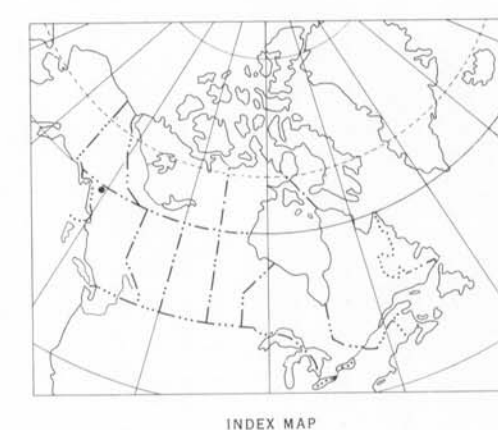
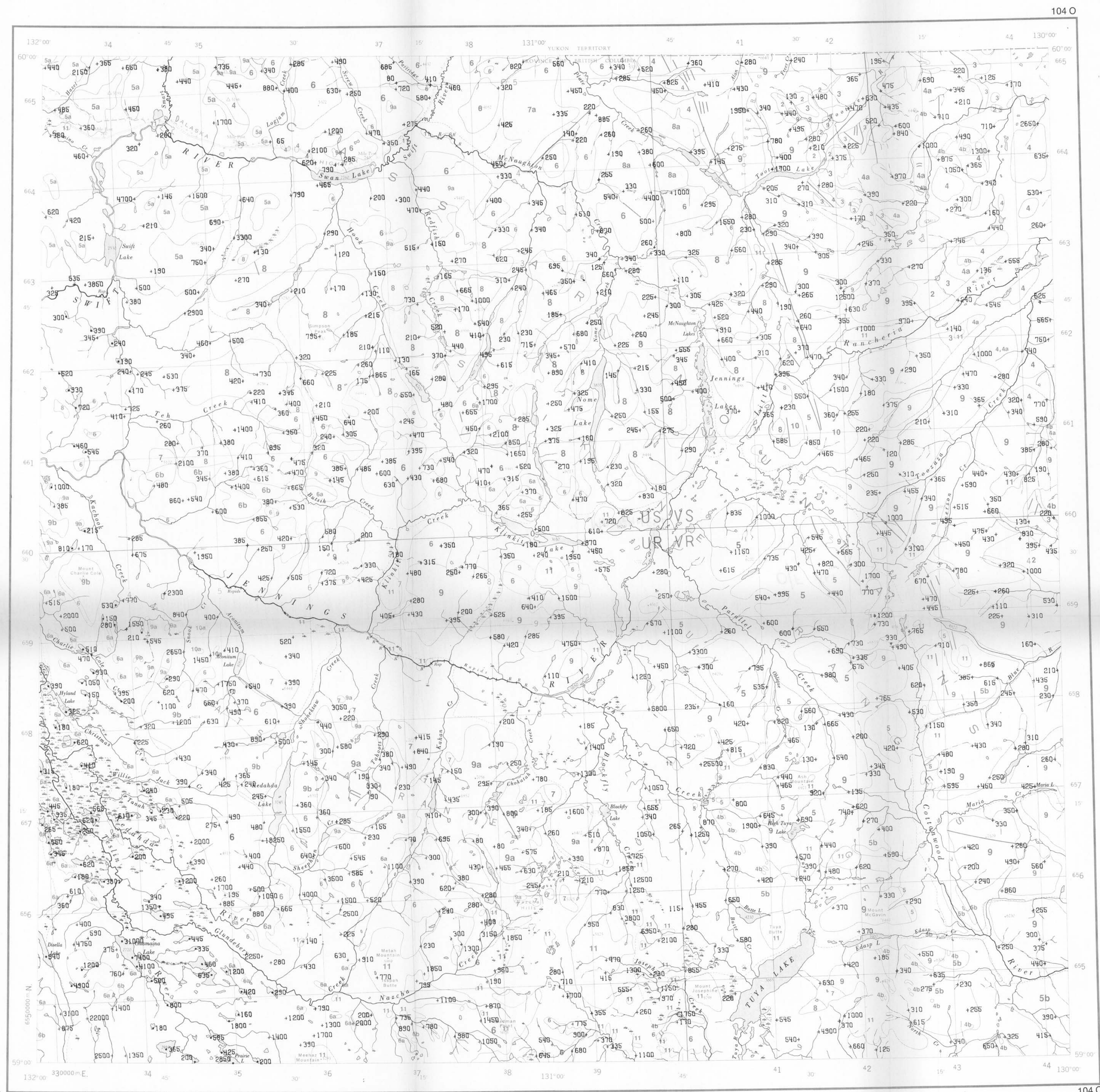


Copies of map material and listings of field observations and analytical data, from which the material was prepared, may be available at users expense by application to:

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

The data is also available in digital form. For further information please contact

The Director  
Computer Science Centre  
Department of Energy, Mines and Resources  
Ottawa, Ontario  
K1A 0E4



Elevation in feet above mean sea level

Mean magnetic declination 1978, 30°51.0' East,  
decreasing 3.2' annually. Readings vary from  
30°31.8' in the SE corner to 31°09.0' in  
the NW corner of the map

MANGANESE (ppm)

OPEN FILE 561

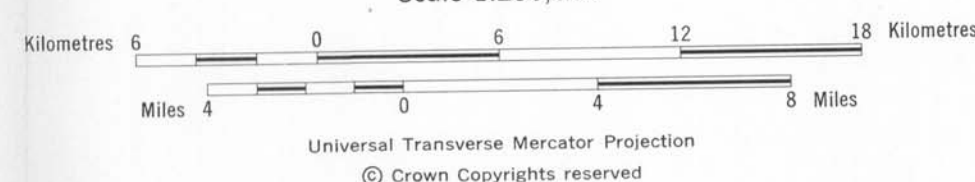
NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 41-1978

URANIUM RECONNAISSANCE PROGRAM

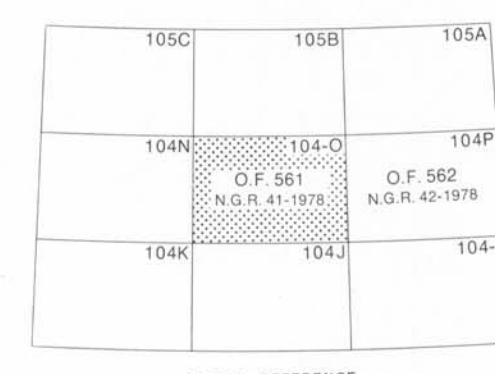
STREAM/LAKE SEDIMENT AND WATER GEOCHEMICAL SURVEY

NORTHERN BRITISH COLUMBIA 1978

Scale 1:250,000



Base-map at the same scale published by the  
Mapping and Charting Establishment, Department of  
National Defence, 1952



This document was produced  
by scanning the original publication.  
Ce document est le produit d'une  
numérisation par balayage  
de la publication originale.

MANGANESE (ppm)

OPEN FILE 561

NORTHERN BRITISH COLUMBIA 1978

LEGEND

Note: This legend is common for National Geochemical Reconnaissance  
Map 41-1978, Open File 561 and Map 42-1978, Open File 562.

QUATERNARY

12 (TILL 64)† Glacial, lacustrine, and fluviate gravel, sand salt, clay

QUATERNARY-TERTIARY

11 (TUFF 63) Tuff; 11a (BSLT 63) basalt; 11b (CGLM 56) conglomerate

LATE CRETACEOUS-EARLY TERTIARY

10 (QZMZ 56) Quartz monzonite

EARLY-MIDDLE CRETACEOUS

9 (QZMZ 52) Cassiar-Klinkit-Tuya-Parallel Creek Batholiths: Biotite-  
quartz monzonite; 9a (GRNT 53) Glendeberry Batholith: miarolitic  
hornblende granite, granite porphyry

JURASSIC-CRETACEOUS

9b (QRZD 51) Charlie Cole Stock - Christmas Creek Batholith: hornblende-  
quartz diorite

UPPER JURASSIC-MIDDLE JURASSIC

8 (QZMZ 48) Simpson Peak-Nome Lake Batholith: biotite-hornblende-quartz  
diorite, hornblende-biotite granodiorite; 8a, (QRZD 48) Plate Creek  
Batholith: quartz diorite

TRIASSIC-JURASSIC

7 (GRNS 46) Shonetak and Nazcha Formations: greenstone, augite porphyry,  
volcanic conglomerate, tuff; 7a (GRCK 48) feldspathic quartzite, greywacke

PERMIAN-CARBONIFEROUS

6 Kedahda Formation: (CHRT 30) chert, argillite; 6a (LMSN 30) limestone;  
6b (GRNS 30) greenstone

CARBONIFEROUS

5 (PLLT 30) Oblique Creek Formation: phyllitic meta-chert, phyllitic  
argillite, micaceous quartzites; 5a (GNSS 30) Big Salmon Complex:  
gneiss and mica schist, hornfels; 5b (GNSS 30) gneiss, schist

UPPER DEVONIAN-MISSISSIPPIAN

4 (GRNS 29) Sylvester Group: greenstone (and undivided sediments); 4a  
(CHRT 29) Sylvester Group: chert, argillite, arenite; 4b (SRPN 29)  
serpentinite, dunite, peridotite

LOWER ORDOVICIAN-SILURIAN-MIDDLE DEVONIAN

3 (DLMT 25) McDame-Sandpile Groups: dolomite, sandy dolomite; 3a (AGCL 14)  
Kechika Group: argillite; 3b (LMSN 14) limestone, calcareous phyllite

UPPER PROTEROZOIC-CAMBRIAN

2 Atan-Good Hope Groups (LMSN 8) limestone, dolomite; 2a (QRTZ 11)  
quartzite

UPPER PROTEROZOIC

1 (QRTZ 7) Horseranch Group: quartzite, granite gneiss, augen gneiss

A four letter mnemonic name recorded as rock type and two digit number  
recorded as age as part of field observations

Geological boundary.....

Fault.....

No analytical result.....

Lake sample site.....

Stream sample site.....

This legend was modified and the geology derived for this geochemical map  
from Geological Survey of Canada, Maps 18-1968 and 1110 A.

Geological Survey of Canada  
Resource Geophysics and Geochemistry Division  
and

Province of British Columbia  
Ministry of Energy, Mines and Petroleum Resources

CONTRACTORS

Sample collection by BEMA Ltd.  
Sample preparation by Golder Associates  
Uranium in sediment chemical analyses by Atomic Energy of Canada Ltd.  
Other sediment chemical analyses by Chemex Labs Ltd.  
Water chemical analyses by Barringer Magenta Ltd.

This map forms one of a series of 28 maps released by the Geological  
Survey of Canada, Open File 561 and 562. The Open File consists of  
maps for 11 elements, each for stream/lake sediments, 1 element for  
stream/lake water and 1 each for sample site location and water pH.

MANGANESE (ppm)

OPEN FILE 561

NORTHERN BRITISH COLUMBIA 1978