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These data accompany:

Preliminary Map P.3763, *Precambrian Geology of the Keezhik Lake Area, Fort Hope Greenstone Belt* and
Preliminary Map P.3764, *Precambrian Geology of the Miminiska Lake Area, Fort Hope Greenstone Belt*.

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Users of OGS products are encouraged to contact those Aboriginal communities whose traditional territories may be located in the mineral exploration area to discuss their project.

Miscellaneous Release—Data 293

**Geochemical and Geological Data from the Keezhik Lake and Miminiska Lake Area,
Fort Hope Greenstone Belt, Northwestern Ontario**

by S. Buse

This publication can be downloaded from

http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=MRD293

This digital release consists of geochemical data, magnetic susceptibility data, geological information and selected field photographs for the Keezhik Lake and Miminiska Lake area in the Fort Hope greenstone belt, which were collected during the 2010 and 2011 field seasons, respectively. This release contains whole-rock chemistry (major element, trace element, rare earth element) and assay data, and magnetic susceptibility data (2 Microsoft[®] Excel[®] 2003 (.xls) files) and 189 photographs (.jpg format files) with descriptions (1 Microsoft[®] Excel[®] 2003 (.xls) file). These data augment published Preliminary Maps P.3763, *Precambrian Geology of the Keezhik Lake Area, Fort Hope Greenstone Belt* and P.3764, *Precambrian Geology of the Miminiska Lake Area, Fort Hope Greenstone Belt*; the marginal notes and the geological legends (as 3 portable document format (.pdf) files) from the 2 Preliminary Maps are also provided. Location data are provided in the Universal Transverse Mercator (UTM) projection and grid system, Zone 16, North American Datum 1983 (NAD83).

1. Geochemistry. This folder contains 1 Microsoft[®] Excel[®] (.xls) file with 4 worksheets providing whole rock, trace element, rare earth element and assay data.

MRD293 FortHopeChem.xls. This file contains 2 worksheets providing assay data for each mapped area and 2 worksheets providing whole-rock chemical data for each mapped area. Samples were processed by the Geoscience Laboratories (Geo Labs), Ontario Geological Survey, Sudbury, Ontario. Sample location information is given in UTM co-ordinates, NAD83, Zone 16.

2. Geology. This folder contains 3 portable document format (.pdf) files.

P3763-P3764 Marginal Notes.pdf provides additional information on the geology of the study area using a version of the marginal notes, with 2 figures and 6 tables, from Preliminary Maps P.3763 and P.3764.

P3763-Keezhik_Legend-Geology.pdf is the geological legend for Ontario Geological Survey (OGS) Preliminary Map P.3763, *Precambrian Geology of the Keezhik Lake Area, Fort Hope Greenstone Belt* (1:50 000 scale, published April 2012). Rock descriptions in the geochemical and photograph descriptions files refer to rock units in the legend.

P3764-Miminiska_Legend-Geology.pdf is the geological legend for Ontario Geological Survey (OGS) Preliminary Map P.3764, *Precambrian Geology of the Miminiska Lake Area, Fort Hope Greenstone Belt* (1:50 000 scale, published April 2012). Rock descriptions in the geochemical and photograph descriptions files refer to rock units in the legend.

3. Magnetic Susceptibility. This folder contains 1 Microsoft® Excel® (.xls) file.

MRD 293 MagSus.xls contains 3 worksheets.

“2010_Keezhik” and “2011_Miminiska” worksheets contain magnetic susceptibility data from the 2 study areas collected during the summers of 2010 and 2011. Measurements were collected using Exploranium® KT-9 and KT-10 magnetic susceptibility meters in 2010 and 2011, respectively. Magnetic susceptibility is defined as the degree to which a substance can be magnetized and, in this case, is expressed as the ratio of the intensity of magnetization (k) to the ratio of the Earth’s magnetic field to the magnetic field induced by the susceptibility meter. The readings (k) are expressed as 10^{-3} times the SI unit for susceptibility and are dimensionless. The minimum value that can be recorded by the meter is 0.01×10^{-3} SI units; the largest value is 999×10^{-3} SI units. Sample location information is given in UTM co-ordinates, NAD83, Zone 16.

“Pick_Lists” worksheet provides additional information about the pick lists in the “Rock Type” field in the other 2 worksheets.

4. Photographs. This folder contains 2 photograph (as .jpg files) folders and 1 Microsoft® Excel® (.xls) file.

MRD 293 FortHopePhotos_locations-descriptions.xls contains 2 worksheets.

“2010-Keezhik_Photos” and “2011-Miminiska_Photos” worksheets provide descriptions and location information for the 2010 Keezhik Lake area photos and the 2011 Miminiska Lake area photos.

The 2 folders, “2010KeezhikLake” and “2011MiminiskaLake”, contain 73 and 116 selected photographs from the 2 study areas, respectively. Photo file names for the .jpg files are based on station location. Station location information is given in UTM co-ordinates, NAD83, Zone 16.

Associated Publications. Four (4) associated publications are also available.

Buse, S. 2011. Preliminary results from the eastern Uchi bedrock geology mapping project in the Miminiska Lake area, Fort Hope greenstone belt, Uchi Subprovince; *in* Summary of Field Work and Other Activities 2011, Ontario Geological Survey, Open File Report 6270, p.13-1 to 13-11.
www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=OFR6270

Buse, S. 2012. Precambrian geology of the Miminiska Lake area, Fort Hope greenstone belt; Ontario Geological Survey, Preliminary Map P.3764, scale 1:50 000.
www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=P3764

Buse, S. and Purdy, C. 2010. Preliminary results from the eastern Uchi bedrock mapping project in the Keezhik Lake area, Fort Hope greenstone belt, Uchi Subprovince; *in* Summary of Field Work and Other Activities 2010, Ontario Geological Survey, Open File Report 6260, p.18-1 to 18-13.
www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=OFR6260

Buse, S. and Purdy, C. 2012. Precambrian geology of the Keezhik Lake area, Fort Hope greenstone belt; Ontario Geological Survey, Preliminary Map P.3763, scale 1:50 000.
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