

4.3 C-HORIZON GEOCHEMISTRY

C-Horizon or bedrock samples were collected at 25m intervals along 200m spaced lines over all those parts of the IP survey area which had not previously been geochemically sampled.

These are, principally, the southern part of the grid (between 7000N to 9800N and approximately 8200E to 12000E) and the north eastern extensions of the Voyager 34 area.

Samples were obtained by drilling to the 'limit of penetration' with a Bombardier mounted Jacro drill using 75mm diameter auger rods. Sample depths ranged from 0.2 to 3.5m with average around 1.0 metres.

The -80mesh fractions were analysed for Cu, Pb, Zn, Fe and Ag by Atomic Absorbtion Spectrophotometry. (Method G001 of Australian Laboratory Services). Samples from the vicinity of the gold-tin drainage anomaly were also analysed for Au, As and/or Sn, W, by A.A.S. and X.R.F. techniques respectively. (A.L.S. methods: Au PM 205; As G004; Sn + W X.R.F.1-A). Tabulated analytical results are presented in Appendix II.

Sample locations and analytical results are plotted on separate series of 1:2500 scale plans included with this report.

Lead and zinc contour plans are presented at 1:2500 scale for the Voyager 34 (north eastern) area.

No attempt has been made to present the contoured data at 1:2500 scale for the large southern area.

However, lead and zinc contour plans have been produced at 1:10,000 scale to cover the entire area of the regional IP survey. These plans are based on all previous (Voyager Prospects) geochemical data as well as the 1982-83 sampling and indicate the extent and density of C-Horizon sampling over the Wart Hill Pyroclastics.