

**Project Name:** RR  
**Project Code:** RR      **Site ID:** B302      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

|                        |                              |                   |                     |
|------------------------|------------------------------|-------------------|---------------------|
| <b>Desc. By:</b>       | G.D. Hubble                  | <b>Locality:</b>  |                     |
| <b>Date Desc.:</b>     | 29/10/56                     | <b>Elevation:</b> | 60 metres           |
| <b>Map Ref.:</b>       | Sheet No. : 9245    1:100000 | <b>Rainfall:</b>  | 889                 |
| <b>Northing/Long.:</b> | 150.975                      | <b>Runoff:</b>    | Moderately rapid    |
| <b>Easting/Lat.:</b>   | -26.209722222222             | <b>Drainage:</b>  | Imperfectly drained |

**Geology**

|                      |                            |                                    |  |
|----------------------|----------------------------|------------------------------------|--|
| <b>ExposureType:</b> | Existing vertical exposure | <b>Conf. Sub. is Parent. Mat.:</b> | No Data  |
| <b>Geol. Ref.:</b>   | Rn                         | <b>Substrate Material:</b>         | Existing vertical exposure, 1.2 m deep, Detrital sedimentary rock (unidentified) |

**Land Form**

|                         |           |                        |           |
|-------------------------|-----------|------------------------|-----------|
| <b>Rel/Slope Class:</b> | No Data   | <b>Pattern Type:</b>   | Low hills |
| <b>Morph. Type:</b>     | No Data   | <b>Relief:</b>         | No Data   |
| <b>Elem. Type:</b>      | Hillslope | <b>Slope Category:</b> | No Data   |
| <b>Slope:</b>           | 0 %       | <b>Aspect:</b>         | No Data   |

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

|  |  |                                |              |
|--|--|--------------------------------|--------------|
| <b>Australian Soil Classification:</b>       |  | <b>Mapping Unit:</b>           | N/A          |
| Haplic Hypocalcic Red Chromosol              |  | <b>Principal Profile Form:</b> | Dr2.43       |
| <b>ASC Confidence:</b>                       |  | <b>Great Soil Group:</b>       | Solodic soil |
| All necessary analytical data are available. |  |                                |              |

**Site Disturbance:** Limited clearing, for example selective logging

**Vegetation:**

Tall Strata - Tree, 6.01-12m, Very sparse. \*Species includes - Eucalyptus crebra, Eucalyptus tessellaris

**Surface Coarse Fragments:** 2-10%, cobbly, 60-200mm, ,

**Profile Morphology**

|       |               |  |
|-------|---------------|--|
| A1/A2 | 0 - 0.1 m     | Brown (10YR5/3-Dry); ; Loam (Heavy); Moderate grade of structure, 5-10 mm, Polyhedral; Many (>5 per 0.01m2) Medium (2-5mm) macropores, Dry; Weak consistence; 2-10%, coarse gravelly, 20-60mm, coarse fragments; Field pH 6.3 (pH meter); Clear change to -                          |
| B2    | 0.15 - 0.46 m | Red (2.5YR4/5-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Prismatic; 5-10 mm, Angular blocky; Moist; Very firm consistence; Very few (0 - 2 %), Manganiferous, , Nodules; Field pH 5.5 (pH meter); Gradual change to -   |
| B3    | 0.69 - 0.91 m | Yellowish brown (10YR5/6-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.1 (pH meter); Gradual change to -                                   |
| BC    | 0.91 - 1.17 m | Yellowish brown (10YR5/6-Moist); ; Light medium clay; Weak grade of structure, Angular blocky; Moist; Firm consistence; 10-20%, coarse gravelly, 20-60mm, angular, Substrate material, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.6 (pH |
| R     | - m           | Rock   |

**Morphological Notes**

R Piece of fossiliferous surface stone - presumably parent material

**Observation Notes**

0-10CM A1 + A2 HORIZON:

**Site Notes**

GOOMERI

**Observation ID: 1**

**Laboratory Test Results:**

| Depth       | pH   | 1:5 EC | Ca    | Exchangeable Mg | Cations K | Na          | Exchangeable Acidity | CEC   | ECEC | ESP  |
|-------------|------|--------|-------|-----------------|-----------|-------------|----------------------|-------|------|------|
| m           |      | dS/m   |       |                 |           | Cmol (+)/kg |                      |       |      | %    |
| 0 - 0.1     | 6.3A | 0.02C  |       |                 |           |             |                      |       |      |      |
| 0.15 - 0.46 | 5.5A | 0.03C  | 9.4K  | 7.4             | 0.37      | 0.56        |                      | 29.4J |      | 1.90 |
| 0.69 - 0.91 | 8.1A | 0.12C  | 14.2K | 1.7             | 0.17      | 1.7         |                      | 29.6J |      | 5.74 |
| 0.91 - 1.17 | 8.6A | 0.14C  |       |                 |           |             |                      |       |      |      |

| Depth       | CaCO3 | Organic C | Avail. P | Total P          | Total N | Total K | Bulk Density | Particle |     | Size | Analysis |      |
|-------------|-------|-----------|----------|------------------|---------|---------|--------------|----------|-----|------|----------|------|
| m           | %     | %         | mg/kg    | %                | %       | %       | Mg/m3        | GV       | CS  | FS % | Silt     | Clay |
| 0 - 0.1     |       | 1.55A     | 8C       | 0.087F<br>0.038F | 0.14B   |         |              | 9        | 15C | 32   | 24       | 28   |
| 0.15 - 0.46 |       |           |          |                  |         |         |              | 1        | 8C  | 18   | 17       | 58   |
| 0.69 - 0.91 | 0.25C |           |          |                  |         |         |              | 3        | 8C  | 24   | 21       | 46   |
| 0.91 - 1.17 | 0.33C |           |          |                  |         |         |              | 19       | 11C | 27   | 20       | 41   |

[illegible]

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**Laboratory Analyses Completed for this profile**

|           |  |
|-----------|--|
| 15_NR_CA  | Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded |
| 15_NR_CEC | CEC - 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 (CaCO <sub>3</sub> ) - Not recorded            |
| 2A1       | Air-dry moisture content   |
| 3A_TSS    | Electrical conductivity or soluble salts - Total soluble salts % |
| 4A1       | pH of 1:5 soil/water suspension                                  |
| 5A2       | Chloride - 1:5 soil/water extract, automated colour              |
| 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  |