Project Name: Acids Soils in South Eastern Australia

Project Code: AcidSoils Site ID: AN177 Observation ID: 1

Agency Name: CSIRO Land and Water (ACT)

**Site Information** 

 Desc. By:
 G. W. Geeves
 Locality:
 Ganmain

 Date Desc.:
 11/10/88
 Elevation:
 200 metres

 Map Ref.:
 Sheet No.: 8328
 1:100000
 Rainfall:
 No Data

Northing/Long.: 6140500 AMG zone: 55 Runoff: Moderately rapid
Easting/Lat.: 504900 Datum: AGD66 Drainage: Moderately well drained

**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 rises 9-30m Pattern Type: Rises

1-3%

Morph. Type: Flat Relief: 5 metres

Elem. Type: Hillcrest Slope Category: Very gently sloped Slope: 1 % Aspect: 360 degrees

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/AN/APrincipal Profile Form:Dr2.11ASC Confidence:Great Soil Group:N/A

Confidence level not specified

Site Disturbance: Cultivation. Rainfed

Vegetation:

Tall Strata - Sod grass, 0.51-1m, Closed or dense. \*Species includes - None Recorded

Surface Coarse Fragments: 10-20%, coarse gravelly, 20-60mm, subangular, Quartz

**Profile Morphology** 

Ap 0 - 0.1 m Yellowish red (5YR4/6-Moist); ; Coarse sandy loam; 20-50%, coarse gravelly, 20-60mm, coarse

fragments;

B1 0.1 - 0.2 m Red (2.5YR4/6-Moist); ; Coarse sandy clay; 20-50%, coarse gravelly, 20-60mm, coarse

fragments;

B21 0.2 - 0.5 m Red (10R4/6-Moist); ; Coarse sandy clay;

**Morphological Notes** 

Ap Stoney B1 Stoney B21 Stoney

**Observation Notes** 

Stoney red duplex soil RBE? Or Red Podzolic? On purple siltstone

**Site Notes** 

Owners J.A. and A.J. Graham at Inverness RMB 452 Good lupin crop 50 m from small rise crest

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## **Laboratory Test Results:**

I COLING	Suits.								
рН	1:5 EC			Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
	dS/m		_		Cmol (+	·)/kg			%
4.66B		3.63K	1.06	0.38					
		_	-						
-		-							
_		5.12K	3.93	0.25	0.07				
4.3B									
CaCO3	Organic	Avail.	Total	Total	Tota	l Bulk	Pa	rticle Size	Analysis
	С	Р	Р	N	K	Density	G۷	CS FS	Silt Clay
%	%	mg/kg	%	%	%	Mg/m3		%	
COLE		Grav	imotric/\/	olumotric V	Nator Con	stants		K sat	K unsat
COLL	Sat.						Bar	N Sat	K ulisat
		0.00 _u.				V		mm/h	mm/h
	9H 4.66B 4.85B 5.12B 4.76B 4.3B	dS/m  4.66B 4.85B 5.12B 4.76B 4.3B  CaCO3 Organic C % %	pH 1:5 EC Ca Ca dS/m  4.66B 3.63K 4.85B 4.18K 5.12B 5.21K 4.76B 5.12K 4.3B  CaCO3 Organic Avail. C P % % mg/kg	PH 1:5 EC Ca My Ca My Ca MS Ca MS Ca MS Ca Ca MS Ca Ca MS Ca Ca MS Ca	pH         1:5 EC dS/m         Exchangeable Cations Mg         Cations K           4.66B 4.85B 4.18K 1.91 0.26 5.12B 5.21K 3.32 0.23 4.76B 4.3B         5.21K 3.93 0.25           CaCO3 Organic C P P P N mg/kg %         Avail. Total Total N mg/kg %         Total N mg/kg %           CaCO3 Sat.         6 P P P N N mg/kg %         6 Mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg	pH         1:5 EC dS/m         Exchangeable Cations Mg         K         Na Cmol (4)           4.66B 4.85B 4.18K 1.91 0.26 0.03 5.12B 5.21K 3.32 0.23 0.13 4.76B 4.3B         5.21K 3.93 0.25 0.07         0.07           4.3B         5.12K 3.93 0.25 0.07         0.07           6aCO3 0rganic C P P P N K Mg/kg % % % %         0.00           6aCO3 0rganic C P P P N K Mg/kg % % % %         0.00           6aCO3 0rganic C P P P N K Mg/kg % % % %         0.00           6aCO3 0rganic C P P P N K K Mg/kg % % % %         0.00           6aCO3 0rganic C P P P N K K Mg/kg % % % %         0.00           6aCO3 0rganic C P P P N K K Mg/kg % % % %         0.00           6aCO3 0rganic C P P P N K K Mg/kg % % % %         0.00           6aCO3 0rganic C P P P N K K Mg/kg % % % %         0.00           6aCO3 0rganic C P P P N K K Mg/kg % % % % %         0.00           6aCO3 0rganic C P P P N K K Mg/kg % % % % %         0.00           6aCO3 0rganic C P P P N K K Mg/kg % % % % % %         0.00	PH	pH         1:5 EC ds/m         Exchangeable Cations (Ca Mg K)         Exchangeable Cations (Na Acidity Cmol (+)/kg         CEC Mg K (+)/kg           4.66B ds/m         3.63K 1.06 0.38 (-) 0.03 (-)	EXEMENTED EXAMING A SET SET OF THE PROPERTY OF THE PROPERT

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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