

SITE: MM129

Land unit: White Swan Sedimentary

Aust. Soil Class.: Mottled, ?, Brown KURO SOL (confidence level 4)

General Land Unit Description:

This land unit consists of the rises and low hills of the Ordovician marine sediments around Ballarat. The soils tend to be shallow stony soils (Rudosols, Dermosols) on the crests and steep slopes, with deeper texture contrast soils (Kurosols, Chromosols) on the gentle slopes and fans.

Site Description:

Geology: Ordovician marine sedimentary

Landform pattern: Undulating rises

Position in landscape: Lower slope

Internal drainage: Moderately well drained

Soil Profile Morphology

Topsoil

A1 0-35 cm Very dark greyish brown (10YR3/2) *fine sandy clay loam*, firm consistence when dry, many coarse sandstone fragments, pH 5.3. Sharp transition to:

Subsoil

B2 35+ cm Brown (10YR4/3) *heavy clay*, red mottles, strong blocky structure (5-10 mm), firm consistence when moderately moist, pH 5.4.

Key profile features:

- Acidic topsoil
- Acidic subsoil
- Strong texture contrast between topsoil and subsoil
- Coarse fragments in topsoil