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Easton, R.M. 2008. Geological, geochemical and geophysical data from the western Grimsthorpe domain, Grenville Province, Ontario; Ontario Geological Survey, Miscellaneous Release—Data 213.

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These data accompany:

Preliminary Map P.3600, *Precambrian Geology of Western Grimsthorpe Domain, Grenville Province*.

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Miscellaneous Release—Data 213

Geological, Geochemical and Geophysical Data from the Western Grimsthorpe Domain, Grenville Province, Ontario

by R.M. Easton

This publication can be downloaded from

http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=MRD213

This data release contains field photographs, whole-rock chemistry, assay, magnetic susceptibility and scintillometer data collected as part of the western Grimsthorpe domain mapping project, which was conducted between June 2004 and December 2006. Also included are copies of articles for the project published in *Summary of Field Work and Other Activities* from 2004 to 2006, presentations on this project area, as well as the marginal notes and legend for Preliminary Map P.3600, *Precambrian Geology of the Western Grimsthorpe Domain, Grenville Province*. This release consists of 161 photographs (.jpg files), Microsoft® Excel® 2003 (.xls) spreadsheets (6 files) and 15 documents (including articles and presentations) in portable document format (.pdf). Location data are provided in the Universal Transverse Mercator (UTM) projection and grid system, Zone 18, North American Datum 1983 (NAD83). The files are available on 1 CD.

Data are organized into 5 folders, as follows:

1. Geochemistry
2. Geology
3. Geophysics
4. Photographs
5. Presentations

1. Geochemistry. This folder contains 2 Microsoft® Excel® (.xls) files.

MRD 213 Geochemistry.xls consists of 3 worksheets. The worksheets “assay 04” and “assay 06” contains assay data for samples collected from the study area by the author in 2004 and 2006, respectively. The 2006 assay samples were all collected from drill core, as described in the 2006 Summary of Field Work article (*SoFW 6192-15.pdf*). The worksheet “whole rock” contains whole-rock geochemical data from this study acquired from samples collected in 2004 and 2006. All geochemical data collected by the mapping project was acquired by the Geoscience Laboratories, Ministry of Northern Development and Mines, Sudbury. Sample location information in all 3 worksheets is given in UTM co-ordinates, Zone 18, NAD83 datum.

Lydia Chemistry.xls consists of a single worksheet. It is a compendium of geochemical data present in the assessment files in the Tweed Resident Geologist’s Office from samples collected by Lydia Diamond Exploration Company in western Grimsthorpe domain. Sample location information is given in UTM co-ordinates, Zone 18, NAD83 datum.

2. Geology. This folder contains 7 portable document format (.pdf) and 2 Microsoft® Excel® (.xls) files.

Lydia Core 2006.xls are the drill logs for core examined by the author in 2006, as summarized in *SoFW 6192-15.pdf*, with the following worksheets :

▪ BH-11	▪ BH-70	▪ BH-80	▪ BH-85
▪ BH-34	▪ BH-71	▪ BH-81	▪ BH-105
▪ BH-39	▪ BH-74	▪ BH-82	▪ BH-251
▪ BH-64	▪ BH-79	▪ BH-83	▪ BH-252

Lydia drill holes.xls is a summary of all of the drill holes drilled by Lydia Diamond Exploration Company in western Grimsthorpe domain.

Mineral Exploration Summary.pdf is a summary of assessment file work for Grimsthorpe and Tudor townships, which constitute the bulk of the study area, current as of July 30, 2008.

P3600 Legend.pdf is a copy of the legend for Ontario Geological Survey Map P.3600, *Precambrian Geology of Western Grimsthorpe Domain*. Material in the geochemical files and the photograph caption file are cross-referenced to map codes in the legend.

P3600 Marginal Notes.pdf is a copy of the marginal notes for Ontario Geological Survey Map P.3600, and includes additional information on the geology of the study area not presented in the *Summary of Field Work* articles.

SoFW 6145-14.pdf is the *Summary of Field Work* article on the project that appeared in 2004 in Ontario Geological Survey Open File Report 6145.

SoFW 6172-15.pdf is the *Summary of Field Work* article on the project that appeared in 2005 in Ontario Geological Survey Open File Report 6172.

SoFW 6192-15.pdf is the *Summary of Field Work* article on the project that appeared in 2006 in Ontario Geological Survey Open File Report 6192.

SoFW 6213-13.pdf is the *Summary of Field Work* article on the project that appeared in 2007 in Ontario Geological Survey Open File Report 6213.

3. Geophysics. This folder contains 2 Microsoft® Excel® (.xls) files.

MRD 213 Mag Susc Data.xls. Magnetic susceptibility data from the study area collected in 2004 and 2006. Data are in separate worksheets because the 2004 data are from surface outcrops, whereas the 2006 data were collected from drill holes at 10 cm spacing. Measurements were collected using an Explorium® KT-9 magnetic susceptibility meter. 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 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, Zone 18, NAD83 datum.

MRD 213 Scintillometer Data.xls. Scintillometer data are only available for drill hole samples studied in 2006. All data were recorded using an Exploranium® GR-130 MiniSpec gamma-ray spectrometer, serial number 9865, calibrated on March 23, 2005, using an NaI crystal and software version 5V15G. The instrument was stabilized daily, and data were recorded using the assay mode with a 3-minute count time. Quoted accuracy is 0.1% K, 0.4 ppm U, and 0.7 ppm Th for a sample with 2% K, 2 ppm U and 8 ppm Th. Sample location information is given in UTM co-ordinates, Zone 18, NAD83 datum.

4. Photographs. This folder contains 161 JPEG (.jpg) image files and 1 portable document (.pdf) file.

This folder contains 161 field photographs taken in 2004 as part of the mapping project. Photo caption and photo location information (*MRD 213 photo captions.pdf*). Photo file names for the image files are based on sample location, e.g., 04RME_0366_5 is photograph number 5, from station RME-0366 in 2004. Sample location information is given in UTM co-ordinates, Zone 18, NAD83 datum.

5. Presentations Folder. This folder contains 7 portable document (.pdf) files.

One poster and 3 oral presentations, with abstracts for the 3 oral presentations, on the western Grimsthorpe domain mapping project are included in this folder. The presentations summarize information contained in the 2004 and 2005 *Summary of Field Work* articles (see folder "Geology").

- Presented at the Ontario Exploration and Geoscience Symposium in Toronto in December 2004:
OEGS 2004 Easton-1 (abstract).pdf
OEGS 2004 Easton-1 (oral presentation).pdf
OEGS 2004 Easton-2 (poster presentation).pdf
- Presented at the Canadian Institute of Mining and Metallurgy annual meeting in Toronto in April 2005:
CIM April 2005 Easton (abstract).pdf
CIM April 2005 Easton (oral presentation).pdf
- Presented at the Geological Association of Canada–Mineralogical Association of Canada Annual Meeting in Montreal in May 2006:
GAC–MAC May 2006 Easton & Kamo (abstract).pdf
GAC–MAC May 2006 Easton & Kamo (oral presentation).pdf