

1. 'Distal' stratabound volcano-sedimentary Pb-Zn-Cu-Ag mineralization similar in style to the Rosebery and Que River deposits has been located at Voyager 19 and is likely to occur in the Voyager22-Voyager 29 and Voyager 31 areas.
2. Proximal style disseminated Cu (Au) mineralization hosted in tuffs and lavas is likely to be present at Voyager 9 and in the Wart Hill (ss) area of Voyager 19.

ii) Exploration Procedures and Problems

C-horizon geochemistry has proven to be an effective technique for locating mineralized lenses as a follow up to an initial geological reconnaissance reliant on the recognition of hydrothermal alteration in the volcanic pile. Stream sediment geochemistry is of little use in this environment (Large, 1981) for two principal reasons. 1) there appears to be very little dispersion of metals into the zone of weathering as shown by the fresh sulphides at Voyager 19 and

2) once in solution the metals do not appear to precipitate in the streams, there is no drainage anomaly downstream from the Voyager 19 sulphides.

The grid sampling configuration is extremely important for the location of mineralized lenses which have virtually no secondary dispersion halo and only a very narrow primary halo.

A 100m x 25m sample density can be considered an absolute minimum for the initial definition of anomalous areas. Optimum sample spacing for definition of mineralized bands for costean work or drill targetting purposes is in the order of 25m x 5-10m.