MRD392 METADATA

GENERAL INFORMATION

Title
Results of Till and Esker Sand Sampling in the Great Clay Belt of Northeastern Ontario

Alternate Title
MRD392

Author(s)
Marich, A.S.

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Abstract
This digital data release presents the results of till and esker sand sampling as part of a Quaternary geology mapping program conducted within the Great Clay Belt of northeastern Ontario between 2016 and 2019. The data comprise fine-fraction (-63 µm) geochemical analyses and geochemical and compositional analyses of particulate gold grains, metamorphic/magmatic massive sulphide indicator minerals (MMSIM®[1]) and kimberlite indicator minerals (KIMs) recovered from Matheson (12 samples) and Cochrane (40 samples) till samples. Files, provided as 9 Microsoft® Excel® for Office 365 (*.xlsx*) workbook files, contain information on sample site locations, geochemical analyses, gold grain data, MMSIM® data, KIMs data and pebble lithology data. Also included are previously published *Summary of Field Work and Other Activities* articles that are related to the project, for 2016, 2017, 2018 and 2020, as portable document format (*.pdf*) files. These data are being released in conjunction with Open File Report (OFR) 6369, *Quaternary Geology Mapping in the Great Clay Belt of Northeastern Ontario: A Study of Sediments and Glacial Landforms Along the Highway 11 Corridor from Kapuskasing to Iroquois Falls*, and augment Preliminary Maps P.3836, *Quaternary Geology of the Kapuskasing Area, Northeastern Ontario*; P.3837, *Quaternary Geology of the Smooth Rock Falls Area, Northeastern Ontario*; P.3838, *Quaternary Geology of the Cochrane Area, Northeastern Ontario*; P.3839, *Quaternary Geology of the Abitibi Area, Northeastern Ontario*; and P.3840, *Quaternary Geology of the Iroquois Falls Area, Northeastern Ontario*. The shared geological and symbols legends are also provided in 1 portable document (*.pdf*) format file.
[1]MMSIM is a registered trademark of Overburden Drilling Management Limited, Nepean, Ontario.

The following publications are associated with this publication: OFR6369, P3836, P3837, P3838, P3839, P3840

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

Purpose or Objective
The purpose of this four-year Quaternary geological mapping program was to update and refine the Quaternary geology along the Highway 11 corridor in northeastern Ontario between the towns of Kapuskasing and Iroquois Falls. The study was developed in part to aid the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) in their ongoing efforts to update soils suitability mapping for northeastern Ontario. Previous mapping was completed at a regional scale that was

not adequate for OMAFRA's purposes, or for other geoscience applications including land-use planning, aggregate resource assessment and mineral exploration.

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

Keywords
Geological Survey
Geology
Ministry of Northern Development, Mines, Natural Resources and Forestry
NDMNRF
Ontario Geological Survey
OGS
Miscellaneous Release—Data
MRD
Quaternary Geology
Glacial Deposits
Glacial History
Peat
Till
Sand and Gravel
Stratigraphy
Metamorphic/Magmatic Sulphide Indicator Mineral (MMSIM)
Lidar

Business Themes
Geological Survey
Geology

GEOGRAPHIC INFORMATION

Geographic bounding box (decimal degrees)

North bounding latitude:	49.5000°
West bounding longitude:	-82.5000°
East bounding longitude:	-80.5000°
South bounding latitude:	48.7500°

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: Field work conducted from May to June 2016; from May to June 2017; from May to June 2018; and June 2019.

Current Status of the Data: Complete

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

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CONTACT INFORMATION
(GENERAL CONTACT; DISTRIBUTOR / PUBLISHER CONTACT; METADATA CUSTODIAN / CONTACT; AUTHOR - ORIGINATOR / DATA SET CUSTODIAN)

Ministry of Northern Development, Mines, Natural Resources and Forestry Publication Sales,
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