

Surficial Sediment Geochemistry Fish Lake Area Central B.C.

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As part of the Canada-British Columbia Agreement on Mineral Development (1991-1995), a regional survey of surficial sediment geochemistry (till and glaciofluvial sediments) has been implemented in west central British Columbia on NTS map sheets 92-0/5 and 0/12. The objectives of this survey are: (1) to supply information on background levels of various elements in till over different bedrock lithologies in an area of high potential for porphyry type mineralization and (2) study Pleistocene stratigraphy, ice flow pattern indicators, and till lithologies in order to interpret glacial history and geochemical data. This type of information will be useful for exploration companies using drift prospecting techniques at the property scale, as well as for establishing a set of baseline data for environmental assessments. Geochemical results presented on the poster serve to illustrate: (1) a strong geochemical signature for As, Cu, Hg and Au in surficial sediments in proximity of Fish Lake Mineralization, (2) another Au, As, Cu and Hg anomaly that extend further northwest from the known mineralization of Fish Lake, and (3) other isolated multi-element anomalies which deserve follow-up work by exploration companies.

Tsacha Property, Nechako Plateau, B.C. (93F/3E)

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The Tsacha property, located 125km southwest of Vanderhoof B.C., covers the Tommy Au, Ag epithermal vein system discovered by the B.C. Geological Survey Branch in 1993. The property is primarily underlain by rhyolite flows and lesser ash tuffs of the Middle Jurassic Hazelton Group, which is intruded by dykes and sills of Tertiary felsite. The Main Tommy Vein trends north, dips vertical to steeply west, has been traced for 600 m and remains open along strike. Alteration consists of silicification and hematization with clay and sericite occurring distally. Values consistently > 1 g/t Au have been obtained along the entire exposure of the vein with maximum values of 61.9 g/t Au, 292.5 g/t Ag over 1.5m, indicating good potential for high grade ore shoots.

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