Project Name: Acids Soils in South Eastern Australia

Project Code: AcidSoils Site ID: AN89 Observation ID: 1

Agency Name: CSIRO Land and Water (ACT)

Site Information

Desc. By: G. W. Geeves Locality:

Date Desc.: Elevation: 09/08/88 260 metres Sheet No.: 8328 1:100000 Map Ref.: Rainfall: No Data Northing/Long.: 6160200 AMG zone: 55 Runoff: Moderately rapid 522000 Datum: AGD66 Moderately well drained Easting/Lat.: Drainage:

Geology

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

Land Form

Rel/Slope Class:Undulating plains <9m 3-10%</th>Pattern Type:RisesMorph. Type:Upper-slopeRelief:10 metresElem. Type:HillslopeSlope Category:Very gently slopedSlope:1 %Aspect:330 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AN/APrincipal Profile Form:DR2.21ASC Confidence:Great Soil Group:N/A

Confidence level not specified

Site Disturbance: Cultivation. Rainfed

Vegetation:

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

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

Profile Morphology

A1 0 - 0.1 m Dark reddish brown (5YR3/3-Moist); ; Sandy loam; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments;

A2 0.1 - 0.2 m Red (2.5YR4/6-Moist); ; Sandy clay loam; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments;

B21 0.2 - 0.4 m Red (2.5YR4/6-Moist); ; Sandy clay; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments;

B22 0.4 - 0.8 m Dark yellowish brown (10YR4/6-Moist); ; Clay loam; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments;

Morphological Notes

Observation Notes

Grazing paddock, weeds (lambs tongue and raddish) >>clover=grass. Near top of rise which may be quartzite ridge. Gradational? Duplex? Possible RBE. Sand throughout profile, no carbonate. Red Podzolic.

Site Notes

Coolamon

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Eve | hangeable | Cations | | Exchangeable | CEC | ECEC | ESP |
|--|--|-------------------|--------------------------------|------------------------------|-----------------------------|---------------------|--------------------------|-----|----------|-----------------------|
| т | рп | dS/m | | Mg | K | Na Cmol (+ | Acidity | CEC | LCLC | % % |
| 0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.5 0.7 - 0.8 | 4.55B 4.43B 4.73B 4.92B 5.23B 5.46B | | 2.94K 4.4K 4.29K 5.2K | 0.91 1.82 2.65 3.96 | 0.79 0.64 0.6 0.66 | 0.01 0.08 0.1 | | | | |
| Depth m | CaCO3 | Organic C % | Avail. P mg/kg | Total P % | Total N % | Total K % | Bulk Density Mg/m3 | | cle Size | Analysis Silt Clay |
| 0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.5 0.7 - 0.8 | | | | | | | | | | |
| Depth | COLE | | Grav | imetric/Vo | olumetric V | Vater Con | tents | | K sat | K unsat |
| m | | Sat. | 0.05 Bar | 0.1 Bar g/ | 0.5 Bar g - m3/m | 1 Bar 3 | 5 Bar 15 | Bar | mm/h | mm/h |
| 0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.5 0.7 - 0.8 | | | | | | | | | | |

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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

Exchangeable aluminium - method not recorded Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded Exch. basic cations (K++) - meq per 100g of soil - Not recorded Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded Exch. basic cations (Na++) - meq per 100g of soil - Not recorded pH of 1:5 soil/0.01M calcium chloride extract - direct 15_NR_CA 15_NR_K 15_NR_MG 15_NR_NA

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