**Project Name:** **Acids Soils in South Eastern Australia**
**Project Code:** **AcidSoils** **Site ID:** **AN177** **Observation ID:** **1**
**Agency Name:** **CSIRO Land and Water (ACT)**

## Site Information

**Desc. By:** G. W. Geeves
**Date Desc.:** 11/10/88
**Map Ref.:** Sheet No. : 8328 1:100000
**Northing/Long.:** 6140500 AMG zone: 55
**Easting/Lat.:** 504900 Datum: AGD66
**Locality:** Ganmain
**Elevation:** 200 metres
**Rainfall:** No Data
**Runoff:** Moderately rapid
**Drainage:** Moderately well drained

## Geology

**ExposureType:** Auger boring
**Geol. Ref.:** No Data
**Conf. Sub. is Parent. Mat.:** No Data
**Substrate Material:** No Data

## Land Form

**Rel/Slope Class:** Gently undulating rises 9-30m 1-3%
**Morph. Type:** Flat
**Elem. Type:** Hillcrest
**Slope:** 1 %
**Pattern Type:** Rises
**Relief:** 5 metres
**Slope Category:** Very gently sloped
**Aspect:** 360 degrees

## Surface Soil Condition (dry):

## Erosion:

## Soil Classification

**Australian Soil Classification:**
N/A
**ASC Confidence:**
Confidence level not specified
**Mapping Unit:** N/A
**Principal Profile Form:** Dr2.11
**Great Soil Group:** N/A

**Site Disturbance:** Cultivation. Rainfed

**Vegetation:**

Tall Strata - Sod grass, 0.51-1m, Closed or dense. *Species includes - None Recorded

**Surface Coarse Fragments:** 10-20%, coarse gravelly, 20-60mm, subangular, Quartz

## Profile Morphology

| | | |
|---|---|---|
| Ap | 0 - 0.1 m | Yellowish red (5YR4/6-Moist); ; Coarse sandy loam; 20-50%, coarse gravelly, 20-60mm, coarse fragments; |
| B1 | 0.1 - 0.2 m | Red (2.5YR4/6-Moist); ; Coarse sandy clay; 20-50%, coarse gravelly, 20-60mm, coarse fragments; |
| B21 | 0.2 - 0.5 m | Red (10R4/6-Moist); ; Coarse sandy clay; |

## Morphological Notes

| | |
|---|---|
| Ap | Stoney |
| B1 | Stoney |
| B21 | Stoney |

## Observation Notes

Stoney red duplex soil RBE? Or Red Podzolic? On purple siltstone

## Site Notes

Owners J.A. and A.J. Graham at Inverness RMB 452 Good lupin crop 50 m from small rise crest

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## Laboratory Test Results:

| Depth | pH | 1:5 EC | Exchangeable Cations | | | | Exchangeable Acidity | CEC | ECEC | ESP |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Ca | Mg | K | Na | | | | |
| m | | dS/m | Cmol (+)/kg | | | | | | | % |
| 0 - 0.1 | 4.66B | | 3.63K | 1.06 | 0.38 | | | | | |
| 0.1 - 0.2 | 4.85B | | 4.18K | 1.91 | 0.26 | 0.03 | | | | |
| 0.2 - 0.3 | 5.12B | | 5.21K | 3.32 | 0.23 | 0.13 | | | | |
| 0.3 - 0.4 | 4.76B | | 5.12K | 3.93 | 0.25 | 0.07 | | | | |
| 0.4 - 0.5 | 4.3B | | | | | | | | | |

| Depth | CaCO3 | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density | Particle Size Analysis | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | GV | CS | FS | Silt | Clay |
| m | % | % | mg/kg | % | % | % | Mg/m3 | | | % | | |
| 0 - 0.1 | | | | | | | | | | | | |
| 0.1 - 0.2 | | | | | | | | | | | | |
| 0.2 - 0.3 | | | | | | | | | | | | |
| 0.3 - 0.4 | | | | | | | | | | | | |
| 0.4 - 0.5 | | | | | | | | | | | | |

| 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 |
| 0 - 0.1 | | | | | | | | | |
| 0.1 - 0.2 | | | | | | | | | |
| 0.2 - 0.3 | | | | | | | | | |
| 0.3 - 0.4 | | | | | | | | | |
| 0.4 - 0.5 | | | | | | | | | |

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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 |