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Miscellaneous Release—Data 390

Groundwater Hydrochemistry, Water Isotope and Manual Water Level Data for the Early Silurian Carbonates of the Niagara Escarpment Cuesta

by E.H. Priebe¹

¹Earth Resources and Geoscience Mapping Section, Ontario Geological Survey, Sudbury, Ontario.

This publication can be downloaded from

http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=MRD390

This data release comprises the hydrochemical, isotopic and manual water level data for a groundwater sampling event conducted in the Early Silurian carbonates of the Niagara Escarpment cuesta during the summer of 2016, and represents the final phase of a multiphase groundwater mapping project. The data published here—from 69 groundwater samples from 36 stations—were collected in support of an OGS-funded PhD thesis by Priebe (2019). Only data with the best accuracy and precision are published in this release. Accuracy and precision plots and the data used to create them are provided in a supporting document (*.pdf*) and a Microsoft® Excel® for Office 365 (*.xlsx*) file, respectively. The groundwater sampling protocols, sample handling, field measurements and analytical methods used are those of the OGS Ambient Groundwater Geochemistry Program and are described in the supporting document.

Contents

There are 2 files provided in this release, along with this readme file:

MRD390_Support Document.pdf provides background information and context for the groundwater sampling project; a description of data collection and analytical methods; quality control plots for analytical parameters and some field parameters; and references to publications produced as part of this multiphase groundwater mapping project.

All_data_2016.xlsx is a Microsoft® Excel® for Office 365 (*.xlsx*) file containing manual water level, hydrochemistry and isotope data, as well as station and sample details.

References

Priebe, E.H. 2019. Investigating new approaches for mapping groundwater systems in karstic carbonate bedrock: A case study in the Early Silurian formations of the Niagara Escarpment cuesta, southern Ontario, Canada; unpublished PhD thesis, University of Waterloo, Waterloo, Ontario, 153p.