

MINERAL DEPOSITS AND OCCURRENCES IN THE ISLAND LAKE (53F/12,13) AREA, MANITOBA

To accompany Report No. 32 of the Mineral Deposit Series

MINERAL DEPOSIT TYPE

- STRATABOUND MASSIVE SULPHIDE-TYPE DEPOSITS
 - a) Volcanic rock associated
 - b) Sedimentary rock associated
 - c) Alteration zone associated with a or b
- CHEMICAL SEDIMENT-TYPE DEPOSITS
 - a) Sulphide facies iron formation
 - b) Oxide facies iron formation
 - c) Carbonate facies iron formation
 - d) Silicate facies iron formation
 - e) Other chemical sediments
- VEIN-TYPE DEPOSITS
 - a) Single vein
 - b) Multiple veins or lenses
 - c) Stockwork
- MAGMATOGENIC-TYPE DEPOSITS ASSOCIATED WITH MAFIC/ULTRAMAFIC ROCKS
 - a) Disseminated
 - b) Layered
 - c) Net textured
 - d) Podiform
- DEPOSITS WITH PORPHYRY AFFINITIES
- PEGMATITE-TYPE DEPOSITS
- CLASTIC SEDIMENT-TYPE DEPOSITS
- REPLACEMENT-TYPE DEPOSIT
- DISSEMINATED MINERALIZATION (NOT CLASSIFIED)

IMMEDIATE HOST ROCK* TO MINERALIZATION

(Appendage in the 9 o'clock position)

- Rhyolitic volcanic rocks
- Dacitic volcanic rocks
- Intermediate volcanic rocks
- Basaltic volcanic rocks
- Ultramafic volcanic rocks
- Chert, cherty rocks
- Sericitic schist
- Chloritic schist
- Shale, silt, phyllite
- Sandstone, arkose
- Greywacke
- Quartzite
- Calc-silicate-rich rocks (metasome)
- Chemical sediments
- Breccia
- Conglomerate
- Felsic intrusive rocks
- Intermediate intrusive rocks
- Mafic intrusive rocks
- Ultramafic intrusive rocks

*or metamorphic equivalent

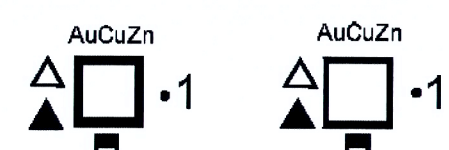
TYPE OF MINERALIZATION

(Appendage in the 6 o'clock position)

- Trace (<1%)
- Minor (1-10%)
- Moderate (10-60%)
- Near solid (50-75%) to solid (>75%)
- Near solid to solid stratified
- Near solid to solid zoned

* by volume

EXPLANATION OF MINERAL DEPOSIT AND OCCURRENCE SYMBOLS



1 Occurrence location and reference number

Mineral deposit

Mineral occurrence

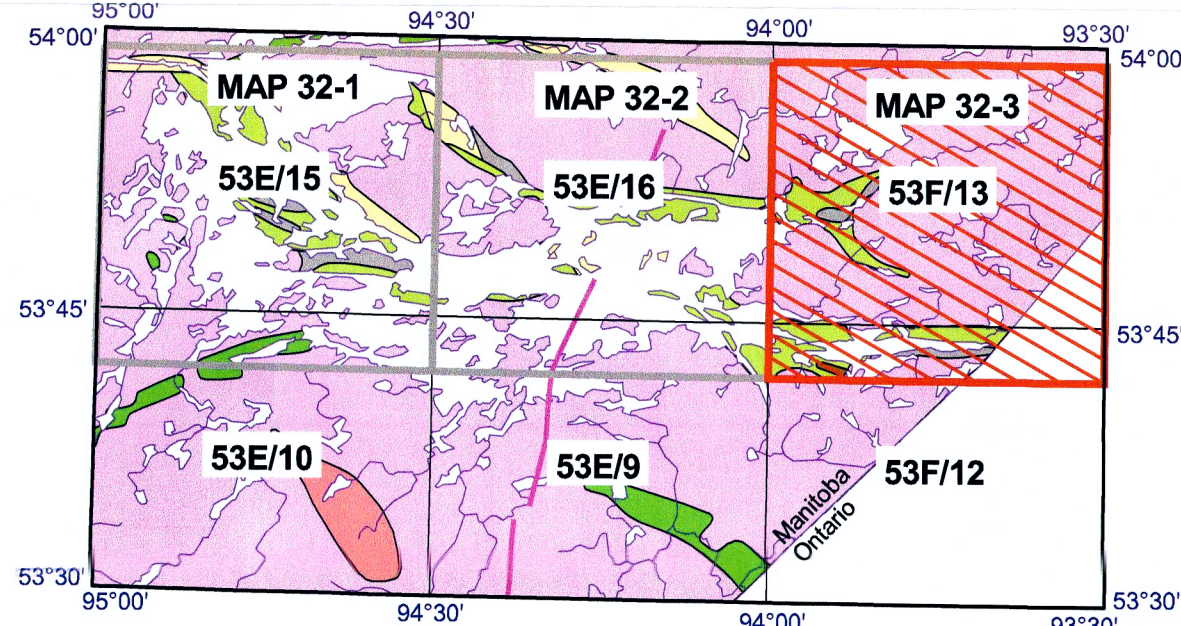
Immediate host rock to mineralization

Type of mineralization

AuCuZn Elements present (in order of increasing abundance)

*Exact locations indicated by a dot or outline of mineralization in solid black. Approximate locations indicated by an x.

INDEX TO MAP SHEETS



Mineral deposit interpretation and compilation by
P. Theyer

Geological compilation by
H.P. Gilbert and P. Theyer

Digital cartography by B. Lenton and P. Lenton

Suggested reference:
Theyer, P. 2000. Mineral deposits and occurrences in the Island Lake area, NTS 53E/15, 16, 53F/13 and parts of 53E/9, 10 and 53F/12. Manitoba Industry, Trade and Mines, Geological Survey, Mineral Deposit Series Report No. 32, 189 p.

MANITOBA MINERAL DEPOSIT SERIES

The Mineral Deposit Series is designed to provide the explorationist with an up-to-date reference and accurate geographic locations for known mineralization within the province. A descriptive classification of the mineralization into deposit types will assist mineral explorationists in the formulation of exploration strategies.

Mineral occurrences with known tonnage and metal grades are designated as deposits and are highlighted with bold deposit-type symbols. Where more than one deposit type is known to occur at a locality, the deposit type with the greatest economic potential is indicated. For example, a 30 cm thick solid sulphide layer of the massive sulphide deposit type is indicated instead of a 2 m thick graphic sulphide layer of the chemical sediment deposit type at the same locality. Mineral occurrence data not displayed on the map are referenced in a companion report to enable the explorationist to modify the classifications in keeping with new developments or concepts.

The basic publication unit for the Mineral Deposit Series will be the 1:50 000 NTS sheet, on which deposits and occurrences are indexed consecutively. Where the density of data warrants the publication of a 1:20 000 map sheet (e.g. 63K/13SE), location numbers may not be consecutive and intervening numbers will be found on the remaining portions of that NTS map sheet (e.g. 63K/13SW).

The accompanying report contains a synthesis of known information for each locality on Exploration History, Geological Setting, Mineralization, Deposit Type and References. The reports contain detailed maps that include precise locations, drill hole and trench locations and wherever possible detailed geological maps of the property. The database used to derive the reports will reside in active mineral deposit files in the possession of the mineral deposit geologists at the Manitoba Geological Survey.

The Mineral Deposit Series will be updated periodically as new information becomes available. Consequently, any errors, omissions or suggestions for improvement should be brought to the attention of the Director, Manitoba Geological Survey.

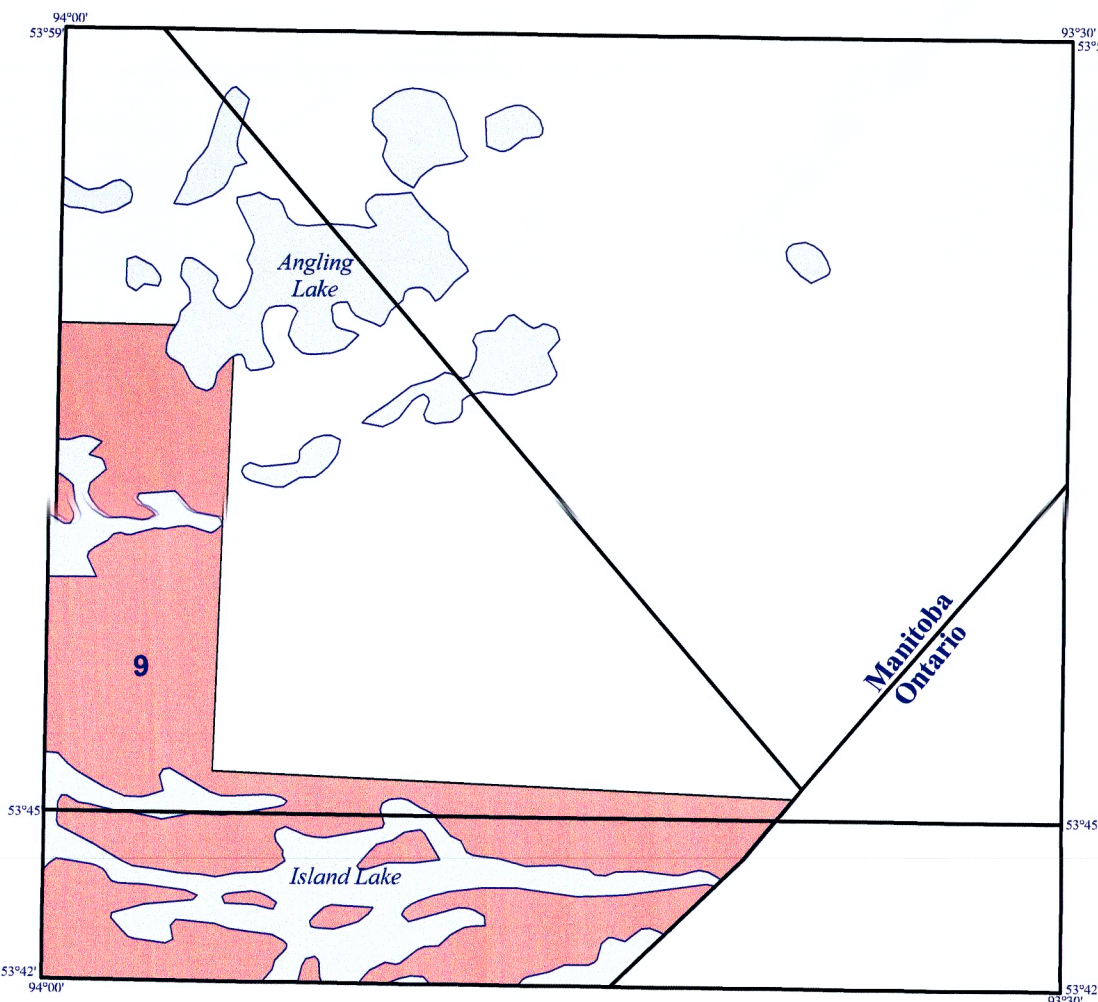
GEOLOGICAL LEGEND

- 12 Tonalite, quartz diorite, granodiorite, granite, feldspar-quartz porphyry, related orthogneiss (intruded by Molson diabase dykes and late diorite-syenite plugs)
- 11 Greywacke, siltstone, argillite
- 10 Polymictic conglomerate, arkosic and feldspathic wackes, siltstone
- 9 Felsic volcanic and related sedimentary rocks
- 8 Quartz-feldspar porphyry
- 7 Mafic intrusive rocks
- 6 Ultramafic intrusive rocks; related subvolcanic or extrusive rocks
- 5 Tonalite, granodiorite; minor diorite and felsic porphyry; related migmatite
- 4 Polymictic conglomerate
- 3 Greywacke, siltstone, argillite; minor conglomerate, carbonate, chert, iron formation; related schist
- 2 Felsic to intermediate volcanic flows and fragmental rocks; related intrusive rocks
- 1 Mafic volcanic flows and fragmental rocks; related intrusive rocks

Symbols

- Defined contact
- Shear, fault
- EM conductors
- NTS sheet boundary
- Fold Axes
 - Anticline
 - Overtured anticline
 - Syncline
 - Overtured syncline

GEOLOGICAL MAP SOURCE



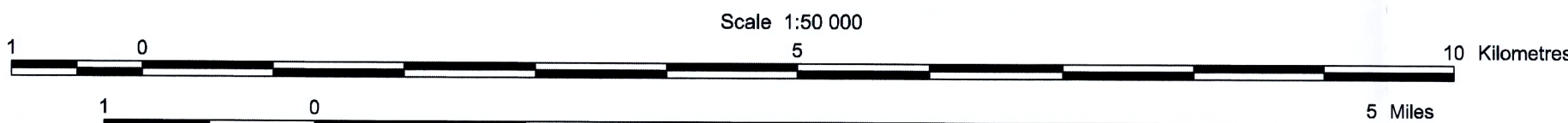
- 9) Godard, J.D. 1963. Sagawichewan Bay, Manitoba. Mines and Natural Resources, Mines Branch, Map 60-2, 1:63 360.

UTM COORDINATES FOR MINERAL DEPOSITS/OCCURRENCES

MINERAL OCCURRENCE NUMBER	UTM NORTHING (METRES)	UTM EASTING (METRES)
NTS 53F/12		
1	5955061	434048
2	5954834	434464
3	5953183	435531
4	5954421	437993
5	5954129	439658
6	5954348	441371
7	5953808	441751
8	5954042	450520
NTS 53F/13		
1	5956293	441771

Information on this map is portrayed in Universal Transverse Mercator projection, Zone 15, North American Datum 1983.

The magnetic declination in the centre of the map in year 2000 is:
5° east (decreasing by 5.1° annually)



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