Project Name:	BAGO-MARAGL	E FOREST	SOIL SURVEY		
Project Code:	BGM_FSS	Site ID:	0022	Observation ID:	1
Agency Name:	CSIRO Division	of Soils (A	CT)		

Site Information

Map Re Northin Easting	esc.: f.: g/Long.:	P. Ryan 15/02/96 Sheet No. : 8526 DGPS 6023737 AMG zone: 55 621036 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	1246 metres No Data No Data Well drained			
<u>Geoloc</u> Exposu Geol. R	reType:	No Data Dga		Conf. Sub. is Parent. Mat.: Substrate Material:		e iorite	
Land F Rel/Sloj Morph. Elem. T Slope:	pe Class: Type: ype:	No Data Lower-slope Hillslope 35 %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data 225 degr	ees		
Erosio		n <u>dition (dry):</u> Loose , Minor (sheet) on					
Australi Haplic D	ian Soil Cla	nssification: rown Kandosol Thin Slightly gr		oing Unit: apal Profile	Form:	N/A Gn4.34	
ASC Co All nece	onfidence: essary analy	rtical data are available.		t Soil Group):	Yellow podzolic soil	
Site Di Vegeta		: No effective disturbance. Na	atural				
		Fragments: 2-10%, coarse	gravelly, 20-60mm, sub	angular, Gra	anodiorite	e; 2-10%, coarse gravelly, 20)-60mm,
Surfac			gravelly, 20-60mm, sub 10%, fine gravelly, 2-6r	0 /)-60mm,
Surfac ubangula	e Coarse ar tabular,	Granodiorite; 2-	o y <i>i</i>	0 /)-60mm,
Surfac ubangula	e Coarse	Granodiorite; 2- Dark brown (7.5YR3/2-N Rough-ped fabric; Moist	10%, fine gravelly, 2-6r Moist); ; Coarse sandy I t; Very weak consistenc agments; Field pH 6 (Ra	mm, subang oam; Weak æ; 2-10%, co aupach); Co	ular tabul grade of s parse gra mmon, ve	lar, Coal structure, 2-5 mm, Granular ivelly, 20-60mm, subangular ery fine (0-1mm) roots; Few,	, , ,
Surface ubangula Profile	e Coarse ar tabular, Morpholo	Granodiorite; 2- Dark brown (7.5YR3/2-M Rough-ped fabric; Moist Granodiorite, coarse fra fine (1-2mm) roots; Few Dark yellowish brown (1 10 mm, Polyhedral; Rou 60mm, subangular, Gra	Moist); ; Coarse sandy I t; Very weak consistenc agments; Field pH 6 (Ri medium (2-5mm) root 0YR4/4-Moist); ; Coars ugh-ped fabric; Moist; W nodiorite, coarse fragm	mm, subang oam; Weak ce; 2-10%, co aupach); Co cs; Clear, Sm ce sandy clay /eak consist ents; Field p	ular tabul grade of s parse gra mmon, ve nooth cha / loam; M ence; 2-1 H 6 (Rau	lar, Coal structure, 2-5 mm, Granular ivelly, 20-60mm, subangular ery fine (0-1mm) roots; Few,	5-
Surfacture ubangula Profile A1	e Coarse ar tabular, Morpholo 0 - 0.08 m	Granodiorite; 2- Dark brown (7.5YR3/2-N Rough-ped fabric; Moist Granodiorite, coarse fra fine (1-2mm) roots; Few m Dark yellowish brown (1 10 mm, Polyhedral; Rou 60mm, subangular, Gra (0-1mm) roots; Few, fine m Brown (7.5YR4/4-Moist) blocky; Rough-ped fabri	10%, fine gravelly, 2-6r Moist); ; Coarse sandy I ;; Very weak consistence agments; Field pH 6 (Ra r, medium (2-5mm) root 0YR4/4-Moist); ; Coars ugh-ped fabric; Moist; W nodiorite, coarse fragm e (1-2mm) roots; Few, r); ; Coarse sandy clay; V c; Moist; Weak consiste	mm, subang oam; Weak æ; 2-10%, co aupach); Co s; Clear, Sm æ sandy clay /eak consist ents; Field p nedium (2-5 Weak grade ence; Field p	ular tabul grade of s barse gra mmon, ve nooth cha / loam; M ence; 2-1 H 6 (Rau mm) roots of structu of structu	lar, Coal structure, 2-5 mm, Granular, ivelly, 20-60mm, subangular ery fine (0-1mm) roots; Few, inge to - loderate grade of structure, 5 0%, coarse gravelly, 20- ipach); Common, very fine	5-
Surfac ubangul: Profile A1 A2	<u>e Coarse</u> ar tabular, <u>Morpholo</u> 0 - 0.08 m 0.08 - 0.22	Granodiorite; 2- PQV Dark brown (7.5YR3/2-M Rough-ped fabric; Moist Granodiorite, coarse fra fine (1-2mm) roots; Few 2 m Dark yellowish brown (1 10 mm, Polyhedral; Rou 60mm, subangular, Gra (0-1mm) roots; Few, fine 4 m Brown (7.5YR4/4-Moist) blocky; Rough-ped fabri 1 mm) roots; Few, fine (1 2 m Strong brown (7.5YR4/6	Moist); ; Coarse sandy I t; Very weak consistence agments; Field pH 6 (Ray medium (2-5mm) root 0YR4/4-Moist); ; Coars ugh-ped fabric; Moist; W nodiorite, coarse fragm e (1-2mm) roots; Few, re (; Moist; Weak consistent 1-2mm) roots; Few, ment S-Moist); ; Coarse sandy stence; Field pH 5 (Rau	mm, subang oam; Weak ce; 2-10%, co aupach); Co cs; Clear, Sm e sandy clay /eak consist ents; Field p nedium (2-5 Weak grade ence; Field p dium (2-5mn y clay; Mass	ular tabul grade of s parse gra mmon, ve nooth cha / loam; M ence; 2-1 H 6 (Rau mm) roots of structu of structu of structu n) roots; [ive grade	lar, Coal structure, 2-5 mm, Granular, ivelly, 20-60mm, subangular ery fine (0-1mm) roots; Few, inge to - loderate grade of structure, 8 0%, coarse gravelly, 20- ipach); Common, very fine is; Gradual, Smooth change ure, 5-10 mm, Subangular aupach); Few, very fine (0-	5-
Surfac ubangul: Profile A1 A2 B21	e Coarse ar tabular, <u>Morpholo</u> 0 - 0.08 m 0.08 - 0.22 0.22 - 0.54	Granodiorite; 2- Dark brown (7.5YR3/2-N Rough-ped fabric; Moist Granodiorite, coarse fra fine (1-2mm) roots; Few m Dark yellowish brown (1 10 mm, Polyhedral; Rou 60mm, subangular, Gra (0-1mm) roots; Few, fine m Brown (7.5YR4/4-Moist) blocky; Rough-ped fabri 1mm) roots; Few, fine (1 2 m Strong brown (7.5YR4/6 Moist; Very weak consis 2mm) roots; Gradual, W	-10%, fine gravelly, 2-6r Moist); ; Coarse sandy I ;; Very weak consistence agments; Field pH 6 (Ray , medium (2-5mm) root 0YR4/4-Moist); ; Coars ugh-ped fabric; Moist; W nodiorite, coarse fragm e (1-2mm) roots; Few, re of (1-2mm) roots; Few, re c; Moist; Weak consiste 1-2mm) roots; Few, mer S-Moist); ; Coarse sandy stence; Field pH 5 (Rau (avy change to - S-Moist); ; Coarse sandy c; Moist; Very weak con ments; 10-20%, fine gra	mm, subang oam; Weak ce; 2-10%, cd aupach); Co s; Clear, Sm e sandy clay /eak consist ents; Field p medium (2-5 Weak grade ence; Field p dium (2-5mn y clay; Mass pach); Few, y clay loam; asistence; 10 avelly, 2-6mi	ular tabul grade of s barse gra mmon, ve nooth cha / loam; M ence; 2-1 H 6 (Rau mm) roots of structu H 5.5 (Ra n) roots; I ive grade very fine Massive 0-20%, fin m, suban	lar, Coal structure, 2-5 mm, Granular; ivelly, 20-60mm, subangular ery fine (0-1mm) roots; Few, inge to - loderate grade of structure, 8 0%, coarse gravelly, 20- ipach); Common, very fine s; Gradual, Smooth change ure, 5-10 mm, Subangular aupach); Few, very fine (0- Diffuse, Smooth change to - e of structure; Earthy fabric; (0-1mm) roots; Few, fine (1- grade of structure; Sandy le gravelly, 2-6mm, gular, Quartz, coarse	5-

A1 A2 Thiness and consistence evidence of recent colluvial activity. Structure due primarily to casting.
 Project Name:
 BAGO-MARAGLE FOREST SOIL SURVEY

 Project Code:
 BGM_FSS
 Site ID:
 0022
 Observation ID:
 1

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 CSIRO Division of Soils (ACT)
 Site ID:
 0022
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 1

BC Start of in situ weathering PM.

Observation Notes

In young ash regen. stand. Litter terracettes have dammed loose surface soil. Aplite and dolerite form most of coarse gravel. Upper 80cm probably of colluvial origin.

Site Notes

COMP 25H,9733-1,262DEG,50M FROM ROAD

Project Name:BAGO-MARAGLE FOREST SOIL SURVEYProject Code:BGM_FSSSite ID:0022Observation ID:1Agency Name:CSIRO Division of Soils (ACT)

Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeab Mg	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Wg	ĸ		(+)/kg			%
0 - 0.08	4.55C		9.43H	0.9	0.56	0.07	1.41J 0K		12.38E	
0.08 - 0.22	4.76C		3.21H	0.77	0.44	0.03	0.53J 0K		4.99E	
0.22 - 0.54	4.2C		1.72H	0.88	0.6	0.04	1.65J 0K		4.9E	
0.54 - 0.82	3.87C		0.27H	0.53	0.64	0.03	3.5J 0K		4.97E	
0.82 - 1.55	3.89C		0H	0.16	0.46	0.02	2.25J 0K		2.89E	
1.55 - 2.7	4.15C		0H	0.03	0.34	0.05	0.61J 0K		1.02E	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle	Size	Analysis	5
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV CS	FS %	Silt	Clay
0 - 0.08		7.82B		221.5B	0.25A		0.82	36.35			
0.08 - 0.22		2.7B		131.4B	0.09A		1.04	34.53			
0.22 - 0.54		1.15B		127B	0.04A		1.02	28.24			
0.54 - 0.82		0.53B		130.8B	0.03A		1.11	29.13			
0.82 - 1.55		0.23B		92.5B	0.01A		1.30	33.16			
1.55 - 2.7		0.09B		59.8B	0A			30.82			

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	3			mm/h	mm/h

0 - 0.08 0.08 - 0.22 0.22 - 0.54 0.54 - 0.82 0.82 - 1.55 1.55 - 2.7

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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	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 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
2A1	
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
P10 GRAV	Gravel (%)
P3A1	Bulk densíty - g/cm3