

MRD391 METADATA

GENERAL INFORMATION

Title

Geochemical Data from Graphitic Metasedimentary Rocks of the Shebandowan Greenstone Belt, Northwestern Ontario

Alternate Title

MRD391

Author(s)

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Date of Publication

January 26, 2021

Abstract

Between 2017 and 2019, staff of the Thunder Bay Resident Geologist Office collected 85 samples of altered graphitic and exhalative metasedimentary rock from various locations in the Shebandowan greenstone belt west of the city of Thunder Bay. Three samples collected from the Schreiber–Hemlo greenstone belt (an area where future sampling is planned) are also included with this data set. The program included the collection of outcrop samples and drill core samples. All drill core was obtained from the Ontario Geological Survey's Thunder Bay and Conmee Township core repositories. Samples were analyzed by the Ontario Geological Survey Geoscience Laboratories (Geo Labs) in Sudbury for the same comprehensive suite of major, minor and trace elements that were included in the Abitibi greenstone belt studies of Barrie (2005, on Miscellaneous Release—Data 173). This release comprises 1 Microsoft® Excel® for Office 365 (.xlsx) workbook file and 8 documents in portable document format (.pdf).

Additional information can be found within a readme file provided with the product.

Purpose or Objective

The purpose of this sampling was to test the applicability of the graphitic argillite gold alteration index method of Barrie (2005, on Miscellaneous Release—Data 173) as an exploration targeting tool in the Shebandowan greenstone belt, and to establish a geochemical database for graphitic metasedimentary rocks. Preliminary results indicate that the method is applicable to greenstone belts in northwestern Ontario, not just the Abitibi greenstone belt.

The objective of this product is to collect and disseminate geoscience information for Ontario.

Keywords

Geological Survey

Geology

Ministry of Energy, Northern Development and Mines

ENDM

Ministry of Northern Development and Mines

MNDM

Ontario Geological Survey
OGS
Miscellaneous Release—Data
MRD
Precambrian Bedrock Geology
Archean Bedrock Geology
Superior Province (Geological)
Geochemical Geochemistry
Bedrock Geochemistry
Analysis, Analyses
Gold (Au)
Major Elements
Trace Elements
Mineral Exploration
Research and Development

Business Themes

Geological Survey
Geology

GEOGRAPHIC INFORMATION

Geographic bounding box (decimal degrees)

North bounding latitude:	48.6833°
West bounding longitude:	-91.0000°
East bounding longitude:	-89.5000°
South bounding latitude:	48.3667°

Description of Completeness: irregularly shaped study area - completeness not available

MAPPING INFORMATION:

Grid Coordinate System Used:	Universal Transverse Mercator
Map Projection:	Transverse Mercator
Horizontal Geodetic Datum:	NAD83
Vertical Datum:	Not Applicable
Horizontal Position Accuracy of Features:	Precise ±5 m
Vertical Position Accuracy of Features:	Not Applicable

DATA SOURCE INFORMATION

Data Source Type and Description

Includes Bibliographic Information: Product includes references to other sources of information

Data Source Type and Description

Direct Field Collection: Direct collection from field samples and archived drill core between 2017 and 2019. Whole-rock analytical data from 2017 to 2020 on selected drill-core and outcrop samples.

Data Source Type and Description

Other Data Sets: Includes comparisons with data from Ontario Geological Survey Miscellaneous Release—Data 173 (MRD173).

Current Status of the Data: Complete

Frequency of Changes or Additions to be made to the Data: Not Planned

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