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Ontario Geological Survey 2021. Ontario airborne geophysical surveys, magnetic and gravimetric data, grid and profile data (ASCII and Geosoft® formats) and vector data, Mozhabong Lake area; Ontario Geological Survey, Geophysical Data Set 1251.

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Ontario Geological Survey Maps 60 516 to 60 520

Airborne Magnetic and Gravimetric Surveys, Colour-Filled Contours of the Residual Magnetic Field, Mozhabong Lake Area, scale 1:20 000.

Ontario Geological Survey Maps 60 521 to 60 525

Airborne Magnetic and Gravimetric Surveys, Shaded Colour Image of the Second Vertical Derivative of the Residual Magnetic Field and Keating Correlation Coefficients, Mozhabong Lake Area, scale 1:20 000.

Ontario Geological Survey Maps 60 526 to 60 530

Airborne Magnetic and Gravimetric Surveys, Colour-Filled Contours of the Terrain-Corrected Bouguer Gravity, Mozhabong Lake Area, scale 1:20 000.

Ontario Geological Survey Maps 60 531 to 60 535

Airborne Magnetic and Gravimetric Surveys, Colour-Filled Contours of the First Vertical Derivative of the Terrain-Corrected Bouguer Gravity, Mozhabong Lake Area, scale 1:20 000.

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Geophysical Data Set 1251

Ontario Airborne Geophysical Surveys, Magnetic and Gravimetric Data, Grid and Profile Data (ASCII and Geosoft® Formats) and Vector Data, Mozhabong Lake Area

by Ontario Geological Survey

This publication can be downloaded from

http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=GDS1251

Geophysical Data Set (GDS) 1251 includes the results of an airborne magnetic and gravity survey, totalling 10 057 line-kilometres, flown over the Mozhabong Lake area of north-central Ontario, approximately 50 km north-northeast of the community of Elliot Lake, Ontario. The survey covered an area of 974 km². The survey was conducted in 2016 to 2017 by Sander Geophysics Ltd., Ottawa, Ontario, for the Nuclear Waste Management Organization, 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, Mines, Natural Resources and Forestry does, from time to time, acquire existing proprietary data. The geophysical data that comprise this survey were generously donated by Nuclear Waste Management Organization (NWMO). The survey was flown for NWMO under the original name of “Elliot Lake and Blind River Survey Area” or “North of Huron Survey”.

This geophysical data set includes

- 20 m × 20 m grids and GeoTIFF images of the total (residual) magnetic field data, the second vertical derivative of the residual magnetic field data, Bouguer gravimetric data and first vertical derivative of the terrain-corrected Bouguer gravimetric data
- airborne magnetic and gravimetric profile data—both raw and processed—in ASCII (.xyz) and Geosoft® (.gdb) file formats
- grids (in ASCII (.gxf) and Geosoft® (.grd) file formats) of the total (residual) magnetic field data, the second vertical derivative of the total (residual) magnetic field data, terrain-corrected Bouguer gravimetric data and first vertical derivative of the terrain-corrected Bouguer gravimetric data
- database of Keating correlation coefficient anomalies in ASCII (.csv) and Geosoft® (.gdb) file formats
- database of magnetic profile data in ASCII (.csv) and Geosoft® (.gdb) file formats
- database of gravimetric profile data in ASCII (.csv) and Geosoft® (.gdb) file formats
- vector (.dxf) files of flight path, Keating correlation coefficient anomalies, contours of the total (residual) magnetic intensity, the Bouguer gravity contours and the first vertical derivative of the terrain-corrected Bouguer gravity contours
- survey report in portable document format (.pdf)

Survey Parameters

Survey type:	magnetic and gravity
Dates flown:	April 27, 2016 to March 2, 2017
Survey conducted by:	Sander Geophysics Ltd., Ottawa, Ontario
Survey conducted for:	Nuclear Waste Management Organization, Toronto, Ontario
Survey size:	10 057 line-kilometres
Survey area:	974 km ²
Traverse-line orientation:	north-south
Traverse flight-line spacing:	100 m
Control-line orientation:	east-west
Control-line spacing:	500 m
Nominal aircraft terrain clearance:	70 m
Magnetic survey type:	single sensor
Magnetometer type:	cesium split beam
Magnetometer sensor location:	tail stinger
Magnetic sampling interval:	10 readings per second
EM survey type:	N/A
EM domain:	N/A
EM height:	N/A
VLF-EM:	none
Gamma-ray survey:	none
Gravity survey:	vertical component
Gravimeter type:	Sander Geophysics Ltd. AIRGrav
Gravity sampling interval:	10 readings per second

These data accompany geophysical Maps 60 516 to 60 535, which are available separately from the digital data set.