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Dyer, R.D. and Burke, H.E. 2012. Preliminary data release, southern Ontario stream sediment geochemistry survey; Ontario Geological Survey, Miscellaneous Release—Data 302

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Miscellaneous Release—Data 302

Preliminary Data Release, Southern Ontario Stream Sediment Geochemistry Survey

by R.D. Dyer and H.E. Burke. Stream sediment data, including results from particle size analysis and aqua regia digestion/inductively coupled plasma (ICP) spectrometric analysis for inorganic (metals) chemistry, including quality control data, collected from a survey of 2113 sites in southern Ontario are being released. The data are available as Microsoft® Excel® 2003 (.xls) files on 1 CD.

This publication can be downloaded from

http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=MRD302

This digital data release consists of stream sediment data, including results from particle size analysis and aqua regia digestion/inductively coupled plasma (ICP) spectrometric analysis for inorganic (metals) chemistry collected from a survey of 2113 sites in southern Ontario. Quality control data in addition to general observations of each sample site are included in this release. The stream sediment samples were collected by private contractors under contract to the Ontario Geological Survey (OGS), Ministry of Northern Development and Mines. Although samples were collected according to OGS best practices and protocols, some deviations from OGS methodologies may have occurred. The OGS has exercised due diligence in carefully reviewing the contractor-supplied GPS co-ordinates, field notes and sample site photographs to ensure a sample site accuracy of at least +/- 100 m. However, this does not preclude the possibility that some sample sites may have been collected downstream of road and/or rail bridges and culverts contrary to OGS protocols. Wherever possible, such instances are noted in this data set; however, the user is encouraged to verify critical data by re-sampling prior to making site specific interpretations.

Proper use of geochemical data requires care and understanding of the data. For example, only media with similar bulk compositions should be compared; therefore, organic-rich stream sediment samples should not be directly compared with inorganic-rich samples. Similarly, geochemical bias may be related to sample grain size; for example, it is a well known phenomenon that finer grain sizes typically have a stronger metal geochemical signal relative to the coarser size fractions of a sample. Therefore, the user of this geochemical data set is advised to incorporate the particle size data into their interpretations.

This data release is preliminary and does not include sample sites culled from the data set that required field verification and/or re-sampling. In addition, some significant drainage systems were omitted by the contractors because of either access problems or other logistical reasons. Therefore, additional verification sampling and infill sampling has been undertaken by the OGS and more is planned. Further data releases containing verified and new infill sample sites and a final report/interpretation are future products of this project.

Preliminary Data Release, Southern Ontario Stream Sediment Geochemistry Survey
by R.D. Dyer and H.E. Burke.

7 Microsoft® Excel® (.xls) files and 3 Word (.doc) files

Description of file contents:

Readme.doc - This file

Metadata.pdf

PSA_Summary_code_definitions.doc

Inorganic Stream Sediments: Geochemical and particle size analysis (PSA) data for inorganic stream sediments, CRM's and analytical (pulp) duplicates. Geochemical results of ICP-MS, ICP-OES and LOI analysis. Sample co-ordinates are provided in North American Datum 1983 (NAD83), UTM Zone 17N or 18N as applicable.

Inorg_SS_ICP_Data.xls

Inorg_PSA_Data.xls

Organic Stream Sediments: Geochemical and particle size analysis (PSA) data for organic stream sediments, CRM's and analytical (pulp) duplicates. Sample co-ordinates are provided in North American Datum 1983 (NAD83), UTM Zone 17N or 18N as applicable.

Org_SS_ICP_Data.xls

Org_PSA_Data.xls

Quality Control Data: Geochemical results of ICP-MS, ICP-OES and LOI analysis of analytical (pulp) duplicate pairs and Canmet certified reference material (CRM) STSD-1. Particle Size Analysis data for sample splits (duplicate pairs).

SS_ICP_Dups.xls

SS_ICP_CRM.xls

SS_PSA_Dups.xls