



Occurrence Details

Occurrence Number: 105B 144

Occurrence Name: Cabin Lake

Occurrence Type: Hard-rock

Status: Showing

Date printed: 4/29/2025 10:30:23 AM

General Information

Primary Commodities: copper

Secondary Commodities: gold

Aliases: Avalanche, CL97-R24

Deposit Type(s): Unknown

Location(s): 60°6'4.24" N - -131°47'40.81" W

NTS Mapsheet(s): 105B04

Location Comments: Based on the location of rock sample CL97-R24

Hand Samples Available: Yes

Last Reviewed:

Capsule

Work History

The area was prospected in 1980 by Cordilleran Engineering for Regional Resources Ltd but no claims were staked. In 1996 Fairfield Minerals Ltd carried out reconnaissance stream sediment sampling and follow-up prospecting programs in the area, the results of which led the company to stake Cl claims 1-100 (YB89142). After an initial program of prospecting, geological mapping, geochemical sampling and airborne geophysics, the company staked Cl claims 101-122 in Jul/97. Later in 1997, Fairfield carried out IP surveying, geochemical sampling, prospecting and excavator trenching. In 2007, Tarsis Capital Corp purchased the property and carried out airborne magnetic and VTEM surveys. In 2008, the company completed a soil sampling survey and in 2009, interpreted the geophysical data from the 2007 program.

Capsule Geology

The occurrence lies within a belt of Yukon-Tanana Terrane rocks. This belt of rocks is part of an accreted island arc assemblage consisting of bimodal volcanics, coeval plutons and sedimentary rocks, as well as younger Jurassic and Cretaceous intrusions. The main units in the area are felsic metavolcanic rocks, (quartz-muscovite schist) and intermediate to mafic volcanic and volcanoclastic rocks of the Devonian-Mississippian Finlayson Group, and plutonic rocks of the Early Jurassic Long Lake Suite (granodiorite). The occurrence itself is underlain by Finlayson Group quartz-muscovite schist.

Initial prospecting in the area by Fairfield in 1996 outlined several kill zones where semi-massive and disseminated bands of pyrite and chalcopyrite were identified within the felsic metavolcanic stratigraphy. In 1997, a 400 x 800 m copper-in-soil anomaly (Cu >150 ppm) was identified; the peak copper value was 6324 ppm Cu. A sample of schist from the anomaly area contained disseminated pyrite and chalcopyrite and assayed 12,112 ppm Cu. Several samples within a 250 m radius of this sample assayed from 3398 ppm Cu to 8674 ppm Cu. One rock sample 1.6 km west-northwest of the occurrence (T343-R1) was collected in a quartz-carbonate alteration zone and assayed 673 ppb Au.

The 1997 IP and resistivity survey on the Cabin Lake grid delineated a series of chargeability and resistivity highs at the upslope limit of the large copper-in-soil anomaly. A property-wide VTEM survey in 2007 did not identify significant EM conductors associated with the geochemically anomalous volcanoclastic strata in the west central part of the claim block.

Lead isotopic studies (2002) on galena collected from the area yielded a broad Devonian to Mississippian model age, thus providing strong support for a syngenetic origin for the mineralization in this area. The origin of the copper mineralization is unknown, but may be associated with a hydrothermal alteration halo of the nearby Jurassic intrusion, which contains chalcopyrite-molybenite-pyrite bearing quartz veinlets. The proximity of the intrusion may also partially account for the sericite and chlorite alteration, and local silification documented in the trenches on the property.

Work History

Date	Work Type	Comment
12/31/1997	Geochemistry	Also soil sampling.
12/31/1997	Geology	
12/31/1997	Airborne Geophysics	Also magnetic survey.
12/31/1996	Geochemistry	Program was reconnaissance in nature.
12/31/1996	Other	Program was reconnaissance in nature.
12/13/2009	Airborne Geophysics	Interpretation of 2007 geophysical surveys
12/13/2008	Geochemistry	
12/13/2007	Airborne Geophysics	
12/13/2007	Airborne Geophysics	
12/13/1997	Geochemistry	
12/13/1997	Ground Geophysics	
12/13/1997	Ground Geophysics	

12/13/1997	Trenching	Also Hand trenching.
------------	-----------	----------------------

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
095074	2009	Assessment Report Describing Soil Sampling and Detailed Interpretation of 2007 VTEM Geophysical Survey at the Cabin Lake Property	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Soil - Geochemistry, Soil - Geochemistry, Process/Interpret - Pre-existing Data		
095020	2007	Assessment Report Describing Geophysical Surveys at the Cabin Lake Property	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, VTEM - Airborne Geophysics		
093843	1997	1997 Geological, Geochemical, Geophysical and Trenching Report on the Cabin Lake Property	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, VTEM - Airborne Geophysics, Rock - Geochemistry, Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Bedrock Mapping - Geology, EM - Ground Geophysics, IP - Ground Geophysics, Line Cutting - Other, Prospecting - Other, Backhoe - Trenching, Backhoe - Trenching, Hand - Trenching		

Related References

Number	Title	Page(s)	Reference Type	Document Type
YEG1997	Yukon Exploration and Geology 1997	20,35	Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report
YEG2001_16	Lead isotopic constraints on the metallogeny of southern Wolf Lake, southeastern Teslin and northern Jennings River map areas, Yukon and British Columbia: Preliminary results		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report Paper