List of Publications

**McNulty BA**, Jowitt, SM, Exploration for byproduct critical element resources: Proxy development using a LA-ICP-MS database: Frontiers in Earth Science, v. 10, 892941, doi: 10.3389/feart.2022.892941.

**McNulty BA**, Jowitt, SM, Belousov I, 2022, The importance of geology in assessing by- and coproduct metal supply potential; a case study of antimony, bismuth, selenium and tellurium within the copper production stream: Economic Geology, doi: 10.5382/econgeo.4919.

Oliver J, **McNulty B**, Friedman R, 2021, High-precision CA-ID-TIMS age constraints on the Niblack Cu-Zn-Au-Ag deposits: A Neoproterozoic volcanic-hosted massive sulfide deposit in the North American Cordillera: Economic Geology, v. 116, p. 1467-1481, doi: 10.5382/econgeo.4851.

**McNulty BA,** 2021, *Book Review:* Economic Geology, Principles and Practices: Metals, Minerals, Coal and Hydrocarbons–Introduction to Formation and Sustainable Exploitation of Mineral Deposits (2nd revised edition). Walter L. Phol. Economic Geology, v. 116, p. 1485-1486, doi: 10.5382/econgeo.116.6.br02.

Jowitt, SM, **McNulty BA,** 2021, Battery and energy metals: future drivers of the minerals industry?: SEG Discovery, v. 127m, p. 11-18, doi: 10.5382/SEGnews.2021-127.fea-01.

Jowitt, SM, **McNulty BA,** 2021, Mineral resources and reserves: their estimation, use and abuse: SEG Discovery, v. 125, p. 27-36, doi: 10.5382/Geo-and-Mining-11.

**McNulty BA,** Jowitt SM, 2021, Barriers to and uncertainties in understanding and quantifying global critical mineral and element supply: iScience, v. 24, p. 102809, doi: 10.1016/j.isci.2021.102809.

**McNulty BA,** Fox N, Gemmell JB, 2020, Assessing hydrothermal alteration intensity in VHMS systems using pXRF analysis of drill core: An example from Myra Falls, Canada: Economic Geology, v. 115, p. 443-453, doi: 10.5382/econgeo.4714.

Lang JR, Roberts K, Galicki M, Sharman ER, **McNulty BA,** Guszowaty E, 2020, Magmatic, hydrothermal and structural architecture of the Maggie porphyry Cu-Mo-Ag deposit, British Columbia: in Porphyry Deposits of the Northwestern Cordillera of North America: A 25-Year Update, CIM Special Volume 57, p. 621-636.

**McNulty BA,** 2019, Geology of the West Block Area of the Late Devonian Myra Falls VHMS District, B.C., Canada: unpublished PhD thesis, University of Tasmania, Hobart, Australia, 469 p.

**McNulty BA,** Fox N, Berry RF, Gemmell JB, 2018, Lithological discrimination of altered volcanic rocks based on systematic portable X-ray fluorescence analysis of drill core at the Myra Falls VHMS deposit, Canada: Journal of Geochemical Exploration, v. 193 p. 1-21. doi: 10.1016/j.gexplo.2018.06.005.

**McNulty B,** 2014, Geology, Alteration, Lithogeochemistry and Hydrothermal Fluid Characterization of the Neoproterozoic Polymetallic Niblack Volcanic-Hosted Massive Sulfide Camp, Southeast Alaska, USA: unpublished MSc thesis, University of British Columbia, Vancouver, Canada, 95 p. URL: http://hd.handle.net/2429/46005.

Harraden CL, **McNulty BA**, Gregory, MJ, Lang JR, 2013, Short-wave infrared spectral analysis of hydrothermal alteration associated with the Pebble porphyry copper-gold-molybdenum deposits, Iliamna, Alaska: Implications for gold distribution and paragenesis: Economic Geology, v. 108, p. 483-494. doi: 10.2113/econgeo.108.3.483.

List of Publications in Preparation

**McNulty BA**, Gemmell JB, Davidson G, Fox N, 2022, Integrated stratigraphy, lithofacies and U-Pb geochronology of the Myra Falls VHMS deposits, British Columbia, Canada: Implications for episodic volcanism and ore deposit formation: Mineralium Deposita, *under review.*

**McNulty BA**, Jowitt JM, 2022, Byproduct critical metal supply and demand and its implications for the energy transition: Renewable & Sustainable Energy Reviews, *under review.*

List of Conference Abstracts & Presentations

Jowitt, SM, **McNulty BA**, 'Tellurium: Uses, production and future potential', AGU Fall Meeting, New Orleans, LA, USA. (2021).

**McNulty BA,** Jowitt SM, 'Gold-telluride ore deposits: Tellurium mineral economics, resource assessment, and potential value add', Proceeding of the SEG 100 Conference: Celebrating a Century of Discovery in Whistler, BC, CAN. (2021).

**McNulty B,** Gemmell JB, Davidson G, Sawyer R, Stansell, A, 'Geochronological constraints on Late Devonian volcanic-hosted massive sulfide deposit stratigraphy at Myra Falls, British Columbia, Canada', Proceedings of the 14th SGA Biennial Meeting, Quebec City, Canada, 3, pp. 1027-1030. (2017).

**McNulty BA,** Gemmell JB, Davidson G, Sawyer R, Stansell A, 'Systematic handheld XRF analysis: Implications for identifying favourable host volcanic stratigraphy at the Myra Falls volcanic-hosted massive sulfide district, British Columbia, Canada', GAC-MAC 2016 Conference in Whitehorse, Yukon, v. 39, pp. 60. (2016).

**McNulty BA,** Lang, JR, Gregory MJ, Harraden CL, Olson NH, Rebagliati M, 'Geology of the Pebble Porphyry Cu-Au-Mo Deposit, Southwest Alaska', SEG 2015 Conference in Hobart, TAS, AUS. (2015).

**McNulty B,** Gregory MJ, Oliver J, Roberts K, 'Geology and fluid genesis of the Neoproterozoic Niblack Cu-Au-Zn-Ag volcanic-hosted massive sulfide camp, southeast Alaska, USA', SEG 2014 Conference in Keystone, CO, USA. (2014).

**McNulty BA**, Gregory MJ, Roberts K, 'Lithological controls and hydrothermal fluid characterization of the Neoproterozoic polymetallic Niblack volcanogenic massive sulfide system, Alaska', Proceedings of the 12th Biennial SGA Meeting, Uppsala, Sweden, v.2, pp. 557-560. (2013).

**McNulty B,** Roberts K, 'The Niblack Cu-Au-Zn-Ag Volcanogenic Massive Sulfide Deposit, Alaska', Proceeding of the 2012 SME Annual Meeting & Exhibit in Seattle, WA, USA, pp. 735. ISBN: 978-1-62276-089-3 (2012).