

REGIONAL LAKE SEDIMENT GEOCHEMICAL RECONNAISSANCE DATA, MANITOBA 1975, GSC-OF321, NTS 64K

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\* OPEN FILE 321 \*  
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GEOLOGICAL SURVEY OF CANADA

REGIONAL LAKE SEDIMENT GEOCHEMICAL RECONNAISSANCE DATA

THE FOLLOWING TABLES DISPLAY THE DATA RECORD FORMAT SPECIFICATIONS.

THE FIELD DATA WAS STORED AS FOLLOWS:

| ELEMENT          | CARD COLUMNS |
|------------------|--------------|
| MAP              | 1 01-06      |
| ID               | 1 07-12      |
| UTM ZONE         | 1 13-14      |
| UTM EAST         | 1 15-20      |
| UTM NORTH        | 1 21-27      |
| ROCK TYPE        | 1 28-31      |
| LAKE AREA        | 1 32-35      |
| SAMPLE DEPTH     | 1 36-38      |
| REPLICATE STATUS | 1 39-40      |
| RELIEF           | 1 41-43      |
| COMPOSITION      | 1 44-46      |
| GEL              | 1 47         |
| CONTAMINATION    | 1 48-51      |
| SAMPLE COLOUR    | 1 52-57      |
| SUSPENDED MATTER | 1 58-59      |

THE ANALYTICAL DATA WAS STORED AS FOLLOWS:

(THE SECOND FIGURE UNDER THE DETECTION LIMIT HEADING IS USED  
ARBITRARILY TO DENOTE VALUES BELOW THE DETECTION LIMIT-USUALLY  
1/2 DETECTION LIMIT)

| ELEMENT | UNITS | CARD COLUMNS | DETECTION | LIMIT | METHOD     | ATTACK   | PREPARATION |
|---------|-------|--------------|-----------|-------|------------|----------|-------------|
| ZN      | PPM   | 2 21-25      | 2         | 1     | AA-AIRACET | NGR-1    | CRGRBALL    |
| CU      | PPM   | 2 26-30      | 2         | 1     | AA-AIRACET | NGR-1    | CRGRBALL    |
| PB      | PPM   | 2 31-35      | 2         | 1     | AA-AIRACET | NGR-1    | CRGRBALL    |
| NI      | PPM   | 2 36-40      | 2         | 1     | AA-AIRACET | NGR-1    | CRGRBALL    |
| CO      | PPM   | 2 41-45      | 2         | 1     | AA-AIRACET | NGR-1    | CRGRBALL    |
| AG      | PPM   | 2 46-50      | 0.2       | 0.1   | AA-AIRACET | NGR-1    | CRGRBALL    |
| MN      | PPM   | 2 51-55      | 5         | 2     | AA-AIRACET | NGR-1    | CRGRBALL    |
| AS      | PPM   | 2 56-60      | 1.0       | 0.5   | NGR-AGDDC  | NGR-AS1  | CRGRBALL    |
| MO      | PPM   | 2 61-65      | 2         | 1     | AA-N2OACET | HNO3HCL4 | CRGRBALL    |
| FE      | PCT   | 2 66-70      | 0.02      | 0.01  | AA-AIRACET | NGR-1    | CRGRBALL    |
| HG      | PPB   | 2 71-75      | 10        | 5     | AA-SILICA  | HNO3HCL5 | CRGRBALL    |
| LOI     | PCT   | 2 76-79      | 1.0       | 0.5   |            | NGR-LOI  |             |
| U       | PPM   | 3 21-25      | 0.2       | 0.1   | DNC-U      |          | CRGRBALL    |

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DATA LIST LEGEND

MAP - NATIONAL TOPOGRAPHIC SYSTEM(NTS)-LETTERED QUADRANGLE

ID - REMAINDER OF SAMPLE NUMBER-YEAR(2),FIELD CREW(1),  
SAMPLE SEQUENCE NUMBER(3)

UTM COORDINATS - UNIVERSAL TRANSVERSE MERCATOR(UTM) COORDINATE  
SYSTEM - SAMPLE COORDINATES  
ZN - ZONE  
EAST - EASTING(METERS)  
NORTH - NORTHING(METERS)

ROCK TYPE - MAJOR ROCK TYPE OF LAKE CATCHMENT AREA

LAKE AREA - AREA OF LAKE SAMPLED

SMP DTH - SAMPLE DEPTH MEASURED TO THE NEAREST FOOT

RP ST - REPLICATE STATUS - RELATIONSHIP OF SAMPLE WITH  
RESPECT TO OTHERS WITHIN THE SURVEY

REL F - RELIEF OF THE SURROUNDING LAKE CATCHMENT BASIN

COM - BULK MECHANICAL COMPOSITION OF SAND,FINES AND  
ORGANICS IN THAT ORDER

GEL - PRESENCE OF AN ORGANIC GEL OR GYTJJA

CONT - CONTAMINATION - HUMAN OR NATURAL(WORK-DRILL/TRENCH,  
CAMP,FUEL OR GOSSAN)

SMPL COLOR - SEDIMENT COLOUR

SUSP - SUSPENDED MATTER

ZN - ZINC BY ATOMIC ABSORPTION SPECTROSCOPY (PPM)  
CU - COPPER BY ATOMIC ABSORPTION SPECTROSCOPY (PPM)  
PB - LEAD BY ATOMIC ABSORPTION SPECTROSCOPY (PPM)  
NI - NICKEL BY ATOMIC ABSORPTION SPECTROSCOPY (PPM)  
CO - COBALT BY ATOMIC ABSORPTION SPECTROSCOPY (PPM)  
AG - SILVER BY ATOMIC ABSORPTION SPECTROSCOPY (PPM)  
MN - MANGANESE BY ATOMIC ABSORPTION SPECTROSCOPY (PPM)  
AS - ARSENIC BY COLOURIMETRY (PPM)  
MO - MOLYBDENUM BY ATOMIC ABSORPTION SPECTROSCOPY (PPM)  
FE - IRON BY ATOMIC ABSORPTION SPECTROSCOPY (%)  
HG - MERCURY BY FLAMELESS SPECTROSCOPY (PPB)  
LOI - LOSS ON IGNITION BY WEIGHT DIFFERENCE (%)  
U - URANIUM BY DELAYED NEUTRON ACTIVATION (PPM)

ROCK TYPE:  
GNSS - GNEISS  
GRNT - GRANITE  
MGMT - MIGMATITE  
UKNN - UNKNOWN

LAKE AREA:  
POND - POND  
LT 1 - 1/4 TO 1 SQ. KM.  
1-5 - 1 TO 5 SQ. KM.  
GT 5 - GREATER THAN 5 SQ. KM.

RP ST:  
00 - ROUTINE SAMPLE  
10 - FIRST OF FIELD DUPLICATE  
20 - SECOND OF FIELD DUPLICATE

REL F:  
L - LOW  
M - MEDIUM  
H - HIGH

COM:  
0 - ABSENT  
1 - MINOR(1-33%)  
2 - MEDIUM(33-66%)  
3 - MAJOR(66-100%)

GEL:  
0 - ABSENT  
1 - PRESENT

CONT:  
BLANK - NONE  
1 - PRESENT

SMPL COLOR:  
TN - TAN  
YL - YELLOW  
GN - GREEN  
GY - GREY  
BR - BROWN  
BK - BLACK

SUSP:  
BLANK - NONE  
L - LIGHT  
H - HEAVY