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Mines

GEOCHEMICAL DATA FROM GOLD MINERALIZED QUARTZ VEINS AND RELATED HOST ROCKS, LITTLE RIVER AREA/KENDELL SHOWING, ST. ALBAN'S (NTS MAP AREA 1M/13), SOUTH COAST OF NEWFOUNDLAND

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CONTENTS

FIGURE

SUMMARY

This open file release consists of whole-rock geochemistry data of four samples from gold mineralized rocks and related wall rocks in the St. Alban's map area, south coast of Newfoundland (Figure 1). These samples were collected at, and around, the "Kendell prospect" (now in claim by Canstar Resources Inc., licence number 025257M) during a field visit with C. Kendell in 2019. These assay samples are from quartz veins containing visible gold, their immediate wall rock and a similar wall rock with no visible gold mineralization, as part of a bedrock-mapping project within the St. Alban's map area. Details of the current bedrock mapping project and photographs of rock types and mineralization in the St. Alban's area are available in Westhues (2017), Westhues and Hamilton (2018) and Westhues (2020). A previous open file release 001M/13/0922 (Westhues, 2018) contains the results of 152 whole-rock geochemistry and assay samples, collected from the same general area.

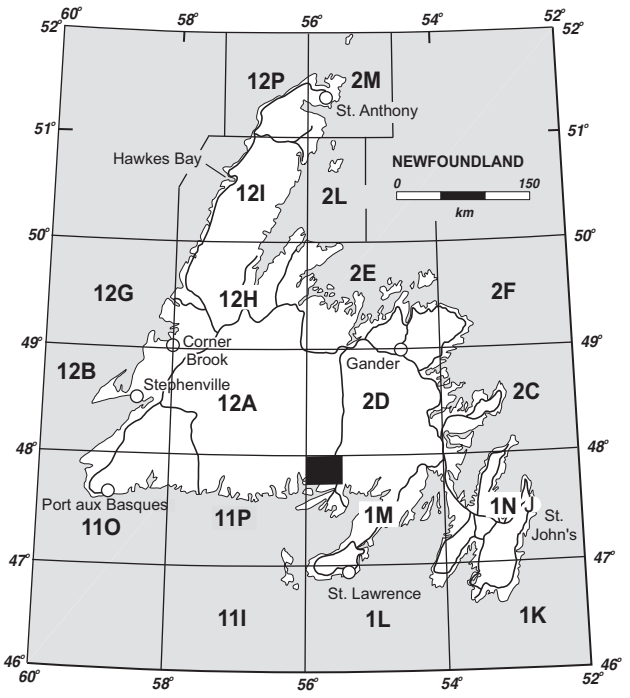

Figure 1. *Location of study area.*

NOTES ON DATABASE

This database includes the results of major, trace element and rare-earth-element (REE) analyses of 4 assay samples collected in 2019. The location data for each sample is given in Universal Transverse Mercator (UTM), eastings and northings (zone 21; NAD27), and a brief sample description and notes on locations can be found in Appendix A. The whole-rock geochemical data are available in digital format (*i.e.*, *.csv comma-separated values files) through the links provided in the Appendices section.

Most analyses were carried out at the Geological Survey of Newfoundland and Labrador (GSNL) laboratory in St. John's, following the methods detailed in Finch *et al.* (2018). Assay samples were further analyzed by the neutron activation analysis package (BQ-NAA-1) for selected trace elements at the external commercial laboratory Bureau Veritas (former Maxxam Analytics/ Becquerel Laboratories; see details of the analytical procedures at https://www.bvna.com/insight/determining-elemental-composition-neutron-activation-analysis, and in Finch *et al.*, 2018). The release includes raw, unprocessed data for standards analyzed at the GSNL laboratory and at Bureau Veritas. For ICP-OES (major elements) and ICP-MS (trace elements), standards were supplied by the United States Geological Survey (RGM-1). One standard supplied by the Canadian Certified Reference Materials Project (WGB-1) was used for the BQ-NAA analyses at Bureau Veritas. Note that due to the small size of this data set, no duplicates were analyzed.

Major elements are reported in weight percent (wt. %), and minor and trace elements are reported in parts per million (ppm), except gold that is reported in part per billion (ppb). Note that the negative values -99 reported for a given element are codes that indicates it was not analyzed for in the sample, whereas all other negative numbers indicate the concentration of the specific element in the sample was below the detection limit (*e.g.*, -0.01 indicates the measured value was below the detection limit of 0.01). Detection limits are listed for each element in Appendices A, B, C and D in the table headers.

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APPENDICES

Appendices A–D are available as digital comma-separated files (.csv) through this link.

APPENDIX A: Major Element and Trace Element Data

APPENDIX B: Standard Data for Major Elements, ICP-OES FUS

APPENDIX C: Standard Data for Trace Elements, INAA

APPENDIX D: Standard Data for Trace Elements, ICP-MS FUS