

is present in some higher horizon, perhaps related to flood levels of the Mainwaring (in which anomalous gold has been found in stream sediments further upstream - Poltock 1981). The depths at which the initial hand-held power auger samples were collected are not known but are unlikely to have exceeded 0.5-1m.

Fifteen rock chip samples of representative rocks within the 'Tyndal/ Groups' and including some with sulphide clasts and others with minor fine iron stained quartz veinlets, were collected and analysed for the same elements as the soils (KR 7410-7424, refer to fig 79 for locations).

None of these rocks contained gold above the lower detection limit (0.008gm/t) or significant amounts of other metals and it is concluded that the Poltock's gold anomaly is not locally derived.

However, the Jacro sampling did indicate a strong (single sample) C-horizon geochemical anomaly west of the Mainwaring at 962.5m west, within the acid volcanics. This sample contained (in ppm) 80Cu, 5100Pb, 2400Zn, 17.0Ag and 0.03Au (all distinctly anomalous) and, curiously, 770ppm Fe which is no more than half the local background value.

iv) Conclusions

The soil geochem gold anomaly was unsubstantiated by Jacro C-horizon sampling and it seems likely that the anomaly relates to gold bearing alluvium coming from further up the Mainwaring River.