Project Name: Acids Soils in South Eastern Australia

Project Code: AcidSoils Site ID: AN3 Observation ID: 1

Agency Name: CSIRO Land and Water (ACT)

Site Information

Desc. By: G. W. Geeves Locality:

 Date Desc.:
 21/06/88
 Elevation:
 225 metres

 Map Ref.:
 Sheet No.: 8326
 1:100000
 Rainfall:
 No Data

 Northing/Long.:
 6060800 AMG zone: 55
 Runoff:
 Slow

Easting/Lat.: 503800 Datum: AGD66 Drainage: Moderately well drained

Geology

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

Land Form

 Rel/Slope Class:
 Level plain <9m <1%</th>
 Pattern Type:
 Plain

 Morph. Type:
 Flat
 Relief:
 3 metres

 Elem. Type:
 Plain
 Slope Category:
 Level

 Slope:
 0.2 %
 Aspect:
 No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AN/APrincipal Profile Form:DR2.42ASC 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: No surface coarse fragments

Profile Morphology

Ap 0 - 0.08 m Dark brown (7.5YR3/4-Moist); ; Loamy fine sand;

A2 0.08 - 0.15 m Strong brown (7.5YR5/6-Moist); Pink (7.5YR7/4-Dry); ; Loamy fine sand; Very few (0 - 2 %),

Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm),

Nodules;

B21 0.15 - 0.4 m Red (2.5YR4/7-Moist); , 10YR64, 2-10% , 0-5mm, Distinct; Light medium clay;

B22 0.4 - 0.8 m Yellowish brown (10YR5/8-Moist); ; Heavy clay;

Morphological Notes

A2 Bleached A2

B22 Comm. soft small Mn conc. rounded, no CO3.

Observation Notes

Undulating plain on slight rise, 200m from small ck, 2km from hills. Flat grazing pdck, sorrel, grass & clover, 20m box trees. No erosion evident, no coarse frag. On bench above drainage line? RBE? Bleached A2, duplex, no CO3, Red Podzolic.

Site Notes

Culcairn

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Laboratory Test Results:

Laboratory Test Results:										
Depth	pН	1:5 EC		hangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m		-		Cmol (+)/kg				%
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.5 0.7 - 0.8	4.32B 4.23B 4.6B 4.82B 5.18B 6.75B		2.86K 1.14K 4.03K 3.68K	0.76 0.51 5.19 7.35	0.6 0.29 0.45 0.6	0.08 0.05 0.38 0.76				
Depth m	CaCO3	Organic C %	Avail. P mg/kg	Total P %	Total N %	Tota K %	al Bulk Density Mg/m3		ticle Size CS FS %	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 Co	ntents		K sat	K unsat
m		Sat.	0.05 Bar		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

4B1