

MRD383 METADATA

GENERAL INFORMATION

Title

Results of the 2014–2017 Drilling Programs on the Niagara Peninsula: Graphic Logs, Descriptions and Analytical Data

Alternate Title

MRD383

Author(s)

Burt, A.K.

Date of Publication

December 15, 2020

Abstract

This release contains graphic logs, sediment descriptions, interpretations, analytical data, a subsurface database and photographs resulting from 99 continuously cored boreholes drilled as part of the Niagara Peninsula three-dimensional (3-D) sediment mapping project. The data in this release can be used as a geologic framework for interpreting lower quality data (i.e., water well records) surrounding each borehole and to calculate the hydraulic conductivity of borehole sediments. The goal of the multiyear mapping project is to build a regional scale 3-D model of Quaternary deposits that form both regional and local aquifers and aquitards in a region encompassing approximately 5000 km² of the Niagara Peninsula (bounded by Lake Ontario to the north, the Niagara River to the east and Lake Erie to the south) extending west and north to join with the boundaries of the Brantford–Woodstock 3-D project area. This release comprises 18 590 photographs (as *.jpg* files), 6 Microsoft® Excel® for Office 365 (*.xlsx*) workbook files, 99 graphic logs (*.png*), 9 reference maps (*.tif*), a shapefile of borehole locations and 3 documents in portable document format (*.pdf*).

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

Purpose or Objective

This publication reports on part of a multi-year study of the Quaternary sediments across the Niagara Peninsula. This project will produce a three-dimensional model of the Quaternary sediments that will be used for groundwater flow models and land use planning.

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
Quaternary/Surficial Geology
Drill Hole
Glacial Deposits

Overburden
Sediment
3-D Modelling
Three-Dimensional Modelling
Aquifer
Aquitard
Stratigraphy

Business Themes

Geological Survey
Geology

GEOGRAPHIC INFORMATION

Geographic bounding box (decimal degrees)

North bounding latitude:	43.4167°
West bounding longitude:	-80.2500°
East bounding longitude:	-78.9000°
South bounding latitude:	42.7500°

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:	Precise ±5 m

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 2014 to August 2017.

Current Status of the Data: Complete

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

CONSTRAINTS FOR USING THE DATA

Abbreviated Terms of Use.

“Content” and/or “Electronic Information Product” (EIP) and its Content: This Content and/or EIP and its Content is offered by the Province of Ontario's Ministry of Energy, Northern Development and Mines (ENDM) as a public service, on an 'as-is' basis. Recommendations and statements of opinions expressed are those of

the author or authors and are not to be construed as statement of government policy. You are solely responsible for your use of the Content and/or EIP and its Content. You should not rely on the Content for legal advice nor as authoritative in your particular circumstances. Users should verify the accuracy and applicability of any Content before acting on it. ENDM does not guarantee, or make any warranty express or implied, that the Content is current, accurate, complete or reliable or that the EIP is free from viruses or other harmful components. ENDM is not responsible for any damage however caused, which results, directly or indirectly, from your use of the Content and/or the EIP and its Content. ENDM assumes no legal liability or responsibility for the Content and/or the EIP and its Content whatsoever.

Copyright: Canadian and international intellectual property laws protect the Content and the EIP and its Content. Unless otherwise indicated, copyright is held by the Queen's Printer for Ontario.

It is recommended that reference to the Content be made in the following form:

Burt, A.K. 2020. Results of the 2014–2017 drilling programs on the Niagara Peninsula: Graphic logs, descriptions and analytical data; Ontario Geological Survey, Miscellaneous Release—Data 383.

ISBN 978-1-4868-4847-8 (DVD) ISBN 978-1-4868-4848-5 (zip file)

Use and Reproduction of Content: The Content and/or the EIP and its Content may be used and reproduced only in accordance with applicable intellectual property laws. Non-commercial use of unsubstantial excerpts of the Content is permitted provided that appropriate credit is given and Crown copyright is acknowledged. Any substantial reproduction of the Content or any commercial use of all or part of the Content is prohibited without the prior written permission of ENDM. Substantial reproduction includes the reproduction of any illustration or figure, such as, but not limited to graphs, charts and maps. Commercial use includes commercial distribution of the Content, the reproduction of multiple copies of the Content for any purpose whether or not commercial, use of the Content in commercial publications, and the creation of value-added products using the Content.

The complete and entire Terms of Use Agreement may be viewed at [Terms of Use](#)

DISTRIBUTION INFORMATION

General Distribution Information

This publication can be ordered from our office (see "Contact Information") or downloaded from GeologyOntario: [Miscellaneous Release—Data MRD383](#)

Applicable Distribution Fees and Payment Options

Contact the Ministry of Energy, Northern Development and Mines Publication Sales Office regarding the most recent pricing (see "Contact Information" section).

If ordering by mail, fax or E-mail: please call ahead to confirm shipping charge.

The Language in which Data are Distributed: English

CONTACT INFORMATION

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

Ministry of Energy, Northern Development and Mines Publication Sales,
933 Ramsey Lake Road, Sudbury Ontario, CANADA P3E 6B5
Telephone voice business 705 670-5691; Telephone fax 705 670-5770
Toll Free in Canada and United States 1-888-415-9845 x5691
E-mail: pubsales.ndm@ontario.ca

METADATA

Date of this Metadata Description: December 15, 2020