

GEOCHEMISTRYStream Sediment Sampling

Stream sediment sampling was selected as an appropriate exploration technique for the Elliott Bay area. The sample spacing of 200 metres and the size fraction for analysis, -80 mesh, were selected based upon experience within northern and south western Tasmania.

A total of 545 samples of the fine sediment material were collected from the streams, creeks and rivers draining the prospective area of Lewis River Volcanics. In addition to samples being taken every 200 metres along the drainage systems, one in ten locations were resampled to serve as checks.

Due to the difficulty of accurately positioning the sample locations on aerial photographs in this region, film copies of the 1:10,000 scale base maps were used to record the locations, each point being measured on the ground from a recognisable stream junction.

The sample locations were marked by flagging tape and numbered aluminium tags. Details of location and type of sample were recorded on cards (KD series) which are filed in the Devonport office.

The samples were dried and rebagged as necessary prior to despatch to A.C.S. Laboratories, Adelaide. The -80 mesh fraction was separated and analysed for Cu, Pb, Zn, Ag, Mn, Fe, Ba and Sn. In addition 27 samples were selected on their resulting Pb and Zn analysed for Semi quantitative Emission Spectrographic Analysis Schemes E.S. 1-4 and E.S. 6. A total of 30 samples were selected for W analysis, 16 of which were also analysed for Sn. Both elements were analysed by X.R.F. methods.