

3. Stream Geochemistry (refer to Appendix 2 - Stream Geochemistry data sheets)

On advice of N.J. Marshall, the programme of stream sediment sampling was to collect -80 mesh sediments at fairly close intervals, nominally 250m apart. This programme was to be supplemented with the collection of Mn and Fe coated pebbles wherever they occurred within streams.

To date analysis of soluble (reactive) stream sediment coating in stream pebbles has not been adopted in Australia although it has been recently used in North America.

On the West Coast of Tasmania the humic acid rich waters in swift flowing streams tend to be oxidised, precipitating Fe and Mn, together with any trace elements in solution, onto any convenient surface (namely pebbles and shingles) subsequently analysis of coatings should thus reflect the amount of metal in ground water entering the stream.

To date stream sediment and Fe/Mn coated pebble sampling is incomplete with approximately 2km of the Sterling River, and 1.7km of streams crossing line 5,372,523N sampled. This programme is to be continued at a later stage.

To date no anomalous values have been obtained.

5.3.5. GEOPHYSICS

(refer to 1:10,000 Geophysical Plans - Induced Polarisation Sheets 7 & 9 AO-525-0024, -0058 & Appendix 4)

North of the Stitt Grid (e.g. Mt. Sale) previous reconnaissance geophysics involved gradient array I.P. at 1km north-south spacings. Generally this method lacked