

**Project Name:** BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling  
**Project Code:** Wagga\_SLM **Site ID:** BD80 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

**Site Information**

|                        |                       |                   |            |
|------------------------|-----------------------|-------------------|------------|
| <b>Desc. By:</b>       | McKane, Dermot        | <b>Locality:</b>  |            |
| <b>Date Desc.:</b>     | 15/07/93              | <b>Elevation:</b> | 211 metres |
| <b>Map Ref.:</b>       | Sheet No. : 8327 DGPS | <b>Rainfall:</b>  | No Data    |
| <b>Northing/Long.:</b> | 6119838 AMG zone: 55  | <b>Runoff:</b>    | No Data    |
| <b>Easting/Lat.:</b>   | 534713 Datum: AGD66   | <b>Drainage:</b>  | No Data    |

**Geology**

|                      |                       |                                    |         |
|----------------------|-----------------------|------------------------------------|---------|
| <b>ExposureType:</b> | Undisturbed soil core | <b>Conf. Sub. is Parent. Mat.:</b> | No Data |
| <b>Geol. Ref.:</b>   | No Data               | <b>Substrate Material:</b>         | No Data |

**Land Form**

|                         |         |                        |             |
|-------------------------|---------|------------------------|-------------|
| <b>Rel/Slope Class:</b> | No Data | <b>Pattern Type:</b>   | No Data     |
| <b>Morph. Type:</b>     | No Data | <b>Relief:</b>         | No Data     |
| <b>Elem. Type:</b>      | No Data | <b>Slope Category:</b> | No Data     |
| <b>Slope:</b>           | 2 %     | <b>Aspect:</b>         | 180 degrees |

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

|   |  |                                |     |
|---|--|--------------------------------|-----|
| <b>Australian Soil Classification:</b>  |  | <b>Mapping Unit:</b>           | N/A |
| Mottled Eutrophic Yellow Dermosol Medium Non-gravelly<br>Loamy Clayey Very deep |  | <b>Principal Profile Form:</b> | N/A |
| <b>ASC Confidence:</b>  |  | <b>Great Soil Group:</b>       | N/A |
| Confidence level not specified  |  |                                |     |

**Site Disturbance:**

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

|     |               |   |
|-----|---------------|---|
| A1  | 0 - 0.12 m    | Reddish brown (5YR4/3-Moist); ; Loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Many, very fine (0-1mm) roots; Clear change   |
| B1  | 0.12 - 0.66 m | Reddish yellow (7.5YR6/8-Moist); Mottles, 2-10% , Distinct; Light clay; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Few, very fine (0-1mm) roots; Gradual change to -  |
| B21 | 0.66 - 1.48 m | Brownish yellow (10YR6/6-Moist); Mottles, 20-50% , Distinct; Mottles, 20-50% , Distinct; Light clay; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Many cutans, >50% of ped faces or walls coated; Common (10 - 20 %), Manganiferous, , ; Few, very fine (0-1mm) roots; Clear change to - |
| B22 | 1.48 - 2 m    | Yellow (10YR7/6-Moist); Mottles, 20-50% , Distinct; Light clay; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Many cutans, >50% of ped faces or walls coated; Common (10 - 20 %), Manganiferous, , ;  |

**Morphological Notes**

**Observation Notes**

**Site Notes**

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**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 - 0.12    | 6.22A | 0.081A | 5J    | 0.77            | 0.86      | 0.06        |                      | 7.8I  |      | 0.77 |
| 0.12 - 0.66 | 6.59A | 0.024A | 4.6J  | 2.1             | 0.23      | 0.09        |                      | 8.2I  |      | 1.10 |
| 0.66 - 1.48 | 7.07A | 0.053A | 7.3J  | 5.8             | 0.66      | 0.14        |                      | 14.9I |      | 0.94 |
| 1.48 - 2    | 8.36A | 0.054A | 11.3J | 10.5            | 0.85      | 0.5         |                      | 22.3I |      | 2.24 |

| Depth       | CaCO <sub>3</sub> | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density      | Particle GV | Size CS | Analysis FS | Silt | Clay |
|-------------|-------------------|-----------|----------|---------|---------|---------|-------------------|-------------|---------|-------------|------|------|
| m           | %                 | %         | mg/kg    | %       | %       | %       | Mg/m <sup>3</sup> |             |         | %           |      |      |
| 0 - 0.12    |                   | 1.36C     |          |         |         |         |                   |             | 24.1I   |             | 19.3 | 56.6 |
| 0.12 - 0.66 |                   | 0.21C     |          |         |         |         |                   |             | 39.7I   |             | 11.9 | 48.4 |
| 0.66 - 1.48 |                   | 0.12C     |          |         |         |         |                   |             | 60I     |             | 10.8 | 29.2 |
| 1.48 - 2    |                   | 0.09C     |          |         |         |         |                   |             | 66.9I   |             | 10.1 | 23   |

[illegible]

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**Laboratory Analyses Completed for this profile**

|          |  |
|----------|--|
| 15F1_CA  | Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts |
| 15F1_K   | Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts                 |
| 15F1_MG  | Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts                 |
| 15F1_NA  | Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts                 |
| 15F3     | CEC by 0.01M silver-thiourea (AgTU)+   |
| 15L1     | Base saturation percentage (BSP)   |
| 15N1     | Exchangeable sodium percentage (ESP)   |
| 3A1      | EC of 1:5 soil/water extract   |
| 4A1      | pH of 1:5 soil/water suspension  |
| 6B3      | Total organic carbon - high frequency induction furnace, infrared                      |
| P10_NR_C | Clay (%) - Not recorded  |
| P10_NR_S | Sand (%) - Not recorded  |
| P10_NR_Z | Silt (%) - Not recorded  |