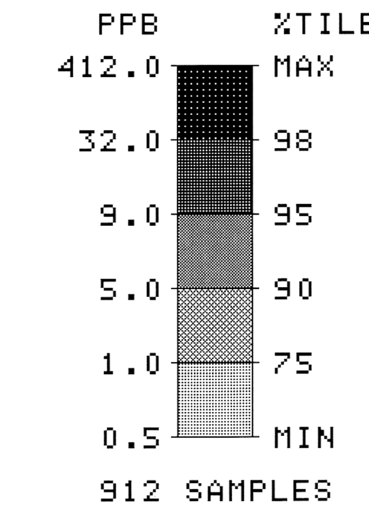


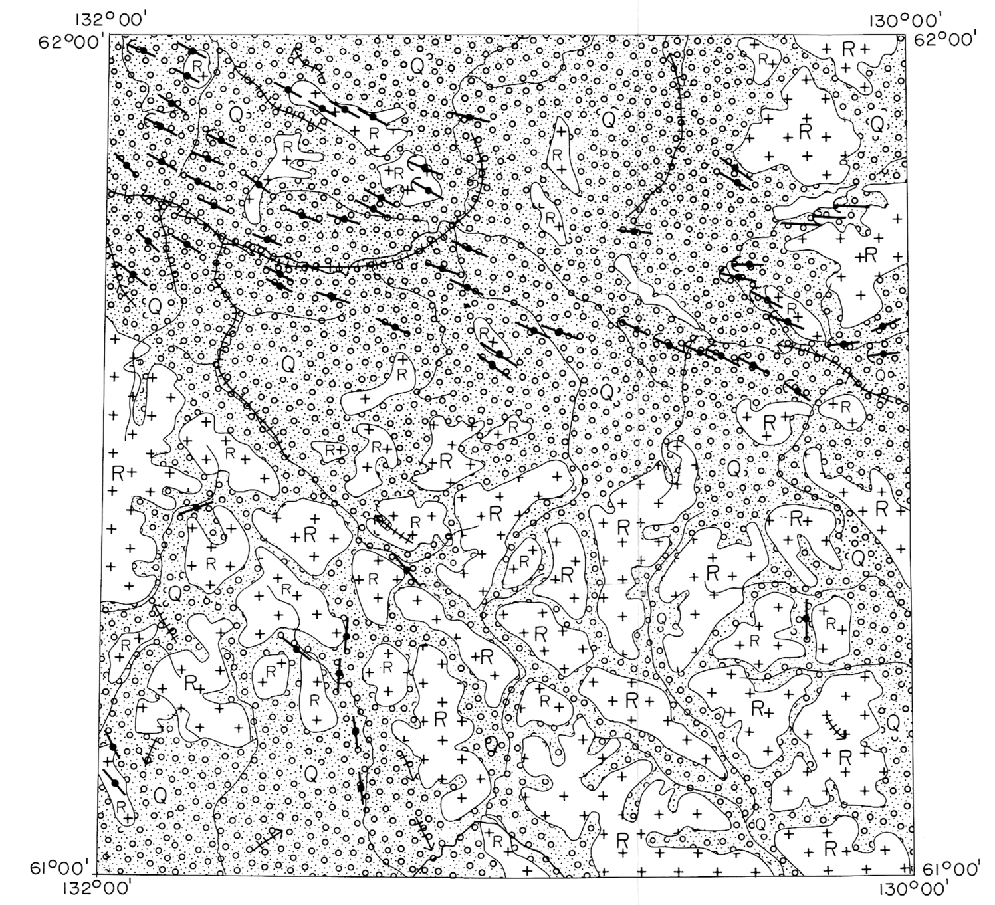
REGIONAL TREND MAP

0 20 40 60

KILOMETRES- SCALE 1:1000000

GOLD IN STREAM SEDIMENTS





0 20 40 60

KILOMETERS - SCALE 1:1000000

SURFICIAL GEOLOGY

Q — Unconsolidated surficial deposits.

R — Bedrock exposures; includes discontinuous veneer of undivided glacial drift.

SYMBOLS

Surficial deposit boundary . . . .

Major meltwater channels, indicating direction of flow . . . .

Drumlinoid form; direction of glacial movement inferred, not inferred . . . .

Sources of information:

Hughes, O.L., Campbell, R.B., Muller, J.E., and Wheeler, J.O. (1968) Glacial Map of Yukon Territory, Geological Survey of Canada, Map 6-1968 (1:1,000,000 scale) to accompany GSC Paper 68-34.

Jackson, L.E. Jr. (1968) Terrain Inventory, Finlayson Lake, Yukon Territory (105 G), Geological Survey of Canada, Open File 1379, 1:125,000 scale.

Prest, V.K., Grant, D.R., and Rampton, V.N. (1967) Glacial Map of Canada, Geological Survey of Canada, Map 1253A, 1:5,000,000 scale.

Wheeler, J.O., Green, L.H., and Roddick, J.A. (1960) Geology - Finlayson Lake, Yukon Territory, Geological Survey of Canada, Map 8-1960, scale 1 inch to 4 miles.

CONCENTRATION		FREQUENCY
33 to 412	▣	N= 17(1.9%)
10 to 32	▣	N= 25(2.7%)
6 to 9	■	N= 35(3.8%)
1 to 5	●	N= 189(20.7%)
<1	+	N= 646(70.8%)

Geological Survey of Canada
Mineral Resources Division
Exploration Geochemistry Subdivision

CONTRACTORS

Stream sediment sample collection by Monaghan Delph Miller Limited, Don Mills, Ontario
Sample preparation by Golder Associates, Ottawa
Sediment chemical analyses by Bondar-Clegg and Company Ltd., Ottawa
Water and Au chemical analysis by Chemex Labs Limited, Vancouver
Geological base prepared by Terra Surveys Ltd., Ottawa
from published material supplied by Geological Survey of Canada

Copies of the Open File map material, element trend and symbol plots, listing of field observations, analytical data, descriptions of analytical methods, and digital data on IBM-PC compatible diskette are available by inquiring to:

Geological Survey of Canada
Publications Distribution
601 Booth Street
Ottawa, Ontario K1A 0E8
Tel.: (613) 995-4342

Contribution to Canada – Yukon Mineral Development Agreement 1985 – 1989, a subsidiary agreement under the Economic and Regional Development Agreement. Project funded by the Geological Survey of Canada.

Contribution to the Canada/Yukon Subsidiary Agreement on Mineral Resources 1985-1989 under the Canada/Yukon Economic Development Agreement

Contribution à l'Entente auxiliaire Canada/Yukon sur l'exploitation minérale 1985-89 dans le cadre de l'Entente Canada/Yukon sur le développement économique.

Yukon

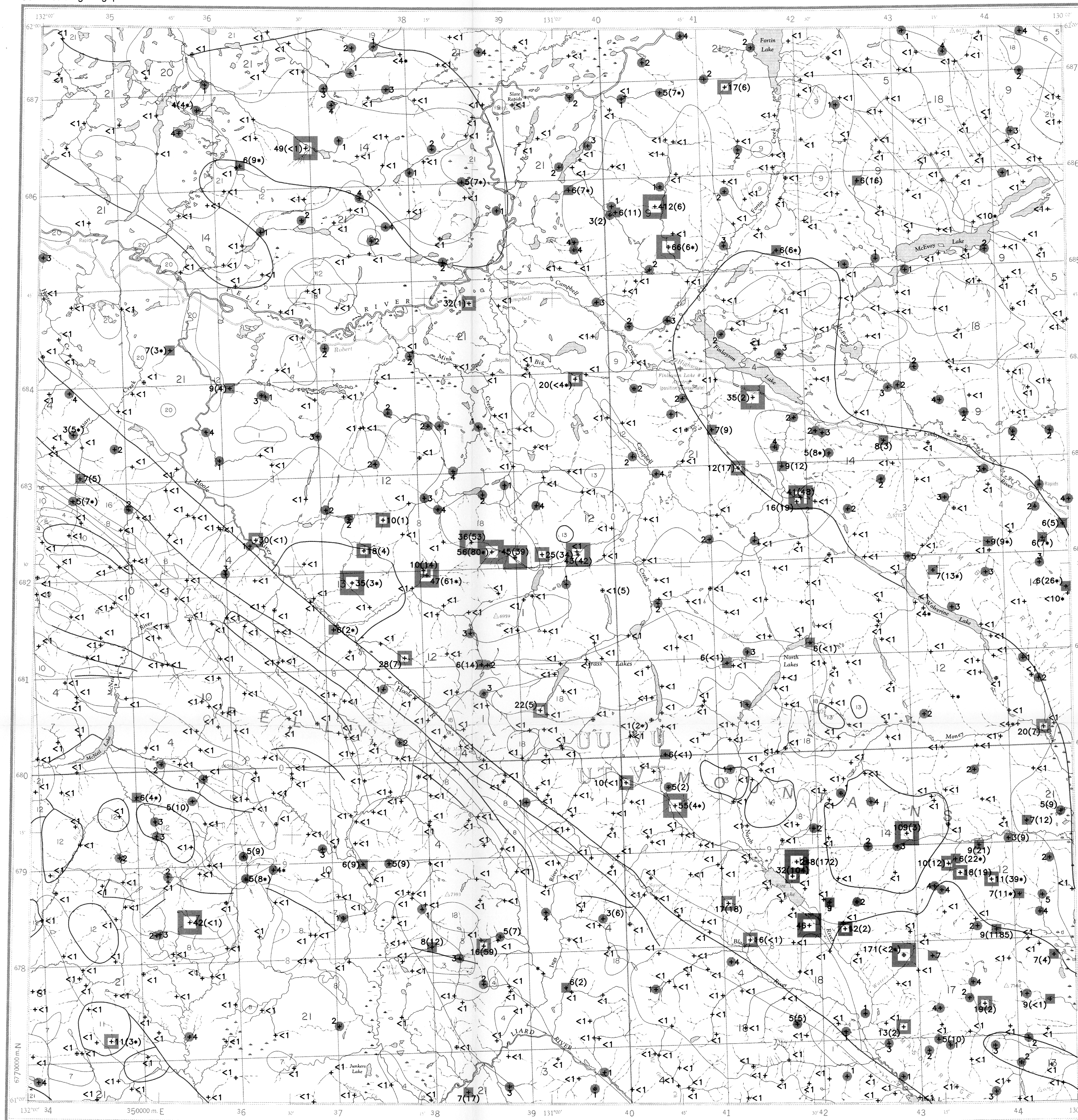
Canada

Elevation in feet above mean sea level

Mean magnetic declination 1988, 30° 28' East, decreasing 12.4' annually. Readings vary from 29° 56' in the SW corner to 31° 01' in the NE corner of the map area.

Geological Survey of Canada
Commission géologique du Canada

NTS 105G



NTS 105G

GOLD (ppb) STREAM SEDIMENTS

GSC OPEN FILE 1648

REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 113-87

CANADA – YUKON

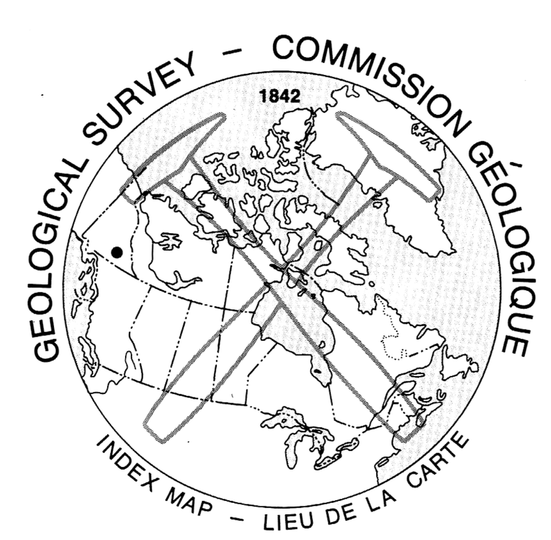
MINERAL DEVELOPMENT AGREEMENT (1985 – 1989)

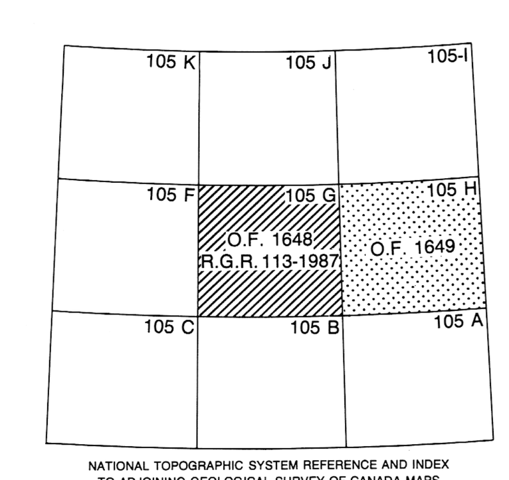
STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY
EAST-CENTRAL YUKON, 1987

Scale 1:50 000 - Échelle 1/50 000

Kilometres 1 0 1 2 3 4 Kilomètres

Universal Transverse Mercator Projection — Projection transverse universelle de Mercator





NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO ADJOINING GEOLOGICAL SURVEY OF CANADA MAPS

GOLD (ppb) STREAM SEDIMENTS

GSC OPEN FILE 1648

EAST-CENTRAL YUKON, 1987

LEGEND

QUATERNARY

PLEISTOCENE AND RECENT

21	Qs	64*	Glacial and surficial deposits

TERTIARY

PLIOCENE

20	Pv	62	Basalt

CRETACEOUS

19	Kgdp	52	Granodioritic and monzonitic porphyry
18	Kqm	52	Quartz monzonite, granodiorite; Cassiar quartz monzonite, alaskite

TRIASSIC

17	Tgdn	42	Foliated hornblende granodiorite, quartz
16	Tcg	42	Polymictic conglomerate

PENNSYLVANIAN AND PERMIAN

15	PPAt	35	Chert

CARBONIFEROUS AND PERMIAN

14	CPAV	35	ANVIL RANGE GROUP: andesite, basalt, slate, chert, limestone
13	CPub	35	Serpentinite, diorite, pyroxenite, peridotite
12	CPsn	35	Schist, gneiss; includes BIG SALMON METAMORPHIC COMPLEX
11	CPv	35	Andesite, basalt, chert, tuff

MISSISSIPPIAN

10	Mvp	31	Black slate, chert, acidic volcanics

DEVONIAN AND MISSISSIPPIAN

9	DME	29	EARN GROUP: undivided; shale, chert arenite, conglomerate
8	DMS	29	SYLVESTER GROUP: shale, chert arenite, basic volcanic rocks

SILURIAN AND DEVONIAN

7	SDcq	24	Dolomite, quartzite, argillite

ORDOVICIAN, SILURIAN AND LOWER DEVONIAN

6	OSDR	19	ROAD RIVER: black graptolitic shale, chert

CAMBRIAN AND ORDOVICIAN

5	COp	14	Shale, limestone
4	COK	14	KECHIKA GROUP: phyllite, limestone

LOWER CAMBRIAN

3	lCAq	11	ATAN GROUP: quartzite, shale, phyllite
2	lCq	11	Quartzite, shale

HADRYNIAN

1	Hsn	07	Schist, gneiss, quartzite

*A mnemonic code assigned to rock types and recorded as part of field observations.

Geological boundary . . . .

Fault . . . .

No analytical results . . . . *

Field duplicate sample sites . . . . ⊕

Geology base and legend are derived from:

Gabrielse, H., Tempelman-Kluit, D.J., Blusson, S.L. and Campbell, R.B. (1980) Map 1398A, MacMillan River, Yukon - District of Mackenzie - Alaska, NTS Sheet 105, Geological Survey of Canada, Energy, Mines and Resources Canada. 1:1,000,000 Scale.

GOLD (ppb) STREAM SEDIMENTS
GSC OPEN FILE 1648
EAST-CENTRAL YUKON, 1987