

MISCELLANEOUS RELEASE—DATA (MRD) 359 METADATA

GENERAL INFORMATION

Official Name of the Data Set or Information Holding:

Till Geochemical and Mineralogical Data for Drury and Denison Townships, City of Greater Sudbury

Acronyms are Used to Identify the Data Set or Information Holding: MRD359

Describe the Data Set or Information Holding:

Hashmi, S. (author)

This publication can be downloaded from GeologyOntario: see Distribution Information section.

This digital data release comprises the results of a regional till sampling and surficial mapping project conducted in 2015 and 2016 in Drury and Denison townships. The results of geochemical and mineralogical analyses are provided for 12 whole rock, 113 humus, 112 B horizon and 126 C horizon till samples and 115 C horizon till heavy mineral concentrates; and includes loss on ignition. The data consist of heavy mineral grain counts that include kimberlite indicator minerals, chromite, metamorphic/magmatic massive sulphide indicator minerals (MMSIM®[1]), and gold grains; and pebble lithology data. All sample location information is presented as Universal Transverse Mercator co-ordinates using North American Datum 1983 (NAD83) in Zone 17 and is accompanied by site descriptions. The data files are provided as 53 Microsoft® Excel® 2013 (.xlsx) files along with 5 supporting documents in portable document format (.pdf).

The data are released in conjunction with Open File Report 6342, “Quaternary Geology and Surficial Media Sampling in Drury and Denison Townships, City of Greater Sudbury”, and augments Preliminary Map P.3801, “Quaternary Geology, Drury and Denison Townships”, which was released in 2016; each of these publications is available separately.

Additional information and metadata are found within a readme file provided with the product.

[1] MMSIM is a registered trademark of Overburden Drilling Management Limited, Nepean, Ontario.

The Intended Use and Purpose for Collecting the Data Set or Information Holding:

This project is part of a 5-year, multi-disciplinary research program on low-sulphide, PGE-rich footwall mineralization, currently being conducted by the Mineral Exploration Research Centre (MERC) of the Harquail School of Earth Sciences at Laurentian University. This is a collaboration between the Ontario Geological Survey and the

mining industry to develop an integrated geological, geochemical and geophysical exploration model for low-sulphide, PGE mineralization in the Sudbury Structure.

This work was supported by the Ontario Geological Survey. The results form part of the requirements of the author's PhD thesis, supervised by Dr. M. Leybourne at the Department of Geological Sciences and Geological Engineering at Queen's University.

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

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Hashmi, S. 2018. Till geochemical and mineralogical data for Drury and Denison townships, City of Greater Sudbury; Ontario Geological Survey, Miscellaneous Release—Data 359.

ISBN 978-1-4868-2262-1 (CD) ISBN 978-1-4868-2263-8 (zip file)

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Describe any Legislated or Legal Authority for Collecting the Data Set: N/A

Select the Level of Privacy for this Metadata Information: Public

Time Coverage: June 13, 2018

Time Coverage Comments: Date of Publication.

Enter or Select the Current Status of the Data Set: Complete

Enter or Select the Frequency with which Changes or Additions are Made to the Data Set: Not Planned

Enter the retention schedule number: 9999

Retention period or description: PT

Keywords:

Geological Survey

Geology

Ministry of Northern Development and Mines

MNDM

Ontario Geological Survey

OGS

Miscellaneous Release Data

MRD

Surficial Geology, General

Quaternary Surficial Geology

Glacial Deposits

Glacial Till Soils

Till

Humus

Alluvium

Soils

Geochemical Geochemistry

Overburden Geochemistry

Gold Au

Nickel-Copper-Platinum Group Elements (Ni-Cu-PGE)

PGE Platinum Group Elements Pt Palladium Osmium

Business Theme:

Geological Survey

Geology

GEOGRAPHIC INFORMATION

Selected geographic type: Bounding Box only

North Bounding Latitude: 46° 28'

South Bounding Latitude: 46° 22'

West Bounding Longitude: -81° 34'

East Bounding Longitude: -81° 18'

Geographic 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: +/- 10 m

Vertical Position Accuracy of Features: Not Applicable

DATA SOURCE INFORMATION

Data Source Type: Includes Bibliographic Information

Describe for the Source Data Contribution: Product includes references to other sources of information

Data Source Type: Direct Field Collection

Source Data Set Description: Field work conducted between May 2015 and October 2016

CONTACT INFORMATION**GENERAL CONTACT:**

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METADATA

Date of this Metadata Description/Update: June 5, 2018

Date when Metadata Should be Reviewed: December 31, 2019

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