Project Name: **Acids Soils in South Eastern Australia**
Project Code: **AcidSoils** **Site ID:** **AN63** **Observation ID:** **1**
Agency Name: **CSIRO Land and Water (ACT)**

Site Information

Desc. By: G. W. Geeves
Date Desc.: 28/07/88
Map Ref.: Sheet No. : 8328 1:100000
Northing/Long.: 6147300 AMG zone: 55
Easting/Lat.: 513400 Datum: AGD66
Locality:
Elevation: 210 metres
Rainfall: No Data
Runoff: Moderately rapid
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 plains <9m 1-3%
Morph. Type: Mid-slope
Elem. Type: Plain
Slope: 2 %
Pattern Type: Plain
Relief: 5 metres
Slope Category: Very gently sloped
Aspect: 0 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: DR2.13
Great Soil Group: N/A

Site Disturbance: Cultivation. Rainfed

Vegetation:

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Fine sandy loam; 2-10%, fine gravelly, 2-6mm, subrounded, Other, coarse fragments;
A2	0.1 - 0.3 m	Dark reddish brown (5YR3/4-Moist); Reddish brown (5YR5/4-Dry); ; Coarse sandy loam; 0-2%, fine gravelly, 2-6mm, subrounded, Other, coarse fragments;
B2	0.3 - 0.6 m	Reddish brown (2.5YR4/4-Moist); ; Coarse sandy clay; 0-2%, fine gravelly, 2-6mm, subrounded, Other, coarse fragments;
B22	0.6 - 0.8 m	Yellowish red (5YR4/6-Moist); ; Sandy clay; 0-2%, fine gravelly, 2-6mm, subangular, coarse fragments;

Morphological Notes

A2 Not bleached.
B22 1cm pieces of carbonate at 70cm, white.

Observation Notes

Cropping paddock in pasture phase, weeds>grasses>clover. Simple midslope of undulating rises. Carbonate at 70cm. Sandy Red Brown Earth.

Site Notes

Coolamon

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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	4.35B		2.81K	1.27	0.81	0.13				
0.1 - 0.2	4.61B		3.04K	2.51	0.62	0.29				
0.2 - 0.3	5.17B		4.58K	6.47	0.85	1.11				
0.3 - 0.4	6.25B		3.11K	5.2	0.47	1.16				
0.4 - 0.5	6.73B									
0.7 - 0.8	7.5B									

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