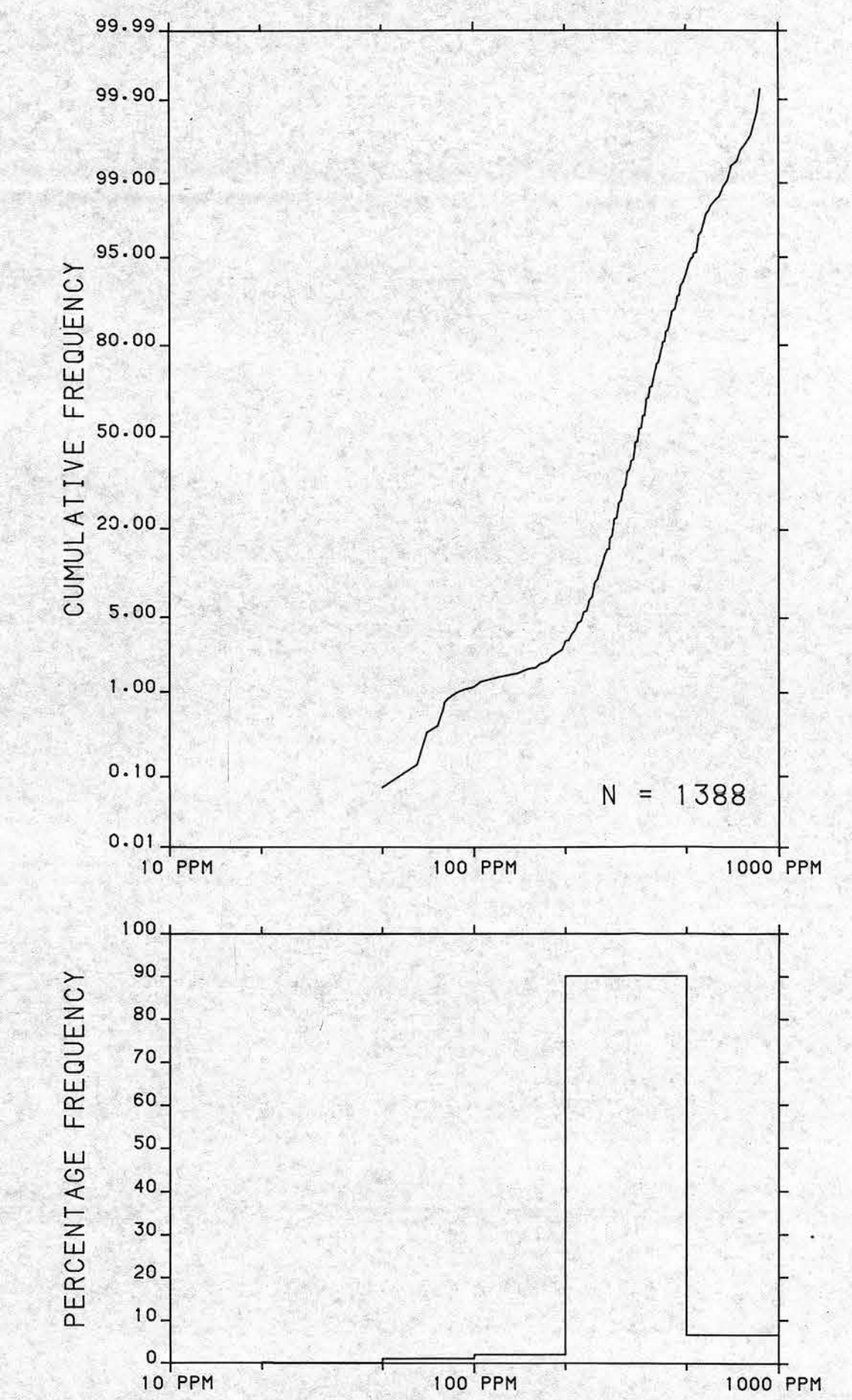


The regional geochemical trend map displayed above utilized a moving weighted average using an inverse distance function (1/d²) to filter out minor irregularities and emphasize broad-scale regional features. Single point anomalies may be suppressed or eliminated, however, geological units which are chemically enriched, or large metallic deposits undergoing weathering would be expected to produce identifiable anomalies.



SURFICIAL GEOLOGY

No comprehensive surficial or geomorphological data exists for the map area up to the release of this geochemical open file. A detailed geomorphology and surficial materials map, compiled by G.W. Morrison of Indian Affairs and Northern Development, Whitehorse, is forthcoming.

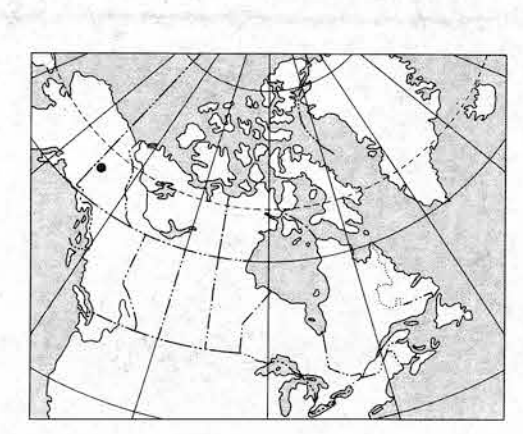
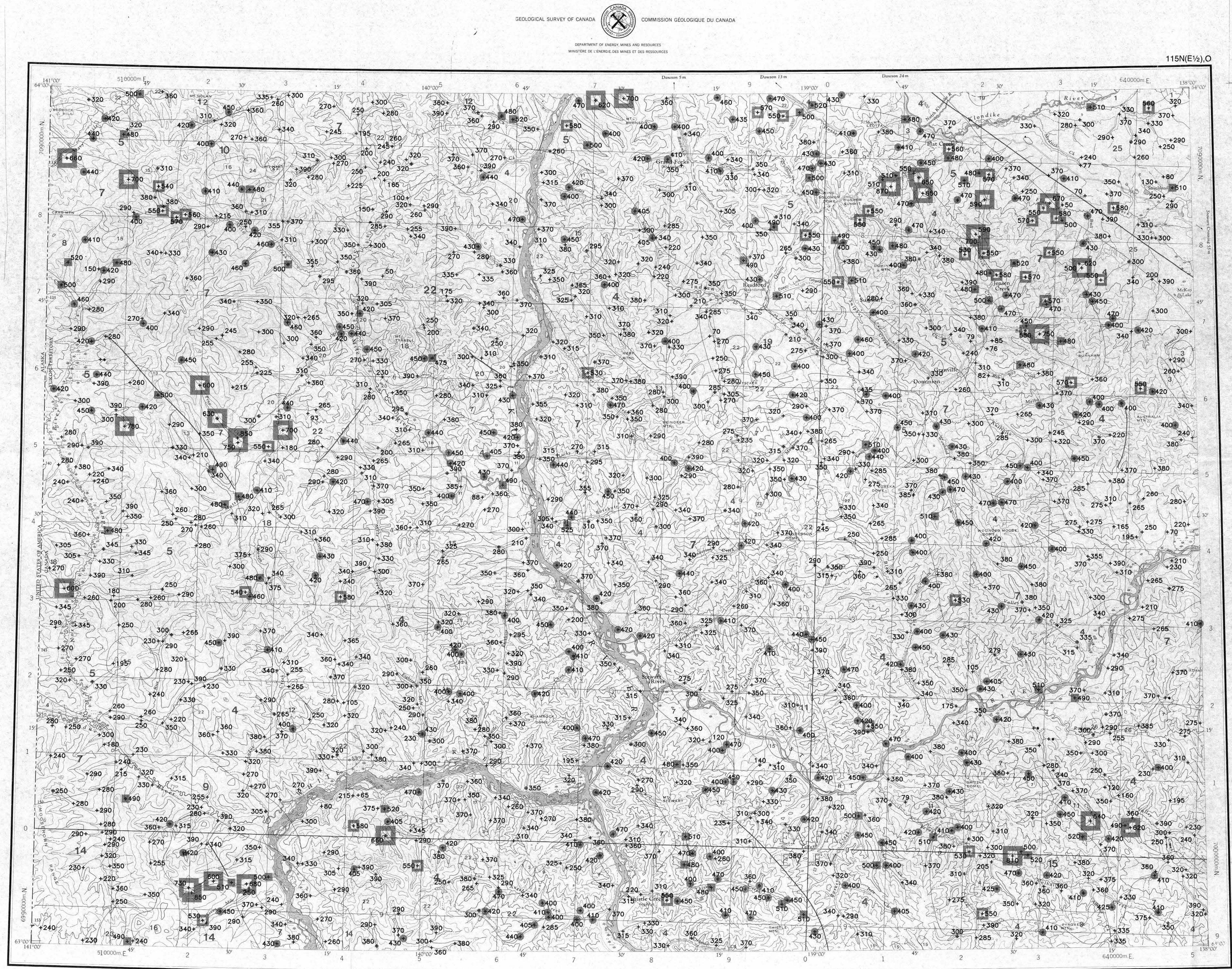
Geological Survey of Canada
Mineral Resources Division
Exploration Geochemistry Subdivision

CONTRACTORS

- 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, Ontario
- Water analyses by Chemex Labs Limited, Vancouver
Water chemical analyses by Barringer Magenta Laboratories (Alberta) Ltd., Calgary

| CONCENTRATION | FREQUENCY | N = | % |
|---------------|-----------|-----|-------|
| 581 to 870 | + | 28 | 2.0% |
| 526 to 580 | □ | 41 | 3.0% |
| 471 to 525 | ■ | 66 | 4.8% |
| 391 to 470 | ● | 274 | 19.7% |
| 50 to 390 | * | 979 | 70.5% |

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



Copies of map material and listings of field observations, analytical data and methods, from which the open file was prepared, are available from:

K.G. Campbell Corporation
880 Wellington St.
Bay 238
Ottawa, Ontario
K1R 6K7

Digital data are available on IBM-PC compatible diskette from:

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

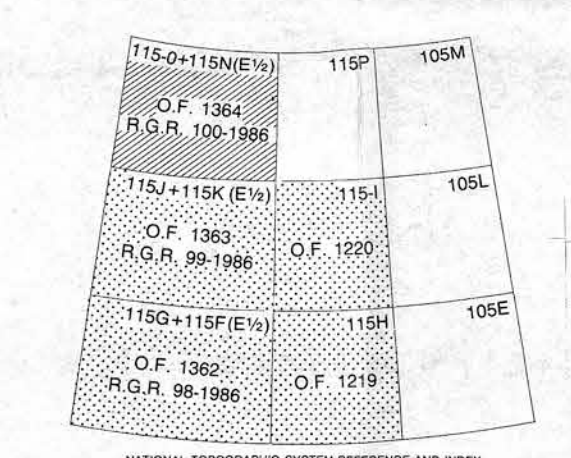
**FLUORINE (ppm)
STREAM SEDIMENTS**
GSC OPEN FILE 1364
REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 100-1986
CANADA - YUKON
SUBSIDIARY AGREEMENT ON MINERAL RESOURCES (1985-1989)
STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY
WESTERN YUKON, 1986

Scale 1:250 000 - Echelle 1/250 000
Universal Transverse Mercator Projection / Projection transverse universelle de Mercator
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Elevation in feet above mean sea level

Base map at the same scale published by the Surveys and Mapping Branch in 1963

Mean magnetic declination 1987, 30°25' East, decreasing 13.5' annually. Readings vary from 30°25'E in the SE corner to 30°20'E in the NW corner of the map area



- LEGEND**
- QUATERNARY**
- RECENT
 - SELKIRK GROUP
 - RS 64* Basalt, andesite flows, breccia, tuff
 - PLEISTOCENE AND RECENT
 - QS 64 Glacial and surficial deposits
 - TERTIARY**
 - OLIGOCENE AND MIOCENE
 - OMA 61 AMPHITHEATRE: Sandstone, conglomerate, shale, coal
 - CARMACKS GROUP
 - OMCV 61 Andesite, basalt, breccia
 - OMD 61 DONJEX: Tuff, breccia
 - OLIGOCENE
 - CARMACKS GROUP
 - OCS 60 Conglomerate, sandstone, shale
 - LOWER TERTIARY
 - ITS 58 Conglomerate, sandstone, shale
 - TVR 58 Rhyolite, quartz feldspar porphyry
 - EARLY TERTIARY
 - ETF 57 Granite and syenite porphyry, rhyolite
 - CRETACEOUS**
 - KY 52 Syenite, monzonite
 - KQM 52 Quartz monzonite, granodiorite; CASSIAR quartz monzonite, alaskite
 - TRIASSIC**
 - TGDN 42 Foliated hornblende granodiorite, quartz
 - PALEOZOIC AND MESOZOIC UNDIVIDED**
 - PMUB 40 Ultramafic rocks
 - PALEOZOIC UNDIVIDED**
 - PN 09 NASINA: Graphitic quartzite, schist
 - PC 09 Limestone
 - PTY 09 Chert, volcanic rocks, slate
 - PV 09 Greenstone, amphibolite
 - PQMN 09 Foliated muscovite quartz monzonite
 - PGDN 09 PELLY GNEISS: Foliated to gneissic granodiorite
 - PERMIAN**
 - SKOLAI GROUP
 - PS 36 Andesite, basalt, ultramafics, pyroclastics, phyllite, chert, limestone, conglomerate
 - CARBONIFEROUS AND PERMIAN**
 - CPS 35 Quartz - muscovite schist
 - CPSM 35 Schist, gneiss, includes BIG SALMON METAMORPHIC COMPLEX
 - CPUB 35 Serpentine, diorite, pyroxenite, peridotite
 - DEVONIAN**
 - DC 25 Limestone, marble
 - ORDOVICIAN, SILURIAN AND LOWER DEVONIAN**
 - OSDR 19 ROAD RIVER: Black graptolitic shale, chert
- *A mnemonic code assigned to rock types and recorded as part of field observations.
- Geological boundary
- Fault
- No analytical result
- Field duplicate sample sites
- Geological base and legend are derived from: Gabrielse, H., Templeton-Kluit, D.J., Blusson, S.L. and Campbell, R.B. (1980) Map 1364, MacMillan River, Yukon - District of Mackenzie - Alaska, NTS Sheet 105, 115, Geological Survey of Canada, Energy, Mines and Resources Canada. 1:1 000 000 Scale.