

**Project Name:** WAGGA WAGGA SOIL LANDSCAPES  
**Project Code:** 1000448      **Site ID:** WW306      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

**Site Information**

|                        |                          |                   |              |
|------------------------|--------------------------|-------------------|--------------|
| <b>Desc. By:</b>       | Chen, XY                 | <b>Locality:</b>  |              |
| <b>Date Desc.:</b>     | 15/07/93                 | <b>Elevation:</b> | 295 metres   |
| <b>Map Ref.:</b>       | Sheet No. : 8327 1:25000 | <b>Rainfall:</b>  | No Data      |
| <b>Northing/Long.:</b> | 6110275 AMG zone: 55     | <b>Runoff:</b>    | Slow         |
| <b>Easting/Lat.:</b>   | 517550 Datum: AGD66      | <b>Drainage:</b>  | Well drained |

**Geology**

|                      |         |                                    |          |
|----------------------|---------|------------------------------------|----------|
| <b>ExposureType:</b> | No Data | <b>Conf. Sub. is Parent. Mat.:</b> | Probable |
| <b>Geol. Ref.:</b>   | Sgc     | <b>Substrate Material:</b>         | Granite  |

**Land Form**

|                         |           |                        |           |
|-------------------------|-----------|------------------------|-----------|
| <b>Rel/Slope Class:</b> | No Data   | <b>Pattern Type:</b>   | Low hills |
| <b>Morph. Type:</b>     | Crest     | <b>Relief:</b>         | No Data   |
| <b>Elem. Type:</b>      | Hillcrest | <b>Slope Category:</b> | No Data   |
| <b>Slope:</b>           | 1 %       | <b>Aspect:</b>         | 0 degrees |

**Surface Soil Condition (dry):** Firm

**Erosion:**

**Soil Classification**

|  |                                |                                |           |
|--|--------------------------------|--------------------------------|-----------|
| <b>Australian Soil Classification:</b> | N/A                            | <b>Mapping Unit:</b>           | N/A       |
| <b>ASC Confidence:</b>                 | Confidence level not specified | <b>Principal Profile Form:</b> | Gn2.11    |
|  |                                | <b>Great Soil Group:</b>       | Red earth |

**Site Disturbance:** Complete clearing. Pasture, native or improved, but never cultivated

**Vegetation:**

**Surface Coarse Fragments:** 0-2%, fine gravelly, 2-6mm, subangular, Quartz

**Profile Morphology**

|   |              |  |
|---|--------------|--|
| A | 0 - 0.1 m    | Dark reddish brown (5YR3/4-Moist); ; Coarse sandy clay loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Few (<1 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Dry; Firm consistence; Slightly plastic; Moderately sticky; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Gradual change to -                                   |
| B | 0.1 - 0.75 m | Dark red (2.5YR3/6-Moist); ; Coarse sandy light clay; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Few (<1 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Dry; Weak consistence; Moderately plastic; Very sticky; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Field pH 6 (Raupach); Few, fine (1-2mm) roots; |

**Morphological Notes**

**Observation Notes**

Pit to 30cm, auger to 75cm.

**Site Notes**

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Exchangeable Cations |    |   | Exchangeable | CEC     | ECEC | ESP |
|-------|----|--------|----------------------|----|---|--------------|---------|------|-----|
| m     |    | dS/m   | Ca                   | Mg | K | Na           | Acidity |      |     |
|       |    |        |                      |    |   | Cmol (+)/kg  |         |      | %   |

| Depth | CaCO3 | Organic | Avail. | Total | Total | Total | Bulk    | Particle |    | Size | Analysis |      |
|-------|-------|---------|--------|-------|-------|-------|---------|----------|----|------|----------|------|
| m     | %     | C       | P      | P     | N     | K     | Density | GV       | CS | FS   | Silt     | Clay |
|       |       | %       | mg/kg  | %     | %     | %     | Mg/m3   |          |    | %    |          |      |

| Depth | COLE | Gravimetric/Volumetric Water Contents |          |         |         |       |       |        | K sat | K unsat |
|-------|------|---------------------------------------|----------|---------|---------|-------|-------|--------|-------|---------|
|       |      | Sat.                                  | 0.05 Bar | 0.1 Bar | 0.5 Bar | 1 Bar | 5 Bar | 15 Bar |       |         |
| m     |      |                                       |          |         | g/g -   | m3/m3 |       |        | mm/h  | mm/h    |

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Laboratory Analyses Completed for this profile