

**Project Name:** Acids Soils in South Eastern Australia  
**Project Code:** AcidSoils **Site ID:** AN225 **Observation ID:** 1  
**Agency Name:** CSIRO Land and Water (ACT)

**Site Information**

<b>Desc. By:</b>	G. W. Geeves	<b>Locality:</b>	Junee Reefs
<b>Date Desc.:</b>	17/05/89	<b>Elevation:</b>	290 metres
<b>Map Ref.:</b>	Sheet No. : 8428 1:100000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6156600 AMG zone: 55	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	559800 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>	No Data	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	10 metres
<b>Elem. Type:</b>	Footslope	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	2 %	<b>Aspect:</b>	270 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>	Dy3.12
		<b>Great Soil Group:</b>	N/A

**Site Disturbance:** Cultivation. Rainfed

**Vegetation:**

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

**Surface Coarse Fragments:**

**Profile Morphology**

Ap	0 - 0.2 m	Dark reddish brown (5YR3/3-Moist); ; Fine sandy loam; Sharp change to -
B1	0.2 - 0.4 m	Yellowish red (5YR4/6-Moist); ; Clay loam, sandy; Very few (0 - 2 %), Manganiferous, Medium (2 - 6 mm), Nodules; Clear change to -
B21	0.4 - 0.6 m	Brown (7.5YR5/4-Moist); ; Sandy clay; Common (10 - 20 %), Manganiferous, Coarse (6 - 20 mm), Nodules; Gradual change to -
B22	0.6 - 0.8 m	Brown (7.5YR4/4-Moist); , 2.5YR46, 20-50% , 5-15mm, Distinct; Sandy clay; Very few (0 - 2 %), Manganiferous, Medium (2 - 6 mm), Nodules;

**Morphological Notes**

B22 lighter horizon with Mn nodules

**Observation Notes**

Duplex/gradational reddish brown profile with rough, earthy fabric. Yellowing at depth with lighter horizon and Mn nodules around 40-60 cm otherwise similar to red earth profiles. No CO3. Somewhere between Red/Yellow Earth and Podzolic?

**Site Notes**

Middle of 1800 m. footslope from small hill to east in rolling country. Good cover of forage oats.

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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	Acidity		%
						Cmol (+)/kg			
0 - 0.1	4.67B		4.54K	1.07	0.93				
0.1 - 0.2	4.53B		4.25K	1.19	0.5				
0.2 - 0.3	5.12B		4.34K	1.73	0.37	0.08			
0.3 - 0.4	5.47B		4.28K	2.26	0.28	0.11			
0.4 - 0.5	5.88B								
0.7 - 0.8	6.31B								

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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