

Project Name: BAGO-MARAGLE FOREST SOIL SURVEY
Project Code: BGM_FSS **Site ID:** 0017 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	14/02/96	Elevation:	1235 metres
Map Ref.:	Sheet No. : 8526 DGPS	Rainfall:	No Data
Northing/Long.:	6027824 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	621491 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:	Simple-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	47 %	Aspect:	45 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Acidic Magnesic Red Kandosol Medium Slightly gravelly Clay-loamy Clayey Very deep		Principal Profile Form:	Um7.11
ASC Confidence:		Great Soil Group:	Red earth

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments: 2-10%, coarse gravelly, 20-60mm, subangular, Schist

Profile Morphology

O1	0 - 0.05 m	Organic Layer; ;
A1	0.05 - 0.22 m	Dark reddish brown (5YR3/2-Moist); , 5YR32; Clay loam; Strong grade of structure, 2-5 mm, Polyhedral; 5-10 mm, Polyhedral; Rough-ped fabric; Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, subangular, Schist, coarse fragments; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Clear, Smooth change to -
A3	0.22 - 0.34 m	Dark reddish brown (5YR3/3-Moist); Biological mixing, 5YR32, 2-10% , Faint; Clay loam; Moderate grade of structure, 5-10 mm, Polyhedral; 2-5 mm, Granular; Rough-ped fabric; Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, subangular, Schist, coarse fragments; Field pH 5 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Common, medium (2-5mm) roots; Common, coarse (>5mm) roots; Clear, Wavy change to -
B21	0.34 - 0.53 m	Dark reddish brown (2.5YR3/4-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 10-20%, medium gravelly, 6-20mm, subangular, Schist, coarse fragments; Field pH 5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Diffuse, Irregular change to -
B22	0.53 - 1.15 m	Red (2.5YR4/6-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 20-50%, medium gravelly, 6-20mm, subangular, Schist, coarse fragments; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots;

Morphological Notes

A1 Stong pedality due to worm casting.

B21 Increased gravel content - well dispersed.

B22 Gravel content increases from layer 3 uniform gravelly soil to over 1 meter. Auger refusal at 1.05m.

Observation Notes

Site upslope of dogwood gully, steep slope.

Site Notes

COMP 23H,3791-1,199D,200M FROM 3754-1

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.05										
0.05 - 0.22	4.28C		3.96H	1.06	0.65	0.06	3.54J 0K		9.28E	
0.22 - 0.34	4.12C		0.14H	0.54	0.52	0.06	2.9J 0K		4.17E	
0.34 - 0.53	4.01C		0H	0.53	0.59	0.03	2.26J 0K		3.41E	
0.53 - 1.15	4C		0H	0.46	0.55	0.05	2.15J 0K		3.21E	

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 - 0.05												
0.05 - 0.22		6.06B		108.3B	0.01A		0.94	39.08				
0.22 - 0.34		1.96B		252.9B	0.08A		1.40	46.49				
0.34 - 0.53		0.96B		234.8B	0.04A		1.24	41.41				
0.53 - 1.15		0.35B		235B	0.02A			67.69				

[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