Project Name: **BAGO-MARAGLE FOREST SOIL SURVEY**
Project Code: **BGM_FSS** **Site ID:** **0066** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By: N.J. McKenzie
Date Desc.: 15/12/95
Map Ref.: Sheet No. : 8526 DGPS
Northing/Long.: 6027033 AMG zone: 55
Easting/Lat.: 610173 Datum: AGD66
Locality:
Elevation: 783 metres
Rainfall: No Data
Runoff: No Data
Drainage: Rapidly drained

Geology

ExposureType: No Data
Geol. Ref.: Sgg
Conf. Sub. is Parent. Mat.: Probable
Substrate Material: Adamellite

Land Form

Rel/Slope Class: No Data
Morph. Type: Ridge
Elem. Type: Hillslope
Slope: 18 %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
Aspect: 135 degrees

Surface Soil Condition (dry): Firm

Erosion: Stable, Not apparent (sheet)

Soil Classification

Australian Soil Classification:
Leptic Tenosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Um2.12
Great Soil Group: N/A

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.06 m	Black (5YR2.5/1-Moist); ; Loam; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Abrupt, Smooth change to -
A21	0.06 - 0.23 m	Light yellowish brown (10YR6/4-Moist); Very pale brown (10YR7/4-Dry); ; Medium sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated; Field pH 6.5 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Gradual, Smooth change to -
A22	0.23 - 0.45 m	Yellowish brown (10YR5/4-Moist); Very pale brown (10YR7/4-Dry); ; Sandy loam; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Few cutans, <10% of ped faces or walls coated; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots; Sharp, Smooth change to -
C1	0.45 - 0.85 m	Brown (7.5YR4/4-Moist); Substrate influence, 5YR44, 20-50% , Distinct; Medium sandy clay loam; Moderately moist; Firm consistence; Field pH 5.5 (Raupach); Diffuse, Smooth change to -
C2	0.85 - 1.3 m	Brown (7.5YR4/4-Moist); ; Medium sandy clay loam; Moderately moist; Field pH 7 (Raupach);

Morphological Notes

C1	Redder - clay rich areas pH 5 less weathered area pH 5.5
C2	Colour not possible primary minerals.

Observation Notes

McKinneys ridge site above thick blackberries.

Site Notes

COMP 43H,77135-3,296D,1050M FR 78605-1

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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 - 0.06	4.91C		18.53H	2.9	1.44	0.06	0.12J 0.21K		23.26E	
0.06 - 0.23	4.8C		2.55H	0.9	0.95	0.04	0.13J 0.04K		4.61E	
0.23 - 0.45	4.6C		2.5H	1.05	0.87	0.05	0.27J 0K		4.74E	
0.45 - 0.85	4.72C		2.89H	1.22	0.93	0.09	0.2J 0K		5.32E	
0.85 - 1.3	5.41C		2.34H	0.72	0.71	0.1	0.01J 0.17K		4.05E	

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 - 0.06		9.5B		794.6B	0.4A		1.14	24.52				
0.06 - 0.23		0.44B		412.5B	0.04A		1.52	32.54				
0.23 - 0.45		0.35B		232.7B	0.02A		1.59	32.08				
0.45 - 0.85		0.2B		372.4B	0.02A		1.55	34.74				
0.85 - 1.3		0.02B		565.8B	0.01A			28.62				

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 - 0.06										
0.06 - 0.23										
0.23 - 0.45										
0.45 - 0.85										
0.85 - 1.3										

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Laboratory Analyses Completed for this profile

15_NR	Sum of Ex. cations + Ex. acidity - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
15E1_H	Exchangeable H - by compulsive exchange, no pretreatment for soluble salts
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
2A1	Air-dry moisture content
4B2	pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1
6B2	Total organic carbon - high frequency induction furnace, volumetric
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
P10_GRAV	Gravel (%)
P3A1	Bulk density - g/cm3