Project Name: **Acids Soils in South Eastern Australia**
Project Code: **AcidSoils** **Site ID:** **AN246** **Observation ID:** **1**
Agency Name: **CSIRO Land and Water (ACT)**

Site Information

Desc. By: G. W. Geeves
Date Desc.: 19/05/89
Map Ref.: Sheet No. : 8326 1:100000
Northing/Long.: 6061500 AMG zone: 55
Easting/Lat.: 531800 Datum: AGD66
Locality: Holbrook
Elevation: 340 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: No Data
Morph. Type: Lower-slope
Elem. Type: Hillslope
Slope: 5 %
Pattern Type: Low hills
Relief: 30 metres
Slope Category: Gently inclined
Aspect: 45 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: Dr3.22
Great Soil Group: N/A

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	Dark reddish brown (5YR3/3-Moist); ; Fine sandy loam; 0-2%, fine gravelly, 2-6mm, subangular, coarse fragments; Gradual change to -
A2	0.1 - 0.3 m	Yellowish red (5YR4/6-Moist); ; Sandy clay loam, fine sandy; 0-2%, fine gravelly, 2-6mm, subangular, coarse fragments; Sharp change to -
B21	0.3 - 0.7 m	Red (2.5YR4/6-Moist); ; Sandy clay; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Gradual change to -
B22	0.7 - 0.8 m	Strong brown (7.5YR4/6-Moist); , 2.5YR46, 10-20% , 5-15mm, Distinct; Sandy clay; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules;

Morphological Notes

Observation Notes

Site Notes

Very thick growth of grasses and clover in grazing paddock.

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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	4.46B		2.15K	0.89	1.2	0.07				
0.1 - 0.2	4.28B		1.13K	0.48	0.99	0.08				
0.2 - 0.3	4.31B		1.02K	0.38	0.84	0.09				
0.3 - 0.4	4.78B		2.29K	0.74	1.1	0.01				
0.4 - 0.5	5.34B									
0.7 - 0.8	5.89B									

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												
0.7 - 0.8												

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									
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
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