

Project Name: Acids Soils in South Eastern Australia
Project Code: AcidSoils **Site ID:** AN198 **Observation ID:** 1
Agency Name: CSIRO Land and Water (ACT)

Site Information

Desc. By:	G. W. Geeves	Locality:	Marrar
Date Desc.:	15/05/89	Elevation:	290 metres
Map Ref.:	Sheet No. : 8328 1:100000	Rainfall:	No Data
Northing/Long.:	6146900 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	528500 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:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Mid-slope	Relief:	20 metres
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	3 %	Aspect:	330 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:	Gn2.12
		Great Soil Group:	N/A

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments:

Profile Morphology

Ap	0 - 0.1 m	Dark reddish brown (2.5YR3/4-Moist); ; Fine sandy loam (Heavy); , , , ; Gradual change to -
B1	0.1 - 0.3 m	Dark red (2.5YR3/6-Moist); ; Silty clay loam; , , , ; Gradual change to -
B21	0.3 - 0.6 m	Dark red (2.5YR3/6-Moist); ; Clay loam; , , , ; Gradual change to -
B22	0.6 - 0.8 m	Yellowish red (5YR5/6-Moist); ; Clay loam; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules;

Morphological Notes

B22 Soft black Mn concretions

Observation Notes

Gradational/ Uniform reddish profile. Red Earth, yellowing with depth similar to AN193 and AN194 but less texture increase with depth. No carbonate.

Site Notes

Cultivated paddock, evidence of hard surface. Midslope of rolling country 1000m from crest to SE.

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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	4.31B		4.02K	1.09	1.33	0.03			
0.1 - 0.2	4.48B		4.75K	1.24	1.15	0.03			
0.2 - 0.3	5B		5.53K		1.04	1.61			
0.3 - 0.4	5.46B		5.86K		0.97	2.9			
0.4 - 0.5	5.97B								
0.7 - 0.8	5.96B								

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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