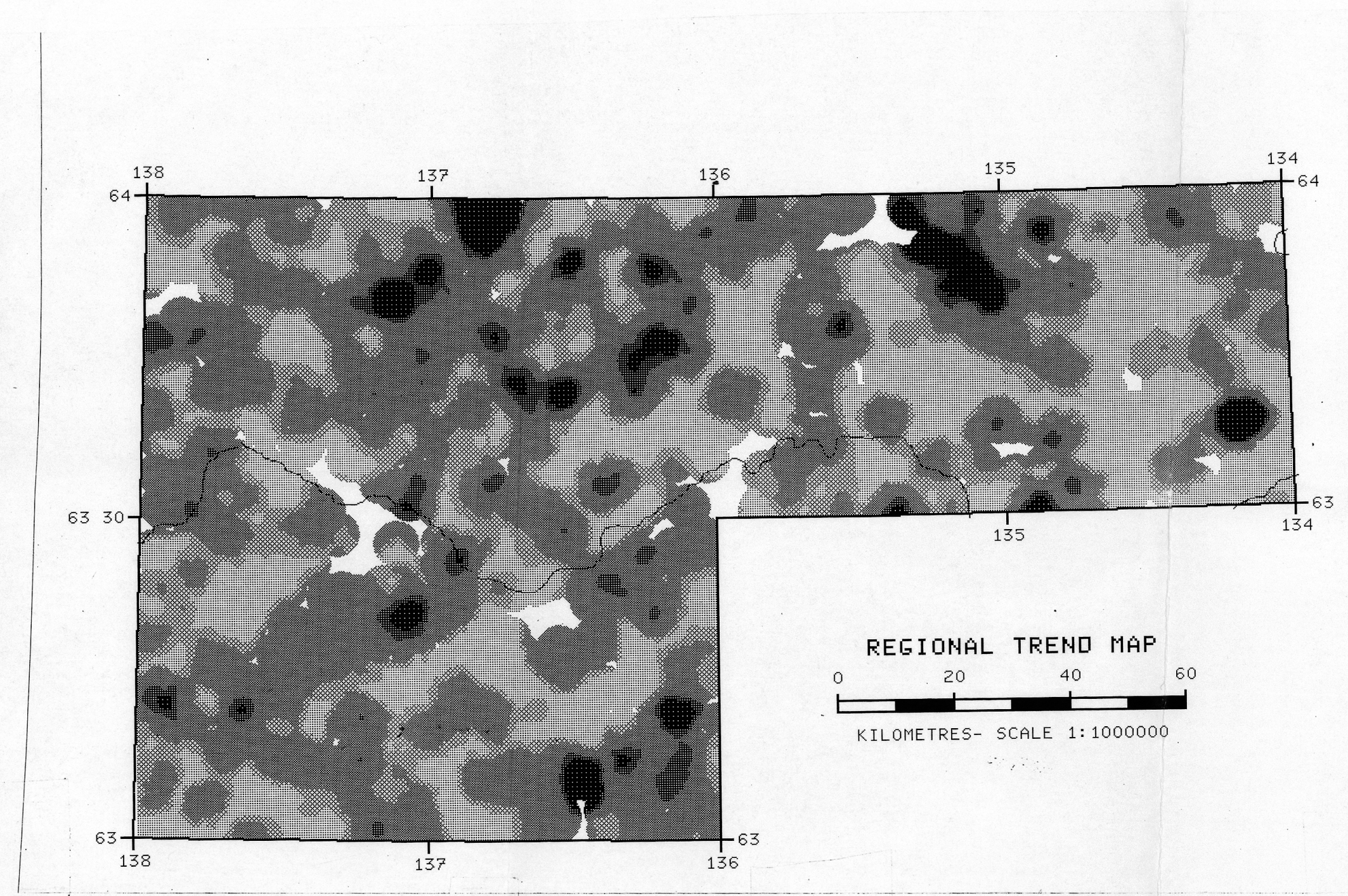
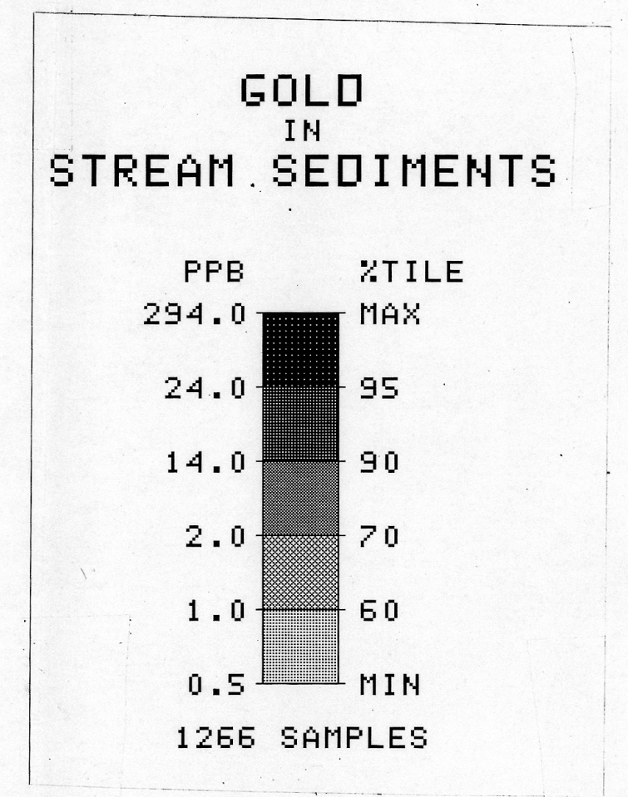


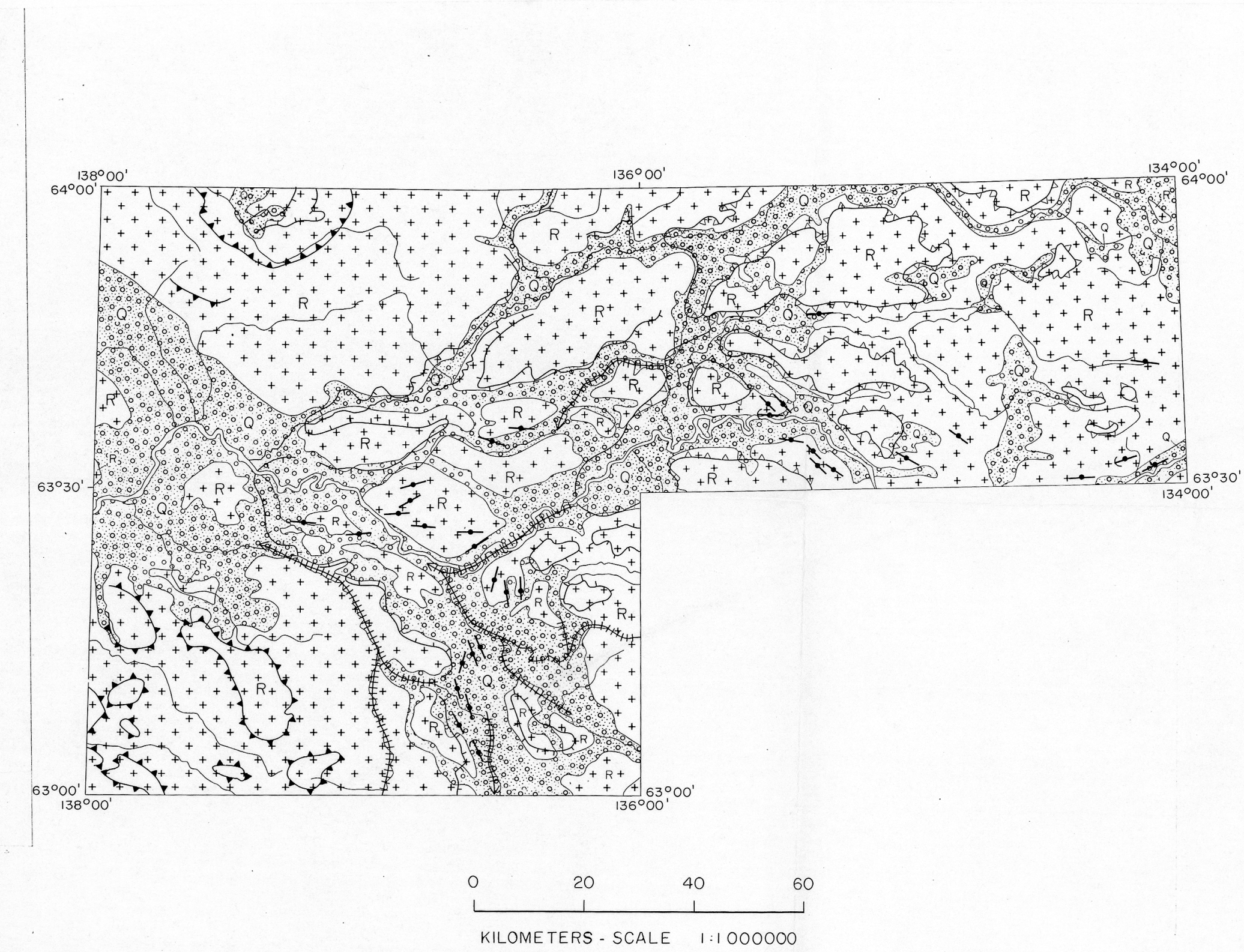


CONCENTRATION		FREQUENCY
49 to 294	▣	N= 25(.0%)
25 to 48	▣	.= 38(0%)
15 to 24	■	N= 56(.4%)
3 to 14	●	= 261(20.6%)
<1 to 2	+	N= 886(70.0%)

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



SURFICIAL GEOLOGY

Q	Undivided surficial deposits.
R	Bedrock exposures; includes discontinuous veneer of undivided glacial drift.

SYMBOLS

Surficial deposit boundary . . . .

Limit of Pre-Reid ice advance . . . .

Limit of Reid ice advance . . . .

Limit of McConnell (Ruby) ice advance . . . .

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

Drumlinoid form; direction of glacialmovement inferred, not inferred . . . .

Sources of information:

Bostock, H.S. (1964) Geology - McQueston, Yukon Territory, Geological Survey of Canada, Map 1143A, scale.

Bostock, H.S. (1947) Geology - Mayo, Yukon Territory, Geological Survey of Canada, Map 890A, scale one inch to four miles.

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.

Hughes, O.L. (1982) Surficial Geology and Geomorphology - Janet Lake, Yukon Territory, Geological Survey of Canada, Map 4-1982, 1:100,000 scale.

Hughes, O.L. (1982) Surficial Geology and Geomorphology - Mount Edwards, Yukon Territory, Geological Survey of Canada, Map 5-1982, 1:100,000 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.

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:

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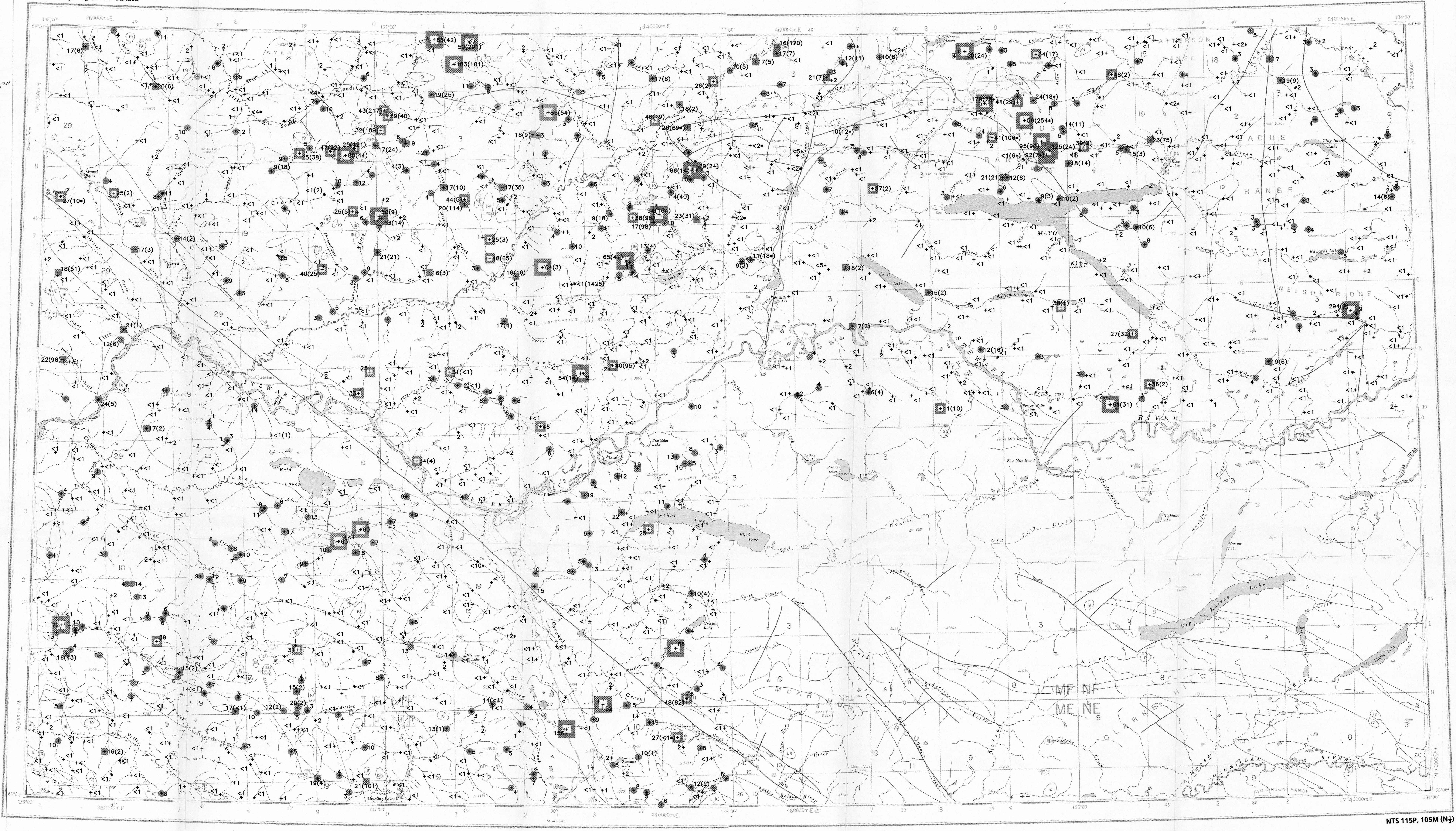
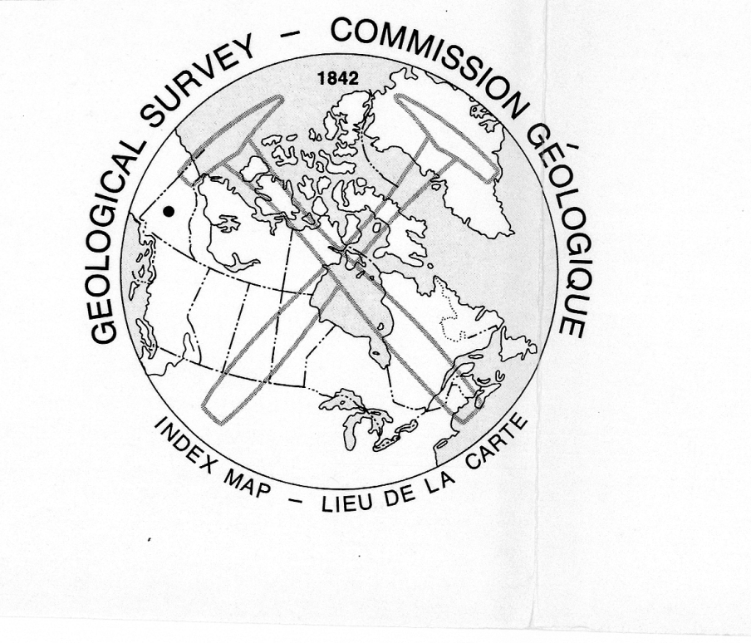
NTS 115P, 105M (N½)



NTS 115P, 105M (N½)



Elevation in feet above mean sea level

Mean magnetic declination 1988, 31° 12' East, decreasing 11.1' annually. Readings vary from 30° 16' in the SW corner to 32° 08' in the NE corner of the map area.

GOLD (ppb)
STREAM SEDIMENTS
GSC OPEN FILE 1650
REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 115-87
CANADA – YUKON
MINERAL DEVELOPMENT AGREEMENT (1985 – 1989)

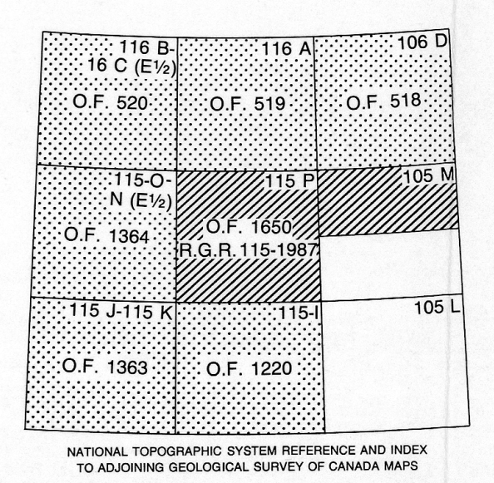
STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY
CENTRAL YUKON, 1987

Scale 1:250 000 - Échelle 1/250 000

Kilometres 5 0 5 10 15 20 Kilomètres

Universal Transverse Mercator Projection

Projection transverse universelle de Mercator



STREAM SEDIMENTS
GSC OPEN FILE 1650
CENTRAL YUKON, 1987

LEGEND

QUATERNARY			
			PLEISTOCENE AND RECENT
29	Qs	64*	Glacial and surficial deposits
28	Rs	64	SELKIRK GROUP: basalt, andesite flows, breccia, tuff
TERTIARY			
			MIOCENE
27	Mvr	61	Rhyolite, trachyte
			LATE TERTIARY
26	LTg	61	Rhyolite porphyry, granite, granodiorite
			OLIGOCENE AND MIOCENE
25	OMCV	60	CARMACKS GROUP: andesite, basalt, breccia
			EARLY TERTIARY
24	ETf	59	Granite and syenite porphyry, rhyolite
			LOWER TERTIARY
23	lTs	58	Conglomerate, sandstone, shale
CRETACEOUS			
22	Ky	52	Syenite, monzonite
21	Kg	52	Granite
20	KSF	52	SOUTH FORK: andesite, dacite, basalt
19	Kqm	52	Quartz monzonite, granodiorite; CASSIAR quartz monzonite, alaskite
JURASSIC AND CRETACEOUS			
18	JKKH	51	KENO HILL: quartzite (may be older)
17	JKdi	51	Diorite, hornblende diorite
16	JKb	51	Gabbro, diorite, some ultramafic rocks
JURASSIC			
15	Jp	47	Graphitic phyllite, quartzite, greenstone
MESOZOIC			
14	Mcg	41	Conglomerate, chert, tuff
13	Mvd	41	Andesite, trachyte
PALEOZOIC			
12	Ps	36	Greywacke, argillite, limestone; includes local basic volcanics and volcaniclastic sediments
CARBONIFEROUS AND PERMIAN			
11	CPAV	35	ANVIL RANGE GROUP: andesite, basalt, slate, chert, limestone
10	CPsn	35	Schist, gneiss, includes BIG SALMON METAMORPHIC COMPLEX
DEVONIAN AND MISSISSIPPIAN			
9	DMCP	29	CRYSTAL PEAKS: chert pebble conglomerate
DEVONIAN			
8	DEI	25	EARN GROUP (lower): slate, quartzite, limestone
ORDOVICIAN, SILURIAN AND LOWER DEVONIAN			
7	OSDR	19	ROAD RIVER: black graptolitic shale, chert
PALEOZOIC			
6	Pgdn	09	PELLY GNEISS: foliated to gneissic granodiorite
5	Pc	09	Limestone
HADRYNIAN			
4	Hc	07	Crystalline limestone
3	Hqp	07	Gritty quartzite, argillite, shale, phyllite
2	Hpq	07	Graphitic phyllite, quartzite
1	Hv	07	Greenstone

*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 1650
CENTRAL YUKON, 1987