

- 039
6. A total of 545 stream sediment samples were collected from the streams, creeks and rivers draining the prospective area. A duplicate sample was collected at every tenth location. The area sampled is approximately 51 square kilometres and the overall sample density over the prospective area was approximately 11 samples per square kilometre. It was decided prior to the survey that oversampling to a degree would be preferred considering the cost of resampling.

The sample location points were measured off from a known starting point and all locations were marked with flagging tape and numbered aluminium tags. The nature of the sample, location number and assay values were recorded in sample books which are in storage at the Devonport Office.

The samples were dried, rebagged if required and forwarded to A.C.S. Laboratories, Adelaide. The -80 mesh fraction was separated and analysed for Cu, Pb, Zn, Ag, Mn and Fe by A.A.A. Ba and Sn were determined by Emission Spectrographic analysis schemes E.S.2 and E.S.3. A total of 16 samples were selected for X.R.F. Sn and W analysis based upon their anomalous Emission Sn results. In addition 27 samples were selected on their resulting Pb and Zn analyses for Semiquantitative Emission Spectrographic analysis schemes E.S.1-4 and E.S.6. The sample book numbers and assay results are enclosed as appendices Nos. 1, 2 and 3.

7. Cumulative frequency plots of the log 10 concentrations of Cu, Pb and Zn were calculated in order to determine statistical threshold values, the results of which are shown in figure 2. Sheets KT 27/76 5B-8B in the folder of this report show the Cu, Pb and Zn results obtained at each stream sediment sample location and display in coloured symbolic form zones considered anomalous by a combination of eyeball and statistical methods.