Publication information

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Downhole geophysical logs in Quaternary sediments of south Simcoe County, southern Ontario

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System requirements

PC with 486 or greater processor, or Mac® with OS® X v. 10.2.2 or later; Adobe® Reader® v. 6.0 or later; video resolution of 1280 x 1024.

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Contents

The Ontario Geological Survey (OGS) is conducting a three-dimensional (3D) Quaternary sediment mapping project in central Simcoe County as part of their provincial groundwater mapping initiative. The Geological Survey of Canada (GSC) is collaborating in this work through its regional Southern Ontario Groundwater Project. Borehole geophysical logs were acquired in 6 PVC cased boreholes (30 – 140 m) by the GSC to better understand the *in situ* physical and chemical properties of the sediments, and their lateral variability across the study area. Natural gamma and induction logs were acquired to investigate lithological variation within the sediments. Downhole seismic logs were collected using the GSC’s Minivib source to investigate material velocities, and verify the conversion of seismic reflection time sections into depth sections. High-resolution fluid logs were recorded to identify temperature changes within each borehole, and regional groundwater trends across the study area. This Open File report provides preliminary log observations in the context of the regional hydrostratigraphic units. Figures of the log suites and digital log data are provided in appendices.

Directory structure

of\_8251.pdf (includes report and Appendix A)

of\_8251\_Appendix B – Folder contains digital geophysical logs (LAS format)

of\_8251\_readme.rtf

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Availability information

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