Project Name: Acids Soils in South Eastern Australia

Project Code: AcidSoils Site ID: AN21 Observation ID: 1

Agency Name: CSIRO Land and Water (ACT)

Site Information

Desc. By: G. W. Geeves Locality:

Date Desc.: 23/06/88 Elevation: 310 metres Sheet No.: 8327 1:100000 Map Ref.: Rainfall: No Data Northing/Long.: 6091000 AMG zone: 55 Runoff: Rapid 527500 Datum: AGD66 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: Undulating low hills 30-90m 3- Pattern Type: Low hills

10%

Morph. Type:Mid-slopeRelief:50 metresElem. Type:HillslopeSlope Category:Gently inclinedSlope:8 %Aspect:220 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

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

Confidence level not specified

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

A 0 - 0.2 m Dark reddish brown (5YR3/4-Moist); ; Fine sandy loam; 0-2%, fine gravelly, 2-6mm, subangular, Chert, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules;

A2 0.2 - 0.4 m Red (10R4/8-Moist); ; Sandy clay loam; 0-2%, fine gravelly, 2-6mm, subangular platy, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Diffuse change to -

0.4 - 0.8 m Dark red (10R3/6-Moist); ; Sandy clay; 0-2%, fine gravelly, 2-6mm, subangular platy, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2

%), Ferruginous, Medium (2 -6 mm), Nodules;

Morphological Notes

Observation Notes

Lane eay, good clover pasture. Steep midslope hilly country, 50m relief, gully at foot of slopes. Bright red earthy profile, fairly gradational but showing text. change. Red Earth? Podzolic Red Earth?

Site Notes

B2

Mangoplah

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Laboratory Test Results:

Laboratory	rest 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	4.24B 4.23B 4.65B 5.02B 5.28B 6.04B		2K 1.22K 2.54K 4.63K	0.28 0.2 0.51 1.04	0.47 0.32 0.34 0.44	0.02 0.02 0.03 0.02				
Depth m	CaCO3	Organic C %	Avail. P mg/kg	Total P %	Total N %	Tota K %	l Bulk Density Mg/m3		ticle Size CS FS %	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 Co	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