Project Name: Project Code: Agency Name: BAGO-MARAGLE FOREST SOIL SURVEY BGM_FSS Site ID: 0037 Observation ID: 1 CSIRO Division of Soils (ACT)

Site Information

Desc.		P. Ry		Locality:					
		22/11/95 Sheet No. : 8526 DGPS 6032992 AMG zone: 55 616220 Datum: AGD66		Elevation: Rainfall: Runoff: Drainage:		1537 metres No Data No Data Well drained			
<u>Geolo</u> Expos Geol.	ureType: Soil pit			Conf. Sub. is Parent. Mat.: Probable Substrate Material: Sandstone					
Rel/SI Morph	<u>Form</u> ope Class: h. Type: Type: :	No Data Open depression (vale) Drainage depression 17 %		Pattern Type: Relief: Slope Category: Aspect:		No Data No Data No Data 270 degrees			
Erosi			on (dry):Firm						
Australian Soil Classification: Mapping						ng Unit: pal Profile	Form:	N/A Uf6.11	
ASC	Confidence	:	data are available.		Great	Soil Group	:	No suitable group	
<u>Veget</u> Surfa	tation:	Frag		0 0			lar, San	ndstone; 2-10%, coarse gravelly	
Profil 01	<u>e Morphol</u> 0 - 0.03 n								
A1	0.03 - 0.1		 Organic Layer; ; Black (5YR2.5/1-Moist); Biological mixing, 5YR32, 2-10%, Faint; Light clay; Strong grade of structure, 2-5 mm, Polyhedral; 5-10 mm, Polyhedral; Rough-ped fabric; Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, subrounded tabular, Sandstone, coarse fragments; Field pH 5.5 (Raupach); Many, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Clear, Wavy change to - 						
A3	0.17 - 0.2	26 m	Dark reddish brown (5YR3/2-Moist); Biological mixing, 5YR2.51, 10-20%, Faint; Light clay; Strong grade of structure, 2-5 mm, Polyhedral; 5-10 mm, Subangular blocky; Rough-ped fabric; Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, subangular tabular, Sandstone, coarse fragments; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Common, medium (2-5mm) roots; Common, coarse (>5mm) roots; Clear, Smooth change to -						
321	0.26 - 0.4	41 m	Dark reddish brown (5YR3/4-Moist); Biological mixing, 5YR32; Light medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, subangular tabular, Sandstone, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1- 2mm) roots; Common, medium (2-5mm) roots; Common, coarse (>5mm) roots; Gradual, Smooth change to -						
B22	0.41 - 0.6	39 m	Dark reddish brown (2.5YR3/4-Moist); ; Light medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Moist; Weak consistence; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Diffuse, Smooth change to -						
B23	0.69 - 1.4	13 m	Red (2.5YR4/6-Moist); ; Light medium clay; Weak grade of structure, 5-10 mm, Angular blocky; Rough-ped fabric; Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, subrounded tabular, Sandstone, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2- 5mm) roots; Few, coarse (>5mm) roots; Clear change to -						
Morp B23	hological l	Notes	Auger was stopped by weath	nering substr	ate.				
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Observation Notes

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Downslope of site the drainage line changes into a soak. **<u>Site Notes</u>**

COMP 36H, 2514-1, BRG 274DEG, 525M

Project Name: BAGO-MARAGLE FOREST SOIL SURVEY Project Code: Agency Name: BGM_FSS Site ID: 0037 Observation ID: 1 CSIRO Division of Soils (ACT)

Laboratory Test Results:

Depth	рН	1:5 EC			e Cations		Exchangeable	CEC	ECE	C ESP
m		dS/m	Ca	Mg	к	Na Cmol (Acidity ·)/kg			%
0 - 0.03										
0.03 - 0.17	4.01C		1.97H	0.85	0.82	0.05	6.8J 0K		10.48	E
0.17 - 0.26	4.06C		0.12H	0.54	0.86	0.03	4.59J		6.13	E
0.26 - 0.41	4.2C		0.43H	0.9	0.99	0.02	0K 2.93J		5.26	E
0.41 - 0.69	4.04C		0.06H	0.74	0.92	0.03	0K 3.74J		5.49	E
				-			0K			
0.69 - 1.43	3.94C		0.02H	0.66	0.87	0.01	4.36J 0K		5.92	E
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Tota K			ticle Size CS FS	Analysis Silt Clay
m	%	%	mg/kg	%	%	%			%	···· ···,
0 - 0.03										
0.03 - 0.17		8.11B		448.9E	-		0.85	45.91		
0.17 - 0.26		3.23B		447.2E			0.85	25.37		
0.26 - 0.41		1.98B		424.8E		-	1.09	28.69		
0.41 - 0.69 0.69 - 1.43		0.85B 0.45B		427B 450.6E		-	1.19 1.23	33.93 27.27		
0.09 - 1.43		0.450		430.01	5 0.0	47	1.25	21.21		
Depth	COLE	Gravimetric/Volumetric Water Contents K sat K unsat						K unsat		
m		Sat.	0.05 Bar	0.1 Bar g	0.5 Bar /g - m3/m	1 Bar 13	5 Bar 15	Bar	mm/h	mm/h

m 0 - 0.03 0.03 - 0.17 0.17 - 0.26 0.17 - 0.20 0.26 - 0.41 0.41 - 0.69 0.69 - 1.43

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Laboratory Analyses Completed for this profile

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