

**Project Name:** Acids Soils in South Eastern Australia  
**Project Code:** AcidSoils **Site ID:** AN18 **Observation ID:** 1  
**Agency Name:** CSIRO Land and Water (ACT)

#### Site Information

|                        |                           |                   |                         |
|------------------------|---------------------------|-------------------|-------------------------|
| <b>Desc. By:</b>       | G. W. Geeves              | <b>Locality:</b>  |                         |
| <b>Date Desc.:</b>     | 23/06/88                  | <b>Elevation:</b> | 325 metres              |
| <b>Map Ref.:</b>       | Sheet No. : 8326 1:100000 | <b>Rainfall:</b>  | No Data                 |
| <b>Northing/Long.:</b> | 6069800 AMG zone: 55      | <b>Runoff:</b>    | Moderately rapid        |
| <b>Easting/Lat.:</b>   | 523700 Datum: AGD66       | <b>Drainage:</b>  | Moderately well drained |

#### Geology

|                      |              |                                    |         |
|----------------------|--------------|------------------------------------|---------|
| <b>ExposureType:</b> | Auger boring | <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> | Undulating low hills 30-90m 3-10% | <b>Pattern Type:</b>   | Low hills          |
| <b>Morph. Type:</b>     | Mid-slope                         | <b>Relief:</b>         | 50 metres          |
| <b>Elem. Type:</b>      | Hillslope                         | <b>Slope Category:</b> | Very gently sloped |
| <b>Slope:</b>           | 2 %                               | <b>Aspect:</b>         | 270 degrees        |

#### Surface Soil Condition (dry):

#### Erosion:

#### Soil Classification

|  |  |                                |        |
|--|--|--------------------------------|--------|
| <b>Australian Soil Classification:</b> |  | <b>Mapping Unit:</b>           | N/A    |
| N/A                                    |  | <b>Principal Profile Form:</b> | GN2.22 |
| <b>ASC Confidence:</b>                 |  | <b>Great Soil Group:</b>       | N/A    |
| Confidence level not specified         |  |                                |        |

**Site Disturbance:** Complete clearing. Pasture, native or improved, cultivated at some stage

#### Vegetation:

Tall Strata - Sod grass, <0.25m, Closed or dense. \*Species includes - None Recorded

**Surface Coarse Fragments:** No surface coarse fragments

#### Profile Morphology

|     |             |   |
|-----|-------------|---|
| Ap  | 0 - 0.1 m   | Brown (10YR4/3-Moist); ; Sandy clay loam, fine sandy; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules;                                     |
| A3  | 0.1 - 0.3 m | Strong brown (7.5YR4/6-Moist); ; Clay loam, fine sandy; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules;                                     |
| B21 | 0.3 - 0.5 m | Yellowish brown (10YR5/6-Moist); ; Sandy clay; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules;  |
| B22 | 0.5 - 0.8 m | Brownish yellow (10YR6/8-Moist); , 2.5YR48, 2-10% , 15-30mm, Distinct; Coarse sandy clay; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; |

#### Morphological Notes

#### Observation Notes

Upper midslope 300m to drainage line. Grazing paddock, good cover grasses, some clover. Rolling hills 50m relief, 25m box trees. Similar to 16 & 17. Yellow Earth? Yellow Podzolic? No strong texture contrast. Podzolic? Yellow Earth.

#### 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  |         |      |     |
| 0 - 0.1   | 4.51B |        | 3.51K                | 0.82 | 0.69 | 0.08         |         |      |     |
| 0.1 - 0.2 | 4.28B |        | 2.63K                | 0.76 | 0.28 | 0.08         |         |      |     |
| 0.2 - 0.3 | 4.97B |        | 3.41K                | 1.37 | 0.18 | 0.1          |         |      |     |
| 0.3 - 0.4 | 5.4B  |        | 3.36K                | 2.24 | 0.2  | 0.13         |         |      |     |
| 0.4 - 0.5 | 5.49B |        |                      |      |      |              |         |      |     |
| 0.7 - 0.8 | 5.87B |        |                      |      |      |              |         |      |     |

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**Laboratory Analyses Completed for this profile**

|          |  |
|----------|--|
| 13_NR_AL | Extractable Al(%) - Not recorded                                 |
| 13_NR_MN | Extractable Mn(%) - Not recorded                                 |
| 15_NR_AL | Exchangeable aluminium - method not recorded                     |
| 15_NR_CA | Exch. basic cations (Ca++) - 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 |
| 4B1      | pH of 1:5 soil/0.01M calcium chloride extract - direct           |