

Project Name: BAGO-MARAGLE FOREST SOIL SURVEY
Project Code: BGM_FSS **Site ID:** 0143 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	23/05/96	Elevation:	573 metres
Map Ref.:	Sheet No. : 8526 DGPS	Rainfall:	No Data
Northing/Long.:	6061448 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	614650 Datum: AGD66	Drainage:	Rapidly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Os	Substrate Material:	Schist

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	60 %	Aspect:	180 degrees

Surface Soil Condition (dry):

Erosion: Minor (sheet) Active, Present (mass)

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Acidic Orthic Tenosol Thin Moderately gravelly Clay-loamy Clayey Moderately deep	Principal Profile Form:	Gn4.11
ASC Confidence: All necessary analytical data are available.	Great Soil Group:	No suitable group

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments: 20-50%, fine gravelly, 2-6mm, subangular platy, ; 20-50%, medium gravelly, 6-20mm, subangular platy, ; 20-50%, fine gravelly, 2-6mm, angular tabular, Coal

Profile Morphology

O1	0 - 0.02 m	Organic Layer; ;
A1	0.02 - 0.08 m	Dark brown (7.5YR3/2-Moist); ; Fine sandy clay loam; Weak grade of structure, <2 mm, Granular; Rough-ped fabric; Moderately moist; Very weak consistence; 20-50%, fine gravelly, 2-6mm, subangular tabular, coarse fragments; Field pH 4 (Raupach); Many, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Clear, Irregular change to -
B21	0.08 - 0.27 m	Reddish brown (5YR4/4-Moist); Biological mixing, 7.5YR2.5/2, 2-10% , Faint; Clay loam; Weak grade of structure, 2-5 mm, Polyhedral; 10-20 mm, Subangular blocky; Rough-ped fabric; Moderately moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular tabular, coarse fragments; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Gradual, Irregular change to -
B22	0.27 - 0.5 m	Dark reddish brown (5YR3/4-Moist); Biological mixing, 2-10% , Distinct; Clay loam; Weak grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular tabular, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 4.5 (Raupach); Many, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Few, medium (2-5mm) roots; Gradual, Irregular change to -
BC	0.5 - 0.72 m	Yellowish red (5YR4/6-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 50-90%, coarse gravelly, 20-60mm, subangular tabular, coarse fragments; Field pH 4 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Gradual, Irregular change to -

Morphological Notes

A1 Layers 1 to 3 have a colluvial origin.

B21 Large pores/burrows due to blind crickets.

Observation Notes

Very steep slope - loose gravel, soil and litter produce numerous terracettes. Active colluvial slope movement.

Site Notes

COMP 121H 468-1 172D 160M FROM RD BND

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Comol (+)/kg				%
0 - 0.02										
0.02 - 0.08	4.06C		4.88H	1.61	0.79	0.08	6.32J 0.56K		14.23E	
0.08 - 0.27	4.29C		0.65H	0.74	0.55	0.05	2.5J 0K		4.49E	
0.27 - 0.5	4.17C		0.12H	0.97	0.55	0.06	3.31J 0K		5E	
0.5 - 0.72	4.06C		0.16H	0.77	0.55	0.04	2.68J 0K		4.2E	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.02												
0.02 - 0.08		10.17B		505.7B	0.3A		0.85	62.6				
0.08 - 0.27		2.45B		373.7B	0.11A		0.97	53.25				
0.27 - 0.5		2.93B		327.4B	0.09A			39.8				
0.5 - 0.72		0.6B		333.6B	0.06A			34.49				

[illegible]

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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