

**SITE: QUA98 (plot 4)**

**Land unit: Drumborg Basalt Hills**

***Aust. Soil Class.:***

### **General Land Unit Description:**

This land unit consists of the undulating rises of Sugarloaf Hill and Sheoak Rise, north of Heywood. The soils consist of Red Dermosols and occasionally Kurosols on the crests and slopes of the rises. On the lower slopes and plains in between the rises, Ferric Brown Chromosols or Dermosols predominate. There are minor occurrences of Black Vertosols in local depressions. Here a two year old *Eucalyptus globulus* plantation exists on ex-agricultural land



### **Site Description:**

**Geology:** Quaternary basalt

**Position in landscape:** Lower slope

**Landform pattern:** Undulating rises to low hills

**Internal drainage:** Moderately well drained

### **Soil Profile Morphology**

#### **Topsoil**

**A11** 0–20 cm Dark brown (7.5YR3/3) *clay loam*, moderate granular structure (10-20 mm) parting to moderate granular structure (2-5 mm), weak consistence when moist, many medium roots. Clear and smooth transition to:

**A12** 20–40 cm Dark brown (7.5YR3/4) *clay loam heavy*, moderate granular structure (20-50 mm) parting to moderate granular (5-10 mm), weak consistence when wet, many medium ferruginous nodules, many very fine macropores, areal porosity 0.5%, many very fine roots. Gradual and smooth transition to:



## **Subsoil**

**B1** 40–60 cm Brown (7.5YR4/4), *light clay*, moderate granular structure (20-50 mm) parting to moderate granular structure (5-10 mm), weak consistence when wet, common medium ferruginous nodules, many fine macropores, areal porosity 0.7%, few very fine roots. Clear and smooth transition to:

**B21** 60–100 cm Red (2.5YR4/6), *medium clay*, strong polyhedral structure (20-50 mm) parting to strong polyhedral structure (5-10 mm), firm consistence when moist, few medium ferruginous nodules, common fine macropores, areal porosity 0.1%, few very fine roots. Diffuse and smooth transition to:

**B22** 100–130 cm Red (2.5YR4/6) *medium clay*, strong polyhedral structure (20-50 mm) parting to strong polyhedral structure (10-20 mm), firm consistence when moist, very few medium ferruginous nodules, common fine macropores, areal porosity 0.1%, no roots observed. Gradual and smooth transition to:

**B23** 130–150 cm Red (2.5YR4/6) with many coarse distinct yellowish brown (10YR5/7) mottles, *medium clay*, strong polyhedral structure (20-50 mm) parting to strong polyhedral structure (10-20 mm), firm consistence when moderately moist, very few medium ferruginous nodules, common fine macropores, areal porosity 0.03%, no roots observed.

150–400 cm Heavily weathered vesicular basalt, reasonably porous, medium (5 mm) live roots seen at 250-400 cm on one pit face only, rocks start a 250 cm and become more abundant and impenetrable at 330cm.