

Project Name: Acids Soils in South Eastern Australia
Project Code: AcidSoils **Site ID:** AN86 **Observation ID:** 1
Agency Name: CSIRO Land and Water (ACT)

Site Information

Desc. By:	G. W. Geeves	Locality:	
Date Desc.:	09/08/88	Elevation:	220 metres
Map Ref.:	Sheet No. : 8328 1:100000	Rainfall:	No Data
Northing/Long.:	6161800 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	510200 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%	Pattern Type:	Rises
Morph. Type:	Simple-slope	Relief:	3 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	1 %	Aspect:	90 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	DR2.13
		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

A1	0 - 0.1 m	Dark reddish brown (5YR3/2-Moist); ; Clay loam, fine sandy; 0-2%, fine gravelly, 2-6mm, rounded, coarse fragments;
B1	0.1 - 0.2 m	Dark reddish brown (5YR3/2-Moist); ; Sandy medium clay; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments;
B21	0.2 - 0.6 m	Red (2.5YR4/6-Moist); ; Sandy medium clay; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments;
B22	0.6 - 0.8 m	Yellowish red (5YR4/6-Moist); ; Sandy light clay; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Concretions;

Morphological Notes

B1	Mixed Horizon?
B22	Common medium carbonate concretions.

Observation Notes

Grazing paddock, grasses>weeds=clover, few possible gilgais nearby. Probably duplex, like RBE, but with no A2 and very shallow B horizon as it has been ploughed too deeply. Carbonate at 60cm.

Site Notes

Coolamon

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.1	4.56B		6.12K	4.01	0.84	0.92			
0.1 - 0.2	4.63B		7.3K	8.35	0.81	2.89			
0.2 - 0.3	5.43B		6.16K	9.78	0.83	4.56			
0.3 - 0.4	6.11B		5.1K	10.89	0.97	6.62			
0.4 - 0.5	6.68B								
0.7 - 0.8	7.46B								

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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_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