

SITE: MM798

Land unit: Minjah Basalts

Aust. Soil Class.: Ferric, Mottled-Subnatric, Brown SODOSOL (confidence level 2)

General Land Unit Description:

The unit consists of an association of Mottled Yellow with Mottled Black Chromosols and Sodosols on the level and more poorly drained portions of the gently undulating plains in the Hawkesdale area. Ferric Brown Chromosols usually occur on the slopes and broad crests of very slight rises which have a few scattered surface stones. Water is usually ponded for 1-2 weeks/year and on the poorly drained portions of the plain between the rises.

Site Description:

Geology: Quaternary basalt

Landform pattern: Gently Undulating plains

Position in landscape: Upper slope-Crest

Internal drainage: Moderately well drained

Soil Profile Morphology

Topsoil

A1 0-15 cm Dark brown (10YR3/3) *clay loam*, structureless, consistence very weak when moist, pH 5.0. Clear transition to:

A2 15-40 cm Brown (10YR5/3) *clay loam*, bleached (10YR7/3) when dry, ferruginous nodules (<2 mm) are abundant. Sharp transition to:

Subsoil

B21 40-60 cm Yellowish brown (10YR5/6) *medium clay*, red mottles (2.5YR4/6), strong blocky structure (5-10 mm), pH 6.5. Transition to:

B22 60+ cm Yellowish brown (10YR5/6) *medium clay*, red mottles (2.5YR4/6), strong blocky structure (5-10 mm), pH 6.0.

Key profile features:

- Strongly acidic topsoil
- Strong texture contrast between topsoil and subsoil
- Bleached A2 horizon
- Ferruginous nodules are abundant in A2 horizon
- Mottled subsoil