Pine Grove Property

November 11, 2019

Geographical Location: Pine Grove Property is located 20 km north of Hemlo Mines and 30 km south of Manitouwadge, Ontario. The currently active Hemlo Mines have produced over 25 Moz of gold. Access and power to the property is good, with highway 614 intersecting the property on its eastern edge.

Geological Location: The property is located in the Superior Province (Wawa Sub-Province) in the Helmo Greenstone Belt. The Wawa Province is considered, by some, a western extension of the Abitibi Sub-Province, which is separated by the Kapiskasing Structural Zone.

This property is located on an underexplored subsidiary high-strain shear zone that merges with the high-strain shear zone, which hosts Hemlo Mines.

Size of Property: The property consists of 82 claims (38 Single Claims and 47 Boundary Claims). The size of the land package is approximately 1,280 hectares (12.8 km^2).

Target Type: Underground high-grade Archean Lode-Gold Deposit (+3 Moz Au).

Discussion: The property is extremely under explored with little to no drilling. Limited drilling did take place but was focused around VMS mineralization (southern part of property). The drilling that was done during this early exploration attempt encountered Roscolite mineralizaton (green vanadium bearing mica) in all drillholes, which is a pathfinder mineral for gold that is present in Hemlo Gold Mines.

A rigorous systematic geochemical exploration was done, for the first time, over the property in 2012 and highlighted some interesting gold-in-soil geochemical anomalies. One sample ran as high as 1.8 g/t Au in B-horizon soils. The trend of these high gold-in-soil anomalies follows the high strain shear zone. Very little follow up to these anomalies took place.

John Florek has taken similar geochemical surveys. A similar anomaly that his team developed during his employment as Vice President of Exploration for Entourage Metals Inc. revealed a soil anomaly containing 0.8 g/t Au on another project area in the greenstone belt. Follow up of this anomaly by Canadian Orebodies revealed boulders and outcrop containing several oz/ton in the vicinity.

The geology of the area is conducive for gold mineralization. There are multiple internal intrusives in this high strain shear zone trend to help fertilize this portion of the greenstone belt. A similar intrusive, the Cedar Creek Stock, is proximal to Hemlo. The geochemistry also helped propose a fluid mixing model for gold deposition and has yet to be tested.

There are several key targets developed through geochemical, geophysical, and geological interpretation. These targets can be drill ready with relative ease. Follow up to these areas with additional prospecting, soil/rock geochemistry, and geophysical methods can lead to a short drilling campaign to better understand the targets prior to an intensive drilling program.