

## GDS 1243 Metadata

### GENERAL INFORMATION

**Official Name of the Data Set or Information Holding:** Ontario Airborne Geophysical Surveys, Magnetic and Electromagnetic Data, Grid and Profile Data (ASCII and Geosoft® formats) and Vector Data, Matachewan–Timmins Area—Purchased Data

**Acronyms are Used to Identify the Data Set or Information Holding:** GDS1243

**Describe the Data Set or Information Holding:**

Ontario Geological Survey (author)

This publication can be downloaded from GeologyOntario: see Distribution Information section.

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 square kilometres, 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.

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*).

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

#### **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 km<sup>2</sup>

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

Additional information and metadata are found within a readme file provided with the product.

**The Intended Use and Purpose for Collecting the Data Set or Information Holding:** 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.

The objective of this product is to collect and disseminate geoscience information for Ontario.

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**Describe any Legislated or Legal Authority for Collecting the Data Set:** N/A

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**Time Coverage Comments:** Date of Publication.

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ONTARIO GEOLOGICAL SURVEY

GRAVITY

GROUND GRAVITY

AEROMAGNETIC

AIRBORNE EM

AIRBORNE EM AND MAG (TOTAL FIELD)

AIRBORNE MAG (RESIDUAL)

AIRBORNE MAG (TOTAL)

GEOPHYSICAL

**Business Theme:**  
GEOLOGICAL SURVEY  
GEOLOGY

## GEOGRAPHIC INFORMATION

**Selected geographic type:** Bounding Box only

North Bounding Latitude: 48° 23'  
South Bounding Latitude: 47° 51'  
West Bounding Longitude: -81° 21'  
East Bounding Longitude: -80° 43'

**Geographic Completeness:** irregularly shaped study area - completeness not available

## MAPPING INFORMATION

**Grid Coordinate System Used:** Universal Transverse Mercator  
**Map Projection:** Transverse Mercator  
**Horizontal Geodetic Datum:** NAD83  
**Vertical Datum:** Not Applicable  
**Horizontal Position Accuracy of Features:** +/- 10 m  
**Vertical Position Accuracy of Features:** Not Applicable

## DATA SOURCE INFORMATION

**Data Source Type:** Includes Bibliographic Information  
**Describe for the Source Data Contribution:** Product includes references to other sources of information

**Data Source Type:** Direct Field Collection  
**Source Data Set Description:** Data acquisition and data compilation by Aeroquest Ltd., Aurora, Ontario  
**Time Period:** survey conducted from April 24 to May 12, 2004

**Data Source Type:** Digital Map File  
**Source Contribution:** Base map information derived from the Land Information Ontario Data Warehouse, Land Information Ontario, Ministry of Natural Resources and Forestry, scale 1:50 000.  
**Name of Source Data Set:** Natural Resources and Values Information System  
**Acronym of Source Data Set:** NRVIS  
**Source Data Set Description:** NRVIS is a GIS-based system for managing the storage of the Ministry of Natural Resources and Forestry (MNRF) digital land-related information in a standardized manner.  
**Organization that Created Source Data Set:** Ministry of Natural Resources and Forestry (Ontario)

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