Project Name: **Acids Soils in South Eastern Australia**
Project Code: **AcidSoils** **Site ID:** **AN128** **Observation ID:** **1**
Agency Name: **CSIRO Land and Water (ACT)**

Site Information

Desc. By: G. W. Geeves
Date Desc.: 27/09/88
Map Ref.: Sheet No. : 8327 1:100000
Northing/Long.: 6092900 AMG zone: 55
Easting/Lat.: 530800 Datum: AGD66
Locality:
Elevation: 330 metres
Rainfall: No Data
Runoff: Rapid
Drainage: Moderately well drained

Geology

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

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3-10%
Morph. Type: Lower-slope
Elem. Type: Hillslope
Slope: 4 %
Pattern Type: Low hills
Relief: 40 metres
Slope Category: Gently inclined
Aspect: 90 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: DR2.11
Great Soil Group: Red podzolic soil

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

Ap	0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam; 0-2%, medium gravelly, 6-20mm, Metamorphic rock (unidentified), coarse fragments;
A3	0.1 - 0.2 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam; 0-2%, medium gravelly, 6-20mm, Metamorphic rock (unidentified), coarse fragments;
B1	0.2 - 0.5 m	Yellowish red (5YR4/6-Moist); ; Light clay; 0-2%, medium gravelly, 6-20mm, Metamorphic rock (unidentified), coarse fragments;
B2	0.5 - 0.8 m	Red (2.5YR4/6-Moist); ; Light clay; 0-2%, medium gravelly, 6-20mm, subangular, Metamorphic rock (unidentified), coarse fragments;

Morphological Notes

B1 Gradational colour change B1 to B2.

Observation Notes

Rolling pasture, capeweed>clover>grass, 60m uphill of dam. A3 not quite colour of A2 but paler, red profile, 'earthy look'. No CO3, Red Earth/Red Podzolic Earth Intergrade.

Site Notes

Wagga Wagga

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	4.48B		2.75K	1.04	0.41	0.05				
0.1 - 0.2	4.75B		2.75K	1.29	0.28	0.05				
0.2 - 0.3	4.3B		1.31K	1.4	0.31	0.03				
0.3 - 0.4	3.98B		0.63K	1.26	0.31	0.04				
0.4 - 0.5	3.96B									
0.7 - 0.8	3.9B									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1												
0.1 - 0.2												
0.2 - 0.3												
0.3 - 0.4												
0.4 - 0.5												
0.7 - 0.8												

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3						mm/h	mm/h
0 - 0.1									
0.1 - 0.2									
0.2 - 0.3									
0.3 - 0.4									
0.4 - 0.5									
0.7 - 0.8									

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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