

Project Name: RR
Project Code: RR **Site ID:** B440 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

| | | | |
|------------------------|------------------------------|-------------------|-------------------------|
| Desc. By: | G.D. Hubble | Locality: | |
| Date Desc.: | 01/09/60 | Elevation: | 227 metres |
| Map Ref.: | Sheet No. : 8550 1:100000 | Rainfall: | 591 |
| Northing/Long.: | 148.116666666667 | Runoff: | Moderately rapid |
| Easting/Lat.: | -23.725 | Drainage: | Moderately well drained |

Geology

| | | | |
|----------------------|----------|------------------------------------|---------|
| ExposureType: | Soil pit | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | Tb | Substrate Material: | Basalt |

Land Form

| | | | |
|-------------------------|------------------------------|------------------------|-----------|
| Rel/Slope Class: | Undulating rises 9-30m 3-10% | Pattern Type: | No Data |
| Morph. Type: | No Data | Relief: | 24 metres |
| Elem. Type: | No Data | Slope Category: | No Data |
| Slope: | 0 % | Aspect: | No Data |

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

| | | | |
|--|--|--------------------------------|-------------|
| Australian Soil Classification: | | Mapping Unit: | N/A |
| Epicalcareous Self-Mulching Black Vertosol | | Principal Profile Form: | Ug5.12 |
| ASC Confidence: | | Great Soil Group: | Black earth |

All necessary analytical data are available.

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - , , . *Species includes - Dichanthium sericeum, Heteropogon contortus
Tall Strata - Tree, , Isolated plants. *Species includes - Eucalyptus dichromophloia, Acacia species

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

| | | |
|----|---------------|---|
| AB | 0 - 0.15 m | Very dark brown (7.5YR2/2-Dry); ; Heavy clay; Strong grade of structure, <2 mm, Granular; Dry; Firm consistence; 0-2%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Field pH 7.3 (pH meter); Gradual change to - |
| B2 | 0.15 - 0.46 m | Very dark brown (7.5YR2/2-Dry); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; 0-2%, Basalt, coarse fragments; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 7.7 (pH meter); Gradual change to - |
| B2 | 0.46 - 0.61 m | Very dark brown (7.5YR2/2-Dry); ; Heavy clay; Strong grade of structure, 50-100 mm, Lenticular; Moderately moist; Very firm consistence; 2-10%, Basalt, coarse fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8 (pH meter); Gradual change to - |
| C | 0.61 - 0.76 m | ; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 8.3 (pH meter); |

Morphological Notes

C Weathered basalt with clay pockets.

Observation Notes

0-15CM GRANULAR GRADING TO BLOCKY STRUCTURE. CARBONATE NODULES ON SURFACE SUGGESTING "PUFF" BUT NO MICRO RELIEF.

Site Notes

EMERALD

Observation ID: 1

[illegible]

Project Name: RR
Project Code: RR **Site ID:** B440 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Laboratory Analyses Completed for this profile

| | |
|-----------|--|
| 15_NR_CA | Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded |
| 15_NR_H | Hydrogen Cation - meq per 100g of soil - Not recorded |
| 15_NR_K | Exch. basic cations (K++) - meq per 100g of soil - Not recorded |
| 15_NR_MG | Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded |
| 15_NR_NA | Exch. basic cations (Na++) - meq per 100g of soil - Not recorded |
| 19B_NR | Calcium Carbonate (CaCO3) - Not recorded |
| 2A1 | Air-dry moisture content |
| 3_NR | Electrical conductivity or soluble salts - Not recorded |
| 4_NR | pH of soil - Not recorded |
| 5_NR | Water soluble Chloride - Cl(%) - Not recorded |
| 6A1 | Organic carbon - Walkley and Black |
| 7_NR | Total nitrogen (%) - Not recorded |
| 9_NR | Available P (mg/kg) - Not recorded |
| 9A_NR | Total element - P(%) - Not recorded |
| P10_GRAV | Gravel (%) |
| P10_NR_C | Clay (%) - Not recorded |
| P10_NR_CS | Coarse sand (%) - Not recorded |
| P10_NR_FS | Fine sand (%) - Not recorded |
| P10_NR_Z | Silt (%) - Not recorded |