

MRD 337 METADATA

GENERAL INFORMATION

Official Name of the Data Set or Information Holding:

Groundwater Hydrochemistry Data for Multi-Depth Well Sampling in the Early Silurian Carbonates of the Niagara Escarpment Cuesta

Acronyms are Used to Identify the Data Set or Information Holding: MRD337

Describe the Data Set or Information Holding:

Priebe, E.H., Lee, V.L. (authors)

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

This digital data release comprises the hydrochemical data for 4 seasonally targeted groundwater sampling events that were conducted during 2011 and 2012. The sampling points consisted of a network of 12 multi-depth wells located in the Early Silurian carbonates of the Niagara Escarpment cuesta. Each multi-depth monitoring well contains 3 to 5 ports designed for both groundwater sampling and water level monitoring. This data release contains the analyses for 210 groundwater samples, for a total of 16 380 individual chemical measurements. The laboratory analyses include major ions, trace elements, bacteria and nutrients. Field analyses include alkalinity, temperature, pH, reduction–oxidation potential and electrical conductivity. For each of the 12 multi-depth wells and for the entire data set, the hydrochemical data are provided as 13 Microsoft® Excel® 2010 (.xlsx) files; accuracy and precision (quality control) plots (.tif files) for analytical parameters are also provided. A report, in portable document format (.pdf), contains a description of the study area, borehole logs, multi-depth well geometries, sampling methods, and analytical and quality control methods.

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

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

This publication reports on one phase of a multi-phase (5 year study) with the overall objective of mapping groundwater flow zones in the Early Silurian carbonates of the Niagara Escarpment cuesta.

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

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Priebe, E.H. and Lee, V.L. 2016. Groundwater hydrochemistry data for multi-depth well sampling in the Early Silurian carbonates of the Niagara Escarpment cuesta; Ontario Geological Survey, Miscellaneous Release—Data 337.

ISBN 978-1-4606-7753-7 (CD) ISBN 978-1-4606-7752-0 (zip file)

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Select the Level of Privacy for this Metadata Information: Public

Time Coverage: April 27, 2016

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: MGE

Keywords:

Geological Survey

Geology

Ministry of Northern Development and Mines

MNDM

Ontario Geological Survey

OGS

Miscellaneous Release Data

MRD

Hydrogeology

Groundwater

Waterwell

Sampling

Sampling Techniques

Geochemical Geochemistry

Paleozoic Bedrock Geology

Business Theme:

Geological Survey

Geology

GEOGRAPHIC INFORMATION

Selected geographic type: Bounding Box only

North Bounding Latitude: 45° 16'

South Bounding Latitude: 43° 13'

West Bounding Longitude: -81° 43'

East Bounding Longitude: -79° 48'

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: Precise +/- 5 m

Vertical Position Accuracy of Features: 0.06 m

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: Four groundwater sampling events were conducted between July 2011 and June 2012, followed by laboratory analyses

CONTACT INFORMATION

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Date of this Metadata Description/Update: March 30, 2016

Date when Metadata Should be Reviewed: December 31, 2017

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