Project Name: Acids Soils in South Eastern Australia

Project Code: AcidSoils Site ID: AV50 Observation ID: 1

Agency Name: CSIRO Land and Water (ACT)

Site Information

Desc. By: C.J. Chartres Locality:

Date Desc.: 03/06/88 Elevation: 140 metres Sheet No.: 8025 1:100000 Map Ref.: Rainfall: No Data 6006600 AMG zone: 55 Runoff: Northing/Long.: Moderately rapid 407700 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: Gently undulating rises 9-30m Pattern Type: Rises

1-3%

Morph. Type:Lower-slopeRelief:10 metresElem. Type:FootslopeSlope Category:Very gently slopedSlope:2 %Aspect:315 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A N/A Principal Profile Form: DR ASC Confidence: Great Soil Group: 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: 2-10%, medium gravelly, 6-20mm, subangular, Quartz

Profile Morphology

Ap 0 - 0.12 m Dark brown (7.5YR3/4-Moist); ; Loam (Heavy); Very few (0 - 2 %), Ferruginous, Coarse (6 - 20

mm), Nodules;

B1 0.12 - 0.4 m Yellowish red (5YR4/6-Moist); ; Light medium clay;

B21 0.4 - 0.6 m Red (2.5YR5/8-Moist); Yellowish red (5YR5/8-Moist); ; Medium clay;
 B22 0.6 - 0.8 m Red (2.5YR5/6-Moist); Yellowish red (5YR5/6-Moist); ; Medium clay;

Morphological Notes

B22 Moderate Effervescence

Observation Notes

Beattie. No lime. Slope 2 degrees to W. Grass pasture, not cropped for several years. Low hills to S. appear to be fine grained siliceous sediments? Few 10cm+ vein quartz pebbles on surface. 10m+ relief to S. Typical RB Earth.

Site Notes

Telford

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Laboratory Test Results:

| Laboratory | rest Re | suits: | | | | | | | | |
|--|--|-------------------|----------------------------------|---------------------------------|------------------------------|------------------------------|----------------------------|-----------|------------|-----------------------|
| Depth | рН | 1:5 EC | | hangeable Mg | Cations K | Na | Exchangeable Acidity | CEC | ECEC | ESP |
| m | | dS/m | | J | | Cmol (+ | | | | % |
| 0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.5 0.7 - 0.8 | 5.03B 6.34B 7.26B 7.78B 7.89B 7.99B | | 5.41K 8.57K 8.8K 10.46K | 4.28 10.31 13.01 12.89 | 0.98 1.22 1.17 1.14 | 0.78 2.43 3.34 4.07 | | | | |
| Depth m | CaCO3 | Organic C % | Avail. P mg/kg | Total P % | Total N % | Tota K % | I Bulk Density Mg/m3 | Par GV | ticle 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/V | olumetric V | Vater Cor | ntents | | K sat | K unsat |
| m | | Sat. | 0.05 Bar | | 0.5 Bar /g - m3/m | 1 Bar 3 | 5 Bar 15 i | 3ar | 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 |

Extractable Min(%) - 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