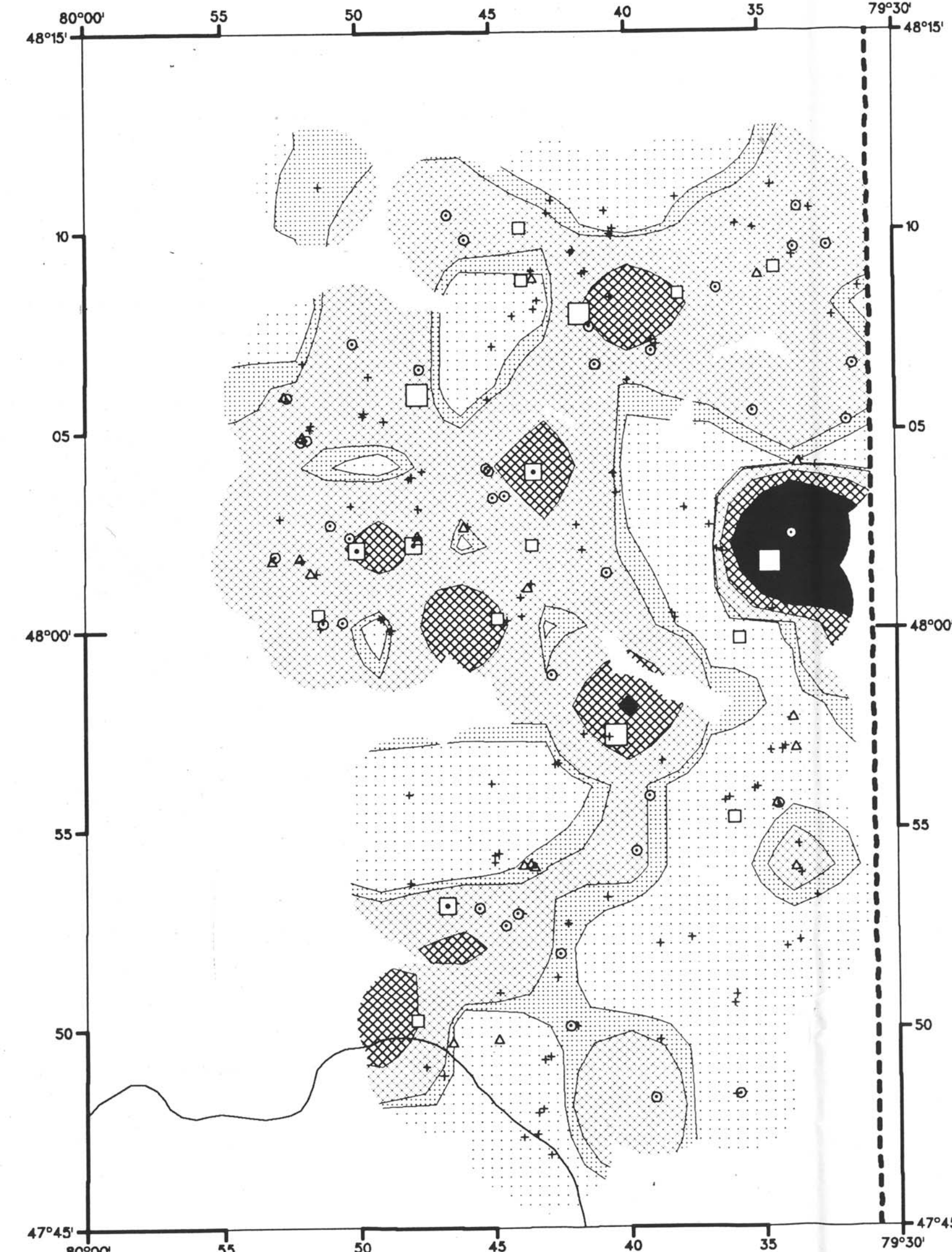


GOLD (ppb)  
STREAM SEDIMENTS  
SBC OPEN FILE 2178  
NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 140/80  
CANADA - ONTARIO  
MINERAL DEVELOPMENT AGREEMENT  
(1985-1990)

STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY  
NORTHEAST ONTARIO, 1989

REGIONAL TREND MAP



**SURFICIAL GEOLOGY**

Op Organics, peatland deposits  
GL Glaciolacustrine and glaciomarine deep water deposits; clay, silt and sand  
GF Glaciolacustrine deposits; includes shallow water glaciolacustrine and glaciomarine deposits; predominantly sand and gravel  
MV Shallow drift; thin glacial sediments, mostly overlying bedrock  
R Bedrock; predominantly bare rock or thin glacial sediment cover

**SYMBOLS**

Water

**Sources of Information:**

Lee, M.A. 1979. Northern Ontario Engineering Geology Terrain Study. Data Base Map Larder Lake. O.G.S. Map 501, Scale 1:100,000.

Road, M.A. and Hallett, D.R. 1979. Northern Ontario Engineering Geology Terrain Study. Data Base Map New Liskard. O.G.S. Map 502, Scale 1:100,000.

**GEOLOGICAL SURVEY OF CANADA  
MINERAL REVENUE DIVISION  
EXPLORATION GEOCHEMISTRY SUBDIVISION**

**CONTRACTORS**

Collection: Ontario Ministry of Northern Development and Mines personnel, Kirkland Lake, Ontario

Preparation: Oakley Associates, Ottawa, Ontario

Sediment Analysis: Bender-Clegg & Co. Ltd., Ottawa, Ontario

Water Analysis: Chemex Labs Ltd., North Vancouver, British Columbia

Cartography: Les Services Cartographiques 2 + 1 Inc., Gatineau, Quebec

Reproduction: Ashley Reproductions Ltd., Ottawa, Ontario

Copies of the Open File are available from:  
Geological Survey of Canada  
Publication Distribution  
601 Booth Street  
Ottawa, Ontario, K1A 0S8  
Tel: (613) 995-4342

**Gold-NA  
Stream Sediment**

ppb STILE  
326 MAX  
23 95  
12 91  
8 83  
4 70  
-defection - MN  
200 SAMPLES

**GEOLOGY LEGEND**

**PALEOZOIC**

**LOWER AND MIDDLE SILURIAN**

18 RSW 20" Thornloe Formation: limestone, dolomite, sandstone  
Wabi Formation: limestone, shale

**MIDDLE AND UPPER ONDOWICIAN**

17 ODSB 15 Dawson Point Formation: shale  
Farr Formation: limestone  
Bucke Formation: limestone, shale  
Guigas Formation: sandstone

**PRECAMBRIAN**

**MIDDLE PRECAMBRIAN (PROTEROZOIC)**

**Mafic Intrusive Rocks**

14 DMI 04 Diabase, granophyre  
Huronian Supergroup  
Cobalt Group

13 DUCU 04 Lorrain Formation: quartzite, arkose  
12 DUCU 04 Gowanda Formation: Coleman Member - conglomerate, arkose, greywacke, quartzite, argillite

**EARLY PRECAMBRIAN (ARCHAEN)**

**Felsic Intrusive Rocks**

10 AFIO 02 Quartz porphyry, quartz - feldspar porphyry, feldspar porphyry, granophyre, diorite, quartz monzonite, porphyry  
9 AFIS 02 Syenite, monzonite, feldspar porphyry

**Metamorphosed Mafic and Ultramafic Rocks**

8 AMM 02 Gabbro, diorite, langphyre  
7 AMO 02 Peridotite, dunite, pyroxenite, serpentinite

**Metasediments**

6 AMC 02 Conglomerate, greywacke, siltstone, slate, argillite  
5 AMG 02 Greywacke, siltstone, slate, argillite, and minor pelitic conglomerate

**Metavolcanics**

4 AMV 02 Alkaline Metavolcanics: trachyte, basaltic trachyte, flows, tuff, breccia

3 AMX 02 Felsic Metavolcanics: pyroclastic rocks, flows  
2 AMN 02 Intermediate and Mafic Volcanics: intermediate flows, intermediate pyroclastic rocks; mafic flows and pyroclastic rocks

1F AIF 02 Iron Formation: and ferruginous chert (occurs on borders of stratigraphic units 1, 2, 4 and 5)

\* Map unit number assigned to rock type; numbers taken from O.G.S. Map 2205.

\*\* A mnemonic code assigned to rock type and age.

**SYMBOLS**

Geological boundary .....  
Fault.....  
No data.....  
Single analysis.....  
Repeat analysis.....  
Single analysis, less than detection limit.....  
Field duplicate site .....

Scale 1:50 000 - Enchale 1:50 000  
Elevations: Feet - Meters  
United Nations Member Nations  
© Data de la Commission Internationale de l'Exploration Géologique

Elevation in feet above mean sea level  
Magnetic declination in 1990 for the central part of the map area (48°N; 79°45'W) is 11°51'W increasing 2.3' annually. Magnetic declination ranges from 11°19'W increasing 3.0' annually in the southwest corner of the map area, to 12°19'W increasing 2.0' annually, in the northeast corner of the map area.

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

GOLD (ppb)  
STREAM SEDIMENTS  
SBC OPEN FILE 2178  
NORTHEAST ONTARIO, 1989