

# **MRD 310 METADATA DETAIL PAGE**

## **GENERAL INFORMATION**

**Official Name of the Data Set or Information Holding:** Mineralogical Analyses of Ijolites and Related Rocks, Mesoproterozoic Prairie Lake Carbonatite Complex, Northwestern Ontario

**Acronyms are Used to Identify the Data Set or Information Holding:** MRD310

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

Zurevinski, S.E., Crabtree, D.C. (authors)

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

This data release comprises the data set of electron microprobe analyses of garnet, clinopyroxene, nepheline, magnetite, wollastonite and biotite from a variety of ijolites and related rocks from the Prairie Lake Carbonatite Complex. The Prairie Lake Carbonatite Complex (Mineral Deposit Inventory number MDI42E02SE00003) is located approximately 45 km northwest of Marathon, Ontario. The complex is part of a Mesoproterozoic Midcontinent Rift-related alkalic rock-carbonatite petrologic province north of Lake Superior, associated with the northern extension of the Trans-Superior Tectonic Zone. The Prairie Lake Carbonatite Complex, approximately 8.8 km<sup>2</sup> in size, comprises carbonatite and carbonate-rich intrusive rocks along its periphery and ijolite-melteigite-urtite series rocks within its core. Orbicular ijolite occurs in bands or as dikes within medium-grained ijolite (UTM co-ordinates approximately 521300E 5431400N, NAD83, Zone 16). This is the only known orbicular ijolite occurrence worldwide. This unique rock may provide clues about crystallochemical reactions that occurred during the later stages of emplacement and crystallization.

The collection and analysis of these samples were part of a study of the Prairie Lake Carbonatite Complex, which was published as Ontario Geological Survey Study 46 by R.P. Sage, but the orbicular ijolite data have never been published. All specimens have been archived at the Royal Ontario Museum (ROM) in Toronto (see Table 1 in the MRD Tables Ijolite final.xlsx Microsoft® Excel® file for sample identification numbers).

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:**

The Prairie Lake Carbonatite Complex study was part of a larger study of carbonatite complexes and alkalic intrusions conducted from 1974 to 1978 by the Ontario Geological Survey and published from 1985 to 1988 as Studies 30 to 53 by R.P. Sage, but the orbicular ijolite data were not published. Since this is the only orbicular ijolite occurrence known in the world, all specimens have been archived at the Royal Ontario Museum

(ROM) in Toronto, Ontario.

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

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Zurevinski, S.E. and Crabtree, D.C. 2013. Mineralogical analyses of ijolites and related rocks, Mesoproterozoic Prairie Lake Carbonatite Complex, northwestern Ontario; Ontario Geological Survey, Miscellaneous Release—Data 310.

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

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**Time Coverage:** Wednesday August 7, 2013  
**Time Coverage Comments:** Date of Publication.  
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**Enter or Select the Frequency with which Changes or Additions are Made to the Data Set:** None Planned  
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MNDM  
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ONTARIO GEOLOGICAL SURVEY  
CARBONATITE  
ELECTRON MICROPROBE  
LITHOGEOCHEMISTRY  
MESOPROTEROZOIC

**Business Theme:**  
GEOLOGICAL SURVEY  
GEOLOGY

### **GEOGRAPHIC INFORMATION**

**Selected geographic type:** Bounding Box only

North Bounding Latitude: 49° 02'  
South Bounding Latitude: 49° 02'  
West Bounding Longitude: -86° 43'  
East Bounding Longitude: -86° 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:	+/- 250 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

**Title:** Geology of Carbonatite-Alkalic Rock Complexes in Ontario: Prairie Lake Carbonatite Complex, District of Thunder Bay

**Source Contribution:** samples; see "Description" for further information

**Time Period:** samples collected from 1974 to 1978

**Name of Source Data Set:** Study 46

**Acronym of Source Data Set:** S046

**Source Data Contribution Description:** Product includes references to other sources of information

**Organization that Created Source Data Set:** Ontario Geological Survey

## CONTACT

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**METADATA**

**Date of this Metadata Description/Update:** July11, 2013

**Date when Metadata Should be Reviewed:** December 31, 2016

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