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Ontario Geological Survey 2015. Ontario airborne geophysical surveys, magnetic and electromagnetic data, grid and profile data (ASCII and Geosoft[®] formats) and vector data, Matachewan–Timmins area—Purchased data; Ontario Geological Survey, Geophysical Data Set 1243.

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These data accompany the following publications (available separately):

Ontario Geological Survey Maps 60 420 to 60 425

Airborne Magnetic and Electromagnetic Surveys, Colour-Filled Contours of the Residual Magnetic Field and Electromagnetic Anomalies, Matachewan–Timmins Area—Purchased Data, scale 1:20 000.

Ontario Geological Survey Maps 60 426 to 60 431

Airborne Magnetic and Electromagnetic Surveys, Shaded Colour Image of the Second Vertical Derivative of the Residual Magnetic Field and Keating Coefficients, Matachewan–Timmins Area—Purchased Data, scale 1:20 000.

Ontario Geological Survey Maps 60 432 to 60 437

Airborne Magnetic and Electromagnetic Surveys, Colour-Filled Contours of the EM Decay Constant and Electromagnetic Anomalies, Matachewan–Timmins Area—Purchased Data, scale 1:20 000.

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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.

Geophysical Data Set 1243

Ontario Airborne Geophysical Surveys, Magnetic and Electromagnetic Data, Grid and Profile Data (ASCII and Geosoft® Formats) and Vector Data, Matachewan–Timmins Area—Purchased Data
by Ontario Geological Survey

This publication can be downloaded from

http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=GDS1243

Geophysical Data Set (GDS) 1243 includes the results of an airborne magnetic and electromagnetic survey, totalling 4694 line-kilometres, flown over an area approximately 297 km², located between Matachewan and Timmins in northern Ontario. The survey was conducted in 2004 by Aeroquest Limited, Aurora, Ontario, for Mustang Minerals Corp., Toronto, Ontario.

As part of an ongoing program to acquire high-quality, high-resolution airborne geophysical data across the Province of Ontario, the Ministry of Northern Development and Mines (MNDM) does, from time to time, issue Requests For Data (RFD) in order to purchase existing proprietary data held by mining companies. Purchase of existing data complements new surveys commissioned by the MNDM.

The purchase of data is attractive because of the low cost of acquisition relative to flying new surveys. The money used to purchase the data can be reinvested in exploration. The data are assessed for quality prior to purchase and are reprocessed to meet the common formats and standards of other Ontario geophysical data. Once reprocessed, these data are then made public.

This geophysical data set includes

- 20 m × 20 m grids (in ASCII (.*gxf*) and Geosoft® (.*grd*) file formats) of magnetic, electromagnetic and derivative data
- airborne magnetic and electromagnetic profile data—both raw and processed—in ASCII (.*xyz*) and Geosoft® (.*gdb*) file formats
- database of Keating correlation coefficient anomalies in ASCII (.*csv*) and Geosoft® (.*gdb*) file formats
- database of electromagnetic anomalies in ASCII (.*csv*) and Geosoft® (.*gdb*) file formats
- GeoTIFF (.*tif*) images of magnetic and electromagnetic grids
- vector (.*dxf*) files of flight path, Keating anomalies, electromagnetic anomalies, contours of the residual magnetic field and decay constant
- the survey report and supporting documentation in portable document format (.*pdf*)

Survey Parameters:

Survey type: magnetic and electromagnetic

Date flown: April 24 to May 12, 2004

Survey conducted by: Aeroquest Limited, Aurora, Ontario

Survey conducted for: Mustang Minerals Corp., Toronto, Ontario

Survey size: 4694 line-kilometres

Survey area: 297 km²

Flight-line spacing: 50 m and 100 m

Control-line spacing: 1200 m

Nominal aircraft terrain clearance: 70 m

Magnetic survey type: total field

Magnetic sampling interval: 10 readings per second

EM survey type: Aeroquest AeroTEM™

EM domain: time domain

EM height: 30 m

VLF–EM: none

Gamma-ray survey: none

These data accompany geophysical Maps 60420 to 60437, which are available separately from the digital data set.