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Miscellaneous Release—Data 325

Lake Sediment and Water Geochemical Data from the Current Lake Area, Northwestern Ontario

by K.M. Dell and R.D. Dyer

This publication can be downloaded from

http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=MRD325

This digital release provides deep and shallow lake sediment geochemical data, lake water geochemical data and lake water quality (limnological) data, including quality-control data, collected from a survey of 234 sites in the Current Lake area. This digital product contains the complete geochemical data set for the Current Lake survey area and is released in conjunction with Open File Report 6311 (available separately), which includes a subset of the geochemical data set, data interpretation and discussion of the data. Deep and shallow lake sediment and water samples were analyzed by instrumental neutron activation analysis (INAA, for deep sediment only), inductively coupled plasma optical emission spectroscopy (ICP–OES), inductively coupled plasma mass spectrometry (ICP–MS) and ion chromatography (IC, for water only) for more than 50 elements. All location information is presented as Universal Transverse Mercator (UTM) co-ordinates using North American Datum 1983 (NAD83) in Zone 16. Data are available as 17 Microsoft® Excel® 2010 (.xlsx) format files.

Data are organized into 4 folders:

1. Deep
2. Shallow
3. Water
4. Tables and Appendix

- 1. Deep.** This folder contains 3 Microsoft® Excel® 2010 (.xlsx) workbook files, each containing 1 worksheet, providing information and data about deep lake sediment samples collected during August 2012.
 - MRD325_Deep_Sed_ICP_INAA_Data.xlsx* provides sample site numbers and locations (as UTM co-ordinates in NAD83, Zone 16), lake depth, and ICP–MS, ICP–OES, INAA and loss-on-ignition (LOI) analytical data for deep lake sediment samples.
 - MRD325_Deep_Sed_ICP_INAA_QC_CRMs.xlsx* provides ICP–MS, ICP–OES, INAA and loss-on-ignition (LOI) analytical data for certified lake sediment reference standard LKSD-1 and for OGS bulk lake sediment standard RAFT-1, as added to the deep lake sediment sample sequence.
 - MRD325_Deep_Sed_ICP_INAA_QC_Dups.xlsx* provides ICP–MS, ICP–OES, INAA and loss-on-ignition (LOI) analytical data for deep lake sediment analytical pulp duplicate pairs.
- 2. Shallow.** This folder contains 3 Microsoft® Excel® 2010 (.xlsx) workbook files, each containing 1 worksheet, providing information and data about shallow lake sediment samples collected during August 2012.
 - MRD325_Shallow_Sed_ICP_Data.xlsx* provides sample site numbers and locations (as UTM co-ordinates in NAD83, Zone 16), lake depth, and ICP–MS, ICP–OES, INAA and loss-on-ignition (LOI) analytical data for shallow lake sediment samples.
 - MRD325_Shallow_Sed_ICP_QC_CRMs.xlsx* provides ICP–MS, ICP–OES, INAA and loss-on-ignition (LOI) analytical data for certified lake sediment reference standard LKSD-1, as added to the shallow lake sediment sample sequence.
 - MRD325_Shallow_Sed_ICP_QC_Dups.xlsx* provides ICP–MS, ICP–OES, INAA and loss-on-ignition (LOI) analytical data for shallow lake sediment analytical pulp duplicate pairs.
- 3. Water.** This folder contains 7 Microsoft® Excel® 2010 (.xlsx) workbook files, each containing 1 worksheet, providing information and data about lake water samples collected during August 2012.
 - MRD325_Water_YSI_Data.xlsx* provides sample site numbers and locations (as UTM co-ordinates in NAD83, Zone 16) and lake depth, as well as limnological data, collected using a YSI multiparameter water quality sonde, such as water temperature, pH and specific (electrical) conductivity.
 - MRD325_Water_ICP_IC_Data.xlsx* provides sample site numbers and locations (as UTM co-ordinates in NAD83, Zone 16), lake depth, and ICP–MS, ICP–OES and ion chromatographic (IC) analytical data, including major, minor and trace elements, for lake water samples.
 - MRD325_Water_ICP_QC_Blanks.xlsx* provides ICP–MS and ICP–OES analytical data for unfiltered and filtered (acidified and non-acidified) distilled water blanks, as added to the lake water sample sequence.
 - MRD325_Water_ICP_QC_CRMs.xlsx* provides ICP–MS and ICP–OES analytical data for lake water reference material SLRS-5, as added to the lake water sample sequence.
 - MRD325_Water_ICP_QC_Dups.xlsx* provides ICP–MS and ICP–OES analytical data for lake water analytical duplicate pairs.
 - MRD325_Water_IC_QC_Blanks.xlsx* provides ion chromatographic (IC) analytical data for unfiltered distilled water blanks, as added to the lake water sample sequence.
 - MRD325_Water_IC_QC_Dups.xlsx* provides ion chromatographic (IC) analytical data for lake water analytical duplicate pairs.
- 4. Tables and Appendix.** This folder contains 4 Microsoft® Excel® 2010 (.xlsx) workbook files, which contain data or information presented in tables and an appendix in Open File Report (OFR) 6311.
 - OFR6311_Table1.xlsx* consists of 1 worksheet, which provides a summary of the Current Lake area deep lake sediment data, including a summary of elements analyzed by ICP and INAA, and quality-control data, including estimates of precision,
 - OFR6311_Table2.xlsx* consists of 1 worksheet, which provides a summary of the Current Lake area shallow lake sediment data, including a summary of elements analyzed by ICP and quality-control data, including estimates of precision.

OFR6311_Table3.xlsx consists of 1 worksheet, which provides a summary of the Current Lake area lake water data, including summary of elements analyzed by ICP and ion chromatography (IC) and quality control data, including estimates of precision.

OFR6311_Appendix3.xlsx consists of 1 worksheet, which provides the locations of, and selected analytical results for, 234 deep lake sediment samples.