

# MISCELLANEOUS RELEASE—DATA (MRD) 384 METADATA

## GENERAL INFORMATION

### Title

Geochemical Data from Ultramafic Rocks in the Lake of the Woods Greenstone Belt, Northwestern Ontario

### Alternate Title

MRD384

### Author(s)

Boucher, C. and Hollings, P.

### Date of Publication

August 25, 2020

### Abstract

This digital data release includes geochemical data for 109 bedrock samples collected as part of the Terrace Bay pluton mapping project (Project NW-16-003) in the Lake of the Woods greenstone belt (Project NW-17-003) near Kenora. Sampling targeted ultramafic volcanic rocks, specifically komatiites, but analyzed samples also consist of intermediate to mafic volcanic rocks and sparse mafic intrusive rocks. The sampling project was supported by an Ontario Geological Survey–Lakehead University Mapping School Agreement; and these data are part of an unpublished Master of Science (MSc) thesis (2019) by the senior author. Analytical support was provided by the Ontario Geological Survey. Analytical methods are described in detail in Geoscience Laboratories (Geo Labs) brochures included on this release. This release comprises 1 Microsoft® Excel® for Office 365 (.xlsx) workbook file and 2 documents in portable document format (.pdf).

Additional information can be found within a readme file provided with the product.

### Purpose or Objective

The rock samples analyzed herein were collected as part of the senior author's MSc thesis (2017–2019) at Lakehead University, Thunder Bay, Ontario, titled "Geology and geochemistry of ultramafic rocks in the Lake of the Woods greenstone belt". The thesis investigated the geodynamic processes that dominated the Superior Province at *circa* 2.7 Ga and consequent comparison to modern-day processes using a combination of geochemical and isotopic analyses of mafic to ultramafic volcanic rocks within the Lake of the Woods greenstone belt of the western Wabigoon terrane. The Ontario Geological Survey funded all whole-rock geochemical analyses reported herein.

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

### Keywords

Geological Survey

Geology

Ministry of Energy, Northern Development and Mines

ENDM

Ministry of Northern Development and Mines

MNDM

Ontario Geological Survey

OGS  
Miscellaneous Release—Data  
MRD  
Archean Bedrock Geology  
Superior Province (Geological)  
Ultramafic  
Volcanic  
Geochemistry, General  
Major Elements  
Trace Elements

**Business Themes**

Geological Survey  
Geology

**GEOGRAPHIC INFORMATION**

**Geographic bounding box (decimal degrees)**

<b>North bounding latitude:</b>	49.5124°
<b>West bounding longitude:</b>	-94.8406°
<b>East bounding longitude:</b>	-94.4113°
<b>South bounding latitude:</b>	49.3272°

**Description of Completeness:** irregularly shaped study area - completeness not available

**MAPPING INFORMATION:**

<b>Grid Coordinate System Used:</b>	Universal Transverse Mercator
<b>Map Projection:</b>	Transverse Mercator
<b>Horizontal Geodetic Datum:</b>	NAD83
<b>Vertical Datum:</b>	Not Applicable
<b>Horizontal Position Accuracy of Features:</b>	Precise ±5 m
<b>Vertical Position Accuracy of Features:</b>	Not Applicable

**DATA SOURCE INFORMATION**

**Data Source Type and Description**

Includes Bibliographic Information: Product includes references to other sources of information

**Data Source Type and Description**

Direct Field Collection: Field work conducted in August 2017, and in August 2018.

**Current Status of the Data:** Complete

**Frequency of Changes or Additions to be made to the Data:** Not Planned

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Boucher, C. and Hollings, P. 2020. Geochemical data from ultramafic rocks in the Lake of the Woods greenstone belt, northwestern Ontario; Ontario Geological Survey, Miscellaneous Release—Data 384.

ISBN 978-1-4868-4647-4 (CD) ISBN 978-1-4868-4648-1 (zip file)

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**The Language in which Data are Distributed:** English

## **CONTACT INFORMATION**

**(GENERAL CONTACT; DISTRIBUTOR / PUBLISHER CONTACT; METADATA CUSTODIAN / CONTACT; AUTHOR - ORIGINATOR / DATA SET CUSTODIAN)**

Ministry of Energy, Northern Development and Mines Publication Sales,  
933 Ramsey Lake Road, Sudbury Ontario, CANADA P3E 6B5  
Telephone voice business 705 670-5691; Telephone fax 705 670-5770  
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## **METADATA**

**Date of this Metadata Description:** August 25, 2020