

The major recommendation that effected the standard sampling procedure was "in future, prior to routine geochemical surveys, each grid is to be traversed by a geologist skilled or instructed in the recognition of major pedological units so as to map the main soil types prior to, and as a guide to, the selection of the appropriate soil sampling technique and aid to subsequent interpretation." In theory this is a suitable approach, particularly in a new exploration area, but in practice on an on-going project, a compromise situation prevails. In the case of this project area, much of the gridded area had previously been A⁰ sampled, and for the sake of continuity, all grid lines were sampled using the A⁰ horizon. However, more attention was paid to the soil types over which the samples were taken during assessment of the results; the intention being to test with hand auger drilling any anomalous A⁰ responses. Also, it proved to be convenient to collect the A⁰ sample in conjunction with the surveying of the grid lines. This meant that there was a significant saving of time as the field hands did not have to traverse the line a second time to take samples.

Some hand auger sampling was carried out as a check on A⁰ anomalies, mainly in the Chester area. The augering was designed to penetrate the overburden into bedrock. The recognition of bedrock in the environment is difficult at times with the substantial leaching that has taken place.

4.5. Geophysical Surveys

4.5.1. Ground Magnetometer Surveys

These were carried out using a McPhar Proton Precession Magnetometer. Although there is no evidence that any particular rock units or lithologies are anomalously magnetic, it was decided to cover all recent gridding with ground magnetometer surveys. It was hoped that with this precision instrument, any major lithological boundary may show up.

On the grid line surveys, readings were taken at 20m intervals except where a significant variation from background occurs, and intermediate 10m station intervals were recorded.