

Geofile 2011-7
Regional Geochemical Survey Database 2011
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Ministry of Energy and Mines

INTRODUCTION

The British Columbia Geological Survey, Ministry of Energy and Mines has been involved in reconnaissance-scale stream sediment and water surveys since 1976. This program has generated high-quality stream and lake sediment and surface water data from geochemical surveys carried out across Canada. In British Columbia the National Geochemical reconnaissance (NGR) program, known as the Regional Geochemical Survey (RGS), has covered roughly 75 percent of the province with stream sediment and stream water sampling at an average sample density of one sample per 13 square kilometres. A MicrosoftTM Access database contains all of the field and analytical information from 61,425 samples collected and/or reanalyzed by the BC Geological Survey, the Geological Survey of Canada and Geoscience BC from 1976 to March 2011. Figure 1 shows the distribution of the samples in the database.

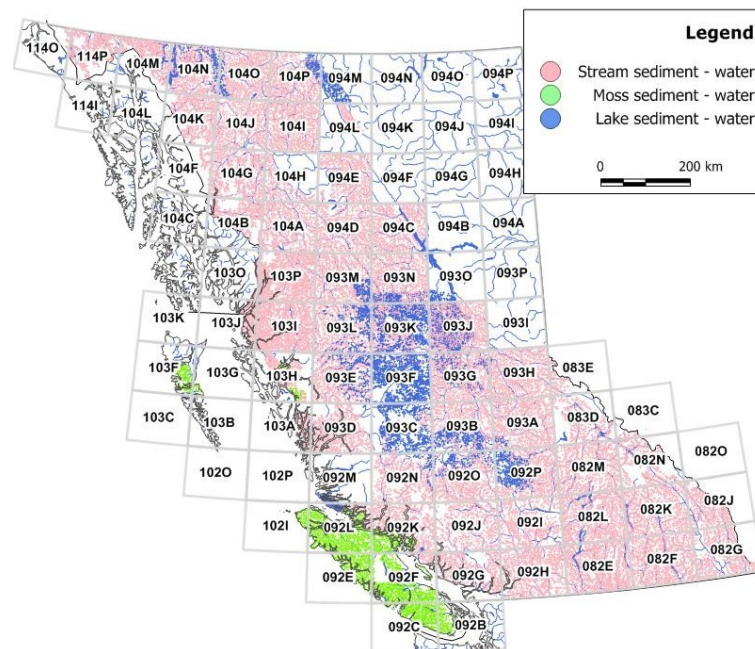


FIGURE 1. RGS SAMPLE COVERAGE

MS ACCESS DATABASE TABLES

The MicrosoftTM Access database comprises the following tables.

1. **2009_93D_Moss_AAS**: Aqua regia-AAS geochemical data for NTS 093D (Bella Coola). 98 records.
2. **2009_93D_Moss_field_data**: Field information for NTS 093D (Bella Coola). 98 records.

3. **2009_93D_Moss_INAA**: Instrumental neutron activation data for NTS 93 D (Bella Colla). 98 records.
4. **2009_93D_Moss_locations**: Moss sample location in NTS 93 D (Bella Colla). 100 records.
5. **2009_93D_Moss_routine_water**: Routine water geochemical data for NTS 093D (Bella Colla). 100 records.

Note: Tables 1-5 were created to avoid duplicate moss and stream sediment sample numbers for NTS 093D (Bella Colla).

6. **2010_RGS_AAS**: Aqua regia-atomic absorption spectrometry- fire assay Au -LOI-F data. 61425 records.
7. **2010_RGS_Field_stream_lake_moss**: Stream-moss-lake sediment field information. 61425 records.
8. **2010_RGS_ICPMS_water**: Inductively coupled plasma mass spectrometry water data. 981 records.
9. **2010_RGS_INAA**: Instrumental neutron activation data. 61425 records.
10. **2010_RGS_Locations**: Site location coordinates and geological information. 61425 records.
11. **2010_RGS_Routine water**: Water pH, F, U and conductivity data. 61425 records.
12. **2011_RGS_ICPMS**: Aqua regia-inductively coupled plasma mass spectrometry data. 61425 records.
13. **2011_RGS_PGE_FA**: Fire assay data for Pt and Pd for Vancouver Island reanalysis (GBC Report 2011-4). 3023 records
14. **2011_RGS_Survey summary**: Source publications for survey data. 67 records.

METADATA

The Microsoft™ Excel table “GF2011-7_RGS_Metadata” explains all of the column header codes and the codes for recoding stream, lake and moss sample information. It also has an index of the RGS surveys.

SELECTED REFERENCES

1. Lett, R. and Jackaman, W. (2004): Stream Geochemical Survey Guide; BCGS Geofile 2004-7.
2. Lett, R. (2005): Regional Geochemical Survey Database on CD; BCGS Geofile 2005-17.
3. BCGS Geochemical Surveys website:
<http://www.empr.gov.bc.ca/Mining/Geoscience/Geochemistry/>