Project Name: **Acids Soils in South Eastern Australia**
Project Code: **AcidSoils** **Site ID:** **AN15** **Observation ID:** **1**
Agency Name: **CSIRO Land and Water (ACT)**

Site Information

Desc. By: G. W. Geeves
Date Desc.: 23/06/88
Map Ref.: Sheet No. : 8326 1:100000
Northing/Long.: 6049800 AMG zone: 55
Easting/Lat.: 529200 Datum: AGD66
Locality:
Elevation: 270 metres
Rainfall: No Data
Runoff: Slow
Drainage: Imperfectly 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: Lower-slope
Elem. Type: Hillslope
Slope: 1.5 %
Pattern Type: Rises
Relief: 30 metres
Slope Category: Very gently sloped
Aspect: 290 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: DY2.42
Great Soil Group: N/A

Site Disturbance:

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 - 0.12 m	Brown (10YR4/3-Moist); ; Silty loam; 0-2%, fine gravelly, 2-6mm, subangular, Other, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Concretions; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Concretions;
A2	0.12 - 0.3 m	Pale brown (10YR6/3-Moist); Light grey (10YR7/2-Dry); ; Clay loam, fine sandy; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Concretions; Common (10 - 20 %), Ferruginous, Medium (2 -6 mm), Concretions;
B2	0.3 - 0.8 m	Brownish yellow (10YR6/6-Moist); , 2.5YR48, 20-50% , 0-5mm, Faint; Light clay; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Concretions; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Concretions; Diffuse change to -

Morphological Notes

A2	Bleached A2.
B2	Mn nodules present, small, frequent.

Observation Notes

Pasture paddock, good cover grasses & clovers. Simple lower slope off gentle rolling hills. No erosion evident. Relief 30m. J.Emmerson. Pale A2, texture contrast. Yellow Podzolic.

Site Notes

Holbrook

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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	4.36B		1.92K	0.62	0.9	0.12				
0.1 - 0.2	4.15B		0.82K	0.23	0.36	0.08				
0.2 - 0.3	4.66B		1.23K	0.34	0.21	0.12				
0.3 - 0.4	5.45B		1.64K	0.97	0.14	0.19				
0.4 - 0.5	5.57B									
0.7 - 0.8	6.16B									

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