

**Project Name:** Acids Soils in South Eastern Australia  
**Project Code:** AcidSoils **Site ID:** AN226 **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>	300 metres
<b>Map Ref.:</b>	Sheet No. : 8428 1:100000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6157200 AMG zone: 55	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	555700 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>	Undulating rises 9-30m 3-10%	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	10 metres
<b>Elem. Type:</b>	Hillcrest	<b>Slope Category:</b>	Level
<b>Slope:</b>	1 %	<b>Aspect:</b>	120 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>	Gn2.11
		<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 - 0.1 m	Yellowish red (5YR4/6-Moist); ; Sandy loam; 10-20%, coarse gravelly, 20-60mm, subangular, Unconsolidated material (unidentified), coarse fragments; Gradual change to -
B1	0.1 - 0.3 m	Yellowish red (5YR4/6-Moist); ; Sandy clay loam; 20-50%, coarse gravelly, 20-60mm, subangular, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Clear change to -
B21	0.3 - 0.6 m	Red (2.5YR4/6-Moist); ; Clay loam, sandy; 20-50%, coarse gravelly, 20-60mm, subangular, coarse fragments; Gradual change to -
B22	0.6 - 0.8 m	Strong brown (7.5YR5/6-Moist); ; Sandy clay; 10-20%, medium gravelly, 6-20mm, subrounded, coarse fragments;

**Morphological Notes**

**Observation Notes**

Gradational red profile yellowing at depth. Earthy fabric and probably hardsetting. No CO3. Red earth with granitic influence similar to other red soil on rises around here. Red Earth/ Podzolic integration?

**Site Notes**

Good cover of clover and weeds in light stubble on crest of ridge between rises.

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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	4.62B		2.22K	0.46	0.76				
0.1 - 0.2	4.36B		1.44K	0.41	0.5				
0.2 - 0.3	4.62B		1.75K	0.64	0.61	0.03			
0.3 - 0.4	4.98B		3.16K	1.59	0.44	0.04			
0.4 - 0.5	5.59B								
0.7 - 0.8	5.77B								

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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