

**Project Name:** Acids Soils in South Eastern Australia  
**Project Code:** AcidSoils **Site ID:** AN251 **Observation ID:** 1  
**Agency Name:** CSIRO Land and Water (ACT)

**Site Information**

<b>Desc. By:</b>	G. W. Geeves	<b>Locality:</b>	Ganmain
<b>Date Desc.:</b>	14/06/89	<b>Elevation:</b>	190 metres
<b>Map Ref.:</b>	Sheet No. : 8328 1:100000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6145100 AMG zone: 55	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	502000 Datum: AGD66	<b>Drainage:</b>	Moderately well drained

**Geology**

<b>ExposureType:</b>	Auger boring	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	No Data

**Land Form**

<b>Rel/Slope Class:</b>	Gently undulating rises 9-30m 1-3%	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	10 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	2 %	<b>Aspect:</b>	320 degrees

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	N/A	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	Confidence level not specified	<b>Principal Profile Form:</b>	Gn2.12
		<b>Great Soil Group:</b>	N/A

**Site Disturbance:** Cultivation. Rainfed

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

Ap	0 - 0.1 m	Dark reddish brown (5YR3/4-Moist); ; Sandy loam; Gradual change to -
AB	0.1 - 0.3 m	Dark reddish brown (2.5YR3/4-Moist); ; Sandy clay loam; Gradual change to -
B21	0.3 - 0.6 m	Red (2.5YR4/6-Moist); ; Sandy light clay; Gradual change to -
B22	0.6 - 0.8 m	Red (2.5YR4/6-Moist); , 5YR5/6; Sandy medium clay;

**Morphological Notes**

B22 Mottles Mn and Fe

**Observation Notes**

Gradational Red Earth, evidence of hard surface.

**Site Notes**

Edge of 10 m rise in gentle rolling country.

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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	5.3B		2.52K	0.56	0.9	0.11			
0.1 - 0.2	4.6B		2.57K	0.58	0.55	0.04			
0.2 - 0.3	5.01B		3.28K	0.9	0.49	0.01			
0.3 - 0.4	5.42B		3.79K	1.21	0.47	0.03			
0.4 - 0.5	5.95B								
0.7 - 0.8	6.15B								

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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