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These data accompany:

Preliminary Map P.3824, *Precambrian Geology of the Eabamet Lake Area, Fort Hope–Miminiska Greenstone Belt—North Sheet*, scale 1:50 000.

Preliminary Map P.3825, *Precambrian Geology of the Eabamet Lake Area, Fort Hope–Miminiska Greenstone Belt—South Sheet*, scale 1:50 000.

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Miscellaneous Release—Data 372

### **Geological, Geochemical and Geophysical Data Related to the Eabamet Lake Area, Fort Hope–Miminiska Greenstone Belt, Northwestern Ontario**

by B. Azar

This publication can be downloaded from

[http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm\\_dir.asp?type=pub&id=MRD372](http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=MRD372)

This digital data release consists of geochemical data, magnetic susceptibility data, geological information, structural data and selected field photographs for the Fort Hope greenstone belt in the Eabamet Lake area (mapping Project Unit 14-001), collected during the 2015 and 2016 field seasons.

This digital data set includes whole-rock geochemistry (major element, trace element, rare earth element) and assay data, quality control data and field notes. These data are associated with Preliminary Maps P.3824 and P.3825, *Precambrian Geology of the Eabamet Lake Area, Fort Hope–Miminiska Greenstone Belt (North and South sheets*, respectively). The marginal notes and the geological legend (as 2 separate portable document format (.pdf) files) for these Preliminary Maps are also provided, as well as other documents related to the project. Location data are provided in the Universal Transverse Mercator (UTM) projection and grid system, Zone 16, North American Datum 1983 (NAD83). This release consists of 4 Microsoft® Excel® 2016 (.xlsx) files, 147 photographs (.jpg format files), and 6 portable document format (.pdf) files.

## CONTENTS

Details regarding the folder structure and contents of MRD 372 are outlined below.

/Field Notes  
/Geochemistry  
/Geology  
/Magnetic Susceptibility  
/Photographs  
/Publications

### Field Notes

This folder contains 1 Microsoft® Excel® 2016 (.xlsx) file providing all the field notes collected during the 2015 and 2016 field seasons.

*MRD372\_Eabamet Lake\_Rocktype\_Descriptions.xlsx*. This file contains 1 worksheet which contains the field notes taken at every outcrop and location recorded using a Trimble® handheld Global Positioning System (GPS) device. The notes are the original observations taken real-time and may contain typographic errors and incomplete sentences as a result. Some of the interpretations have changed with geochemical information and additional reviews; these changes are not reflected in this document. Observation location information is given in UTM co-ordinates, NAD83, Zone 16.

### Geochemistry

This folder contains 1 Microsoft® Excel® 2016 (.xlsx) file providing all of the geochemical results from the 2015 field season and 1 portable document format (.pdf) describing quality control issues for specific samples.

*MRD372\_Geochemistry\_Eabamet Lake.xlsx*. This file contains 4 worksheets: Worksheet, “Assay” contains assay data for the study area; worksheet, “Whole Rock”, contains whole-rock chemical data for each mapped area; and worksheet “Au, Pd, Pt analyses”, contains only the analyses for precious metals for all samples. The final worksheet “Abbreviations” provides an explanation for the abbreviations and acronyms used in the file. Additional methods that were used in sample preparation are included but are not represented on the other 2 worksheets. 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.

*MRD372\_Summary of Geochemistry Quality Control Issues Eabamet Lake Area.pdf*. This file summarizes the quality control issues found during the analyses of all of the geochemical samples included in this project. The samples discussed in this document are highlighted in yellow in the data file  
*MRD372\_Geochemistry\_Eabamet\_Lake.xlsx*.

## Geology

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

*P3824-P3825\_Eabamet Lake\_Geology Legend\_2018.pdf* provides the geological legend for the associated Preliminary Maps P.3824 and P.3825 (*Precambrian Geology of the Eabamet Lake Area—North and South* sheets). This document shows the rock units and symbols, with their descriptions, that are used to provide the geological information on the maps.

*P3824-P3825\_Eabamet Lake\_Marginal Notes\_2018.pdf* provides the marginal notes contained in the associated Preliminary Maps P.3824 and P.3825 (*Precambrian Geology of the Eabamet Lake Area—North and South* sheets) that offer additional information on the geology of the study area.

## Magnetic Susceptibility

This folder contains 1 Microsoft® Excel® 2016 (.xlsx) file.

*MRD372\_Eabamet Lake\_MagSus.xlsx* contains 1 worksheet. The “Eabamet” worksheet contains magnetic susceptibility data from the study area collected during the summers of 2015 and 2016. Measurements were collected using Exploranium® KT-10 magnetic susceptibility meters. 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  $0.01 \times 10^{-3}$  SI units; the largest value is  $999 \times 10^{-3}$  SI units. Sample location information is given in UTM co-ordinates, NAD83, Zone 16.

## Photographs

This folder contains 1 subfolder with 147 photographs (as .jpg files) and 1 Microsoft® Excel® 2016 (.xlsx) file.

*MRD372\_Photographs\_Eabamet Lake\_Captions.xlsx* contains 1 worksheet. The “Photo\_Captions” worksheet provides descriptions and location information for the 2015 and 2016 Eabamet Lake area photos.

The folder, “Photographs Eabamet Lake” contains 147 selected photographs from the study area. Photo file names for the .jpg files are based on station location and number of photographs taken at that station. Station location information is given in UTM co-ordinates, NAD83, Zone 16.

## Publications

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

*2015\_SoFW\_OFR6313\_Article03\_Azar.pdf* is the summary of field work article written in 2015 following the field season.

*2016\_NWOMMS\_Poster\_Eabamet\_Azar.pdf* is a poster entitled “Precambrian Bedrock Mapping Projects in the Far North” presented at the Ontario Prospectors Association 2016 Northwest Mines and Minerals Symposium in Thunder Bay, Ontario, April 5-6, 2016.

*2016\_NWOMMS\_Presentation\_Eabamet\_Azar.pdf* contains 23 slides from a talk entitled “Geology and Mineral Potential of the Eabamet Lake Area” delivered at the Northwest Mines and Minerals Symposium in Thunder Bay, Ontario on April 6, 2016. The 20 minute presentation highlights the findings and mineral potential of the Eabamet Lake area.

## References

- Azar, B. 2015. Preliminary results from bedrock geology mapping in the Eabamet Lake area, Fort Hope greenstone belt, eastern Uchi Subprovince; *in* Summary of Field Work and Other Activities 2015, Ontario Geological Survey, Open File Report 6313, p.3-1 to 3-11.
- Azar, B. and Rudolph, N. 2018. Precambrian geology of the Eabamet Lake area, Fort Hope–Miminiska greenstone belt—north sheet; Ontario Geological Survey, Preliminary Map P.3824, scale 1:50 000.
- Azar, B. and Rudolph, N. 2018. Precambrian geology of the Eabamet Lake area, Fort Hope–Miminiska greenstone belt—south sheet; Ontario Geological Survey, Preliminary Map P.3825, scale 1:50 000.