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Burke, H.E. and Dyer, R.D. 2014. Lake sediment and water geochemical data from the Rex–Werner–Separation lakes area, northwestern Ontario; Ontario Geological Survey, Miscellaneous Release—Data 314

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These data accompany:

Open File Report 6298, *Lake Sediment and Water Geochemical Data from the Rex–Werner–Separation Lakes Area, Northwestern Ontario*.

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Miscellaneous Release—Data 314

Lake Sediment and Water Geochemical Data from the Rex–Werner–Separation Lakes Area, Northwestern Ontario

by

H.E. Burke and R.D. Dyer

This publication can be downloaded from

http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=MRD314

Deep and shallow lake sediment and water chemistry and related quality assurance and quality control data are released in conjunction with Open File Report 6298. Fieldwork in the survey area, located north of the village of Minaki approximately 55 km northwest of Kenora in northwestern Ontario, was completed during the summer of 2010. Deep and shallow lake sediment and water samples were collected from most of the 1721 sites visited and 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. This digital product contains the complete geochemical data set for the Rex–Werner–Separation lakes survey area and is released separately from the report, Open File Report 6298, which includes a subset of the geochemical data set, preliminary data interpretation and discussion of the data. The data are available as Microsoft® Excel® 2010 (.xlsx) format files.

CONTENTS

The data are organized into 4 folders and 17 files (readme, metadata and 15 data files)

\Root directory

readme.pdf - this file

metadata.pdf - information about this digital data set

\Deep

Deep_Sed_Data.xlsx - Deep lake sediment geochemical data, contains site numbers, UTM co-ordinates (NAD 83 Zone 15), lake depth, ICP-MS, ICP-OES and INAA analytical data and loss-on-ignition (LOI).

Deep_Sed_QC_CRMs.xlsx - Geochemical data for certified lake sediment reference standards LKSD-1 and LKSD-4 and for OGS bulk lake sediment standard DILL-1 inserted into the deep lake sediment sample sequence. File contains ICP-MS, ICP-OES and INAA analytical data and loss-on-ignition (LOI).

Deep_Sed_QC_Dups.xlsx - Geochemical data for deep lake sediment analytical pulp duplicate pairs. File contains ICP-MS, ICP-OES and INAA analytical data and loss-on-ignition (LOI).

\Shallow

Shallow_Sed_Data.xlsx - Shallow lake sediment geochemical data, contains site numbers, UTM co-ordinates (NAD 83 Zone 15), lake depth, ICP-MS and ICP-OES analytical data and loss-on-ignition (LOI).

Shallow_Sed_QC_CRMs.xlsx - Geochemical data for certified lake sediment reference standards LKSD-1 and LKSD-4 inserted into the shallow lake sediment sample sequence. File contains ICP-MS and ICP-OES analytical data and loss-on-ignition (LOI).

Shallow_Sed_QC_Dups.xlsx - Geochemical data for shallow lake sediment analytical pulp duplicate pairs. File contains ICP-MS and ICP-OES analytical data and loss-on-ignition (LOI).

\Tables

OFR6298_Appendix_3.xlsx - Appendix 3 from OFR 6298 contains site numbers, UTM co-ordinates, lake depths, loss-on-ignition (LOI) and selected metal element analytical data. Co-ordinates are presented in NAD83 Zone 15.

OFR6298_Table_1.xlsx - Table 1 from OFR 6298 contains a summary of the results of elements analyzed in deep lake sediment, including quality control data and estimates of laboratory analytical precision.

OFR6298_Table_2.xlsx - Table 2 from OFR 6298 contains a summary of the results of elements analyzed in shallow lake sediment, including quality control data and estimates of laboratory analytical precision.

OFR6298_Table_3.xlsx - Table 3 from OFR 6298 contains a summary of the results of elements analyzed in lake water, including quality control data and estimates of laboratory analytical precision.

\Water

Site_Obs_YSI_Data.xlsx - Lake water limnological data collected using a YSI multiparameter water quality sonde and site observations from notes recorded in the field. This file includes sample site numbers, UTM co-ordinates (NAD 83 Zone 15), water temperature, pH and electrical conductivity as well as sediment descriptions including colour and texture and lake shoreline features.

Water_Data.xlsx - Lake water ICP-MS, ICP-OES and IC analytical data. This file contains site numbers, UTM co-ordinates (NAD 83 Zone 15) and analytical data including major, minor and trace elements.

Water_ICP_QC_Blanks.xlsx - Geochemical data for distilled water blanks and Baker UltraPure™ Water blanks inserted into the lake water sample sequence. File contains ICP-MS and ICP-OES analytical data.

Water_ICP_QC_CRMs.xlsx - Geochemical data for lake water reference material SLRS-5 inserted into the lake water sample sequence. File contains ICP-MS and ICP-OES analytical data.

Water_ICP_QC_Dups.xlsx - Geochemical data for lake water analytical duplicate pairs. File contains ICP-MS and ICP-OES analytical data.