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Hamilton, S.M. 2015. Ambient groundwater geochemistry data for southern Ontario, 2007–2014; Ontario Geological Survey, Miscellaneous Release—Data 283—Revised.

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Miscellaneous Release—Data 283—Revised

Ambient Groundwater Geochemistry Data for Southern Ontario, 2007–2014

by S.M. Hamilton

This publication can be downloaded from

http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=MRD283-REV

This digital data release comprises a revision of data collected in the Ambient Groundwater Geochemistry project, and an update of the original release of Miscellaneous Release—Data 283 in 2011. The project provides a comprehensive analytical characterization of the chemical state of groundwater across all of southern Ontario resulting in coverage of an area of approximately 96 000 km². The previous release included data from the 2007 to 2010 field seasons. This release contains a compilation of geochemical data collected during the course of all 8 field seasons from 2007 to 2014. The data include detailed inorganic chemistry for almost 2300 water samples. Parameters tested include dissolved gases, major ions, trace elements, isotopes of water, and field measurements of alkalinity, temperature, pH, redox potential and electrical conductivity. The release includes a report (*.pdf*) with a brief explanation of the data and quality control methods; precision and accuracy plots (*.jpg*) for all parameters; single-parameter maps (*.tif*) for bedrock wells plotted over bedrock geology; single-parameter maps (*.tif*) for overburden wells plotted over surficial geology; and a Microsoft® Excel® 2010 spreadsheet (*.xlsx*) containing analytical data plus station data that include well depth, type, deepest formation penetrated and other parameters.

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MRD 283-Revised Folder Structure

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  /Overburden_Maps
  /Quality_control_plots
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  Figure_2_Stations.tif
  MRD_283_data(revised_2014).xlsx
  MRD_283_Revised_support document.pdf
MRD283-Rev_metadata
MRD283-Rev_readme
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MRD 283-Revised File/Folder Description

/Root

MRD283-Rev_metadata.pdf and html A document in 2 formats that gives information about the about the publication.

MRD283-Rev_readme.pdf This document.

/data

Bedrock_Maps Folder contains 91 parameter maps for bedrock wells plotted over bedrock geology.

Overburden_Maps Folder contains 91 parameter maps for overburden wells plotted over Quaternary geology.

Quality_control_plots Folder contains 74 precision and accuracy plots for analytical parameters.

Figure_1_Study_area.tif Image shows the geographic extents of the study areas for the years 2007 to 2014, and is accessed by an HTML link in Table 1 of the support document.

Figure_2_Stations.tif Image shows the locations of the wells sampled for the study, and is accessed by an HTML link in Table 1 of the support document.

MRD_283_data(revised_2014).xlsx A single flat-file (Microsoft® Excel® spreadsheet) contains analytical data and station data that includes descriptive fields for the wells.

MRD_283_Revised_support document.pdf This document contains an explanation of the data and quality control methods. A summary table, Table 1, in the support document contains HTML links to the plots for each parameter in the data folders. For these links to work, the integrity of the folder structure and the file locations must be maintained and the links will function properly if the folder in its entirety as presented is copied to the user's computer.

More information about MRD 283-Revised is provided in the file *MRD_283_Revised_support document.pdf*.