Project Name: Acids Soils in South Eastern Australia

Project Code: AcidSoils Site ID: AN43 Observation ID: 1

Agency Name: CSIRO Land and Water (ACT)

Site Information

Desc. By: G. W. Geeves Locality:

Elevation: Date Desc.: 21/07/88 180 metres Map Ref.: Sheet No.: 8327 1:100000 Rainfall: No Data 6116700 AMG zone: 55 Runoff: Moderately rapid Northing/Long.: 511100 Datum: AGD66 Moderately well drained Easting/Lat.: Drainage:

Geology

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

Land Form

Rel/Slope Class: Gently undulating plains <9m Pattern Type: Plain

1-3%

Morph. Type: Simple-slope Relief: 3 metres

Elem. Type: Hillslope Slope Category: Very gently sloped Slope: 1 % Aspect: 330 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A
N/A Principal Profile Form: GN2.12
ASC Confidence: Great Soil Group: N/A

Confidence level not specified

Site Disturbance: Cultivation. Rainfed

Vegetation:

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1 0 - 0.1 m Dark reddish brown (5YR3/3-Moist); ; Fine sandy loam; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments;

A2 0.1 - 0.3 m Reddish brown (5YR4/4-Moist); Yellowish red (5YR5/6-Dry); ; Clay loam, fine sandy; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments;

B21 0.3 - 0.6 m Red (2.5YR4/6-Moist); ; Sandy light clay; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments;

B22 0.6 - 0.8 m Yellowish red (5YR5/6-Moist); ; Light clay; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse

fragments;

Morphological Notes

A2 Pale A2.

Observation Notes

Grazing paddock, clover, grasses and old stubble. On the sloping edge of large terrace 3m above Murrumbidgee River floodplain. No carbonate, gradational RE?

Site Notes

Collingullie

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Laboratory Test Results:

Laboratory	Test Re	Suits.								
Depth	рН	1:5 EC		hangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m		_		Cmol (⊦)/kg			%
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.5 0.7 - 0.8	4.78B 4.67B 4.75B 5.3B 5.89B 6.78B		4.8K 3.51K 3.22K 5.77K	1.48 1.49 2.75 8.8	1.71 0.76 0.53 0.95	0.08 0.07 0.11 0.69				
Depth m	CaCO3	Organic C %	Avail. P mg/kg	Total P %	Total N %	Tota K %	l Bulk Density Mg/m3	Par GV	ticle Size	Analysis Silt Clay
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		Grav	imetric/V	olumetric V	Vater Cor	ntents		K sat	K unsat
m		Sat.	0.05 Bar		0.5 Bar 'g - m3/m	1 Bar 3	5 Bar 15	Bar	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

Exchangeable aluminium - method not recorded Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded Exch. basic cations (K++) - meq per 100g of soil - Not recorded Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded Exch. basic cations (Na++) - meq per 100g of soil - Not recorded pH of 1:5 soil/0.01M calcium chloride extract - direct 15_NR_CA 15_NR_K 15_NR_MG 15_NR_NA

4B1