

be used with confidence in January and February, and helicopter sites have to be cleared.

Most of the Comstaff Licence areas have been covered by stream sediment sampling, but not all anomalies have been followed up by detailed soil sampling and mapping, for example, the zinc anomalies H1 and H2 in the Hatfield area. The attached assessments for the various areas indicate where additional work is required.

The southern half of Exploration Licence 5/63 was covered by an Input survey which produced some excellent anomalies, less than half of which have been followed up on the ground. It has been proposed that an airborne EM system be used to survey Exploration Licences 1/68 and 5/63 part 1. Such a survey is urgently required to test this area for tin bearing massive sulphide deposits.

The exploration target is a massive sulphide deposit of the order of 10 million tonnes, either as a polymetallic volcanogenic deposit or a massive pyrrhotite body containing circa 1% Sn. Such a deposit is relatively small and would fit into a cube having sides 130m long or its equivalent as a tabular body.

Sphalerite, which does not respond to geophysical techniques, is the dominant sulphide in volcanogenic deposits in Tasmania. The soils are highly leached and acidic over most of the Comstaff tenements, and any cations released during the weathering process are removed by ground water so that geochemistry is not entirely reliable. Since geochemical and geophysical techniques have limitations, it is essential to maximise geological control by costeaning and diamond drilling. Costeaning is becoming increasingly difficult due to the conditions imposed by the Department of the Environment, and if these become more stringent, it may be necessary to provide drilling funds for stratigraphic boreholes.

Table 2 summarises the work required on the various anomalies which have been outlined by either airborne EM or regional geochemistry.

The following areas have been listed in order of priority for future work:

a) Volcanogenic Targets

Burns Peak Syncline  
Que Syncline