

KR3412: lithic quartz crystal tuff, extensively sheared and micro-crenulation folded, as a result sericitised chloritised and silicified

Field note: dark fine grained siliceous rock (altered quartz felspar porphyry, rhyolitic)

This is the most extensively 'tectonised' sample in the suite, manifest as sericitic and chloritic shears, combined with micro-crenulation (kink) folding, mainly within the matrix but also incorporating some relict lithic fragments, and/or altered felspar crystals.

Relict single crystal, quartz crystals (25%), average size 1 mm, and a similar abundance of 'patches' of microcrystalline quartz-sericite-chlorite, which appear to be altered lithic fragments are randomly disposed. These are volcanic crystals and fragments, extensively stressed and variably recrystallised.

The matrix has a similar composition (and origin) as the patches, composed of microcrystalline to cryptocrystalline quartz, crowded with a set of parallel fine shear planes and micro-crenulation folds outlined by variable concentrations of chlorite and sericite. Accessory micaceous hematite is present.