Project Name: **Acids Soils in South Eastern Australia**
Project Code: **AcidSoils** **Site ID:** **AV35** **Observation ID:** **1**
Agency Name: **CSIRO Land and Water (ACT)**

Site Information

Desc. By: C.J. Chartres
Date Desc.: 02/06/88
Map Ref.: Sheet No. : 8025 1:100000
Northing/Long.: 6002100 AMG zone: 55
Easting/Lat.: 400400 Datum: AGD66
Locality:
Elevation: 140 metres
Rainfall: No Data
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

ExposureType: Auger boring
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 0.7 m deep,Non-porous, dense, No Data

Land Form

Rel/Slope Class: Gently undulating rises 9-30m 1-3%
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 3 %
Pattern Type: Rises
Relief: 20 metres
Slope Category: Gently inclined
Aspect: No Data

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: DR
Great Soil Group: N/A

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: 0-2%, coarse gravelly, 20-60mm, subangular, Quartz

Profile Morphology

Ap	0 - 0.12 m	Dark brown (10YR3/3-Moist); ; Loam; 2-10%, coarse gravelly, 20-60mm, angular, Quartz, coarse fragments;
B21	0.12 - 0.3 m	Red (2.5YR4/6-Moist); ; Light clay; 0-2%, cobbly, 60-200mm, angular, Quartz, coarse fragments;
B22	0.3 - 0.5 m	Red (2.5YR4/6-Moist); ; Light clay; 2-10%, fine gravelly, 2-6mm, subangular, coarse fragments;
B23	0.5 - 0.7 m	Red (2.5YR4/6-Moist); ; Light medium clay; 20-50%, medium gravelly, 6-20mm, subangular, Siltstone, coarse fragments;

Morphological Notes

B23 Much fine carbonate efferescence mainly siltstone

Observation Notes

John Cooper grass paddock with clover and last years stubble. Hillside site. Heavier Moira loam (RBE) with siltstone at 60cm.

Site Notes

Tungamah

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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	5.24B		6.57K	3.17	0.99	0.57				
0.1 - 0.2	5.34B		4.79K	7.22	0.94	1.93				
0.2 - 0.3	5.76B		5.42K	10.33	1.19	3.14				
0.3 - 0.4	7.06B		6.38K	14.17	1.42	5.17				
0.4 - 0.5	7.52B									
0.7 - 0.8	7.94B									

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_MN	Extractable Mn(%) - 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