

## THESE TERMS GOVERN YOUR USE OF THIS DOCUMENT

***Your use of this electronic information product (“EIP”), and the digital data files contained on it (the “Content”), is governed by the terms set out on this page (“Terms of Use”). By opening the EIP and viewing the Content , you (the “User”) have accepted, and have agreed to be bound by, the Terms of Use.***

**EIP and Content:** This EIP and Content is offered by the Province of Ontario’s *Ministry of Northern Development and Mines* (MNDM) as a public service, on an “as-is” basis. Recommendations and statements of opinions expressed are those of the author or authors and are not to be construed as statement of government policy. You are solely responsible for your use of the EIP and its Content. You should not rely on the Content for legal advice nor as authoritative in your particular circumstances. Users should verify the accuracy and applicability of any Content before acting on it. MNDM does not guarantee, or make any warranty express or implied, that the Content is current, accurate, complete or reliable or that the EIP is free from viruses or other harmful components. MNDM is not responsible for any damage however caused, which results, directly or indirectly, from your use of the EIP or the Content. MNDM assumes no legal liability or responsibility for the EIP or the Content whatsoever.

**Links to Other Web Sites:** This EIP or the Content may contain links, to Web sites that are not operated by MNDM. Linked Web sites may not be available in French. MNDM neither endorses nor assumes any responsibility for the safety, accuracy or availability of linked Web sites or the information contained on them. The linked Web sites, their operation and content are the responsibility of the person or entity for which they were created or maintained (the “Owner”). Both your use of a linked Web site, and your right to use or reproduce information or materials from a linked Web site, are subject to the terms of use governing that particular Web site. Any comments or inquiries regarding a linked Web site must be directed to its Owner.

**Copyright:** Canadian and international intellectual property laws protect the Content. Unless otherwise indicated, copyright is held by the Queen’s Printer for Ontario.

It is recommended that reference to the Content be made in the following form:

Hamilton, S.M. and Fortescue, J.A.C. 2007. Lake sediment geochemical survey of the Cow River area, Batchewana greenstone belt; Ontario Geological Survey, Miscellaneous Release—Data – Revised.

**Use and Reproduction of Content:** The EIP and the Content may be used and reproduced only in accordance with applicable intellectual property laws. *Non-commercial* use of unsubstantial excerpts of the Content is permitted provided that appropriate credit is given and Crown copyright is acknowledged. Any substantial reproduction of the Content or any *commercial* use of all or part of the Content is prohibited without the prior written permission of MNDM. Substantial reproduction includes the reproduction of any illustration or figure, such as, but not limited to graphs, charts and maps. Commercial use includes commercial distribution of the Content, the reproduction of multiple copies of the Content for any purpose whether or not commercial, use of the Content in commercial publications, and the creation of value-added products using the Content.

### Contact:

FOR FURTHER INFORMATION ON	PLEASE CONTACT:	BY TELEPHONE:	BY E-MAIL:
<b>The Reproduction of the EIP or Content</b>	MNDM Publication Services	Local: (705) 670-5691 Toll-Free: 1-888-415-9845, ext. 5691 (inside Canada, United States)	<a href="mailto:Pubsales.ndm@ontario.ca">Pubsales.ndm@ontario.ca</a>
<b>The Purchase of MNDM Publications</b>	MNDM Publication Sales	Local: (705) 670-5691 Toll-Free: 1-888-415-9845, ext. 5691 (inside Canada, United States)	<a href="mailto:Pubsales.ndm@ontario.ca">Pubsales.ndm@ontario.ca</a>
<b>Crown Copyright</b>	Queen’s Printer	Local: (416) 326-2678 Toll-Free: 1-800-668-9938 (inside Canada, United States)	<a href="mailto:Copyright@gov.on.ca">Copyright@gov.on.ca</a>

These data accompany:

Open File Report 5917, *The Percy Lake Zinc-Cadmium-Copper Anomaly: Preliminary Results of the Cow River Geochemical Mapping Project, Batchewana Greenstone Belt.*

#### Publication Sales

Ministry of Northern Development and Mines

933 Ramsey Lake Rd., Level A3

Sudbury, Ontario P3E 6B5

Tel: 1-888-415-9845, ext. 5691 (toll-free inside Canada and the United States)

Tel: (705) 670-5691 (local calls)

Fax: (705) 670-5770

---

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.

---

Miscellaneous Release—Data 9 – Revised

### **Lake Sediment Geochemical Survey of the Cow River Area, Batchewana Greenstone Belt**

by S.M. Hamilton and J.A.C. Fortescue

This publication can be downloaded from

[http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm\\_dir.asp?type=pub&id=MRD009-REV](http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=MRD009-REV)

The results of this study, previously released as Open File Report 5917 and MRD 9, highlighted several significant anomalies of zinc, cadmium, copper and lead. The area around the Percy Lake Zn-Cd-Pb lake sediment anomaly was resampled at a higher density to further refine the metal anomaly in lake sediments. The previously released data have been supplemented with these new analyses and replaces the data previously released on MRD 9. The data include sample site codes, Universal Transverse Mercator (UTM) co-ordinates (provided in North American Datum 1927 (NAD27), Zone 17), field data, loss-on-ignition analyses, geochemical analyses and quality-control data. Data are available in Microsoft® Excel (.xls) file format on 1 CD-ROM.

#### **CONTENTS**

“COWRIVER.xls”, converted from the original file formats (.wkl, .txt), contains sample numbers, location co-ordinates, sample type (i.e., pre, post or mixed ambrosia), secchi depth, water depth, water pH, limited water chemistry (3 parameters), loss-on-ignition (LOI) (for sediments), and a 40-element analysis for lake sediment samples. Simple statistics for each sediment analyses are listed below the data set.

“COWSTAND.xls”, converted from the original file formats (.wkl, .txt), contains analytical results for the 6 geochemical standards sequenced with the lake sediment samples. CHA-1 and CHA-2 are Ontario Geological Survey (OGS) internal standards prepared in the field as part of the Cow River project. LKSD-1 to LKSD-4 are lake sediment reference standards prepared by CANMET.

These files contain a portion of the database upon which Open File Report 5917 was based:

Hamilton, S.M., Fortescue, J.A.C. and Hardy, A.S. 1995. The Percy Lake zinc-cadmium-copper anomaly: Preliminary results of the Cow River geochemical mapping project, Batchewana greenstone belt; Ontario Geological Survey, Open File Report 5917, 35p.

In 1996, the area around Percy Lake was resampled for lake sediments and waters to confirm and delineate the Percy Lake Zn-Cd-Pb lake sediment anomaly outlined by the original sampling and described in OFR 5917. The new data confirmed presence of the anomaly. The slightly higher density of the resampling indicated a slightly larger anomaly than had originally been identified.

The file “percy\_sed\_resample.xls” contains data for the 56 resampled lake sediments; the file “percy\_wat\_resample.xls” contains data for 57 resampled lake waters.

The files “mh-sedqc.xls” and “mh-watqc.xls” contain quality-control duplicates and standards for the sediment and water data, respectively. These are identical to the quality-control data released as part of Miscellaneous Release—Data (MRD) 31, the Montreal River Headwaters Project, because the Percy Lake resampling was carried out as an addendum to that project and their samples were analyzed together.

Sample locations are provided as Universal Transverse Mercator (UTM) co-ordinates using in North American Datum 1927 (NAD27), Zone 17.