Project Name:	BAGO-MARAG	GLE FORES	T SOIL SUF	RVEY		
Project Code:	BGM_FSS	Site ID:	0080	Observation ID:		
Agency Name:	CSIRO Division of Soils (ACT)					

1

Site Information

Exposure Type: Sold pit Conf. Sub. is Parent. Mat.: Probable Geol. Rel:: SGG Substrate Material: Granodiorite Rel/Slope Class: No Data Pattern Type: No Data Morph. Type: Upper-slope Relief: No Data Slope: 8 % Aspect: 0 degrees Suiface Soil Condition (dry): Firm Firm Erosion: Soil Classification: Mapping Unit: N/A Australian Soil Classification: Mapping Unit: N/A Addition (drup): Firm Erosion: Great Soil Group: N/A Addition: Very deep Great Soil Group: N/A Addition: Substrate Mapping Unit: N/A All no-o.14 m Dark brown (7.5YR3/2-Moist); Clay loam; Moderate grade of structure, 10-20 mm, Granular, 2-5 Profile Morphology A1 0 - 0.14 m Mark brown (7.5YR3/2-Moist); Clay loam; Moderate grade of structure, 10-20 and, Granular, 2-5 Profile Morphology A1 0 - 0.14 m Mark brown (7.5YR3/2-Moist); Clay loam; Moderate grade of structure, 10-20 mm, Granular, 2-5 Profile Morphology A1 0 - 0.14 m Mark brown (7.5YR3/2-Moist); Clay	Desc. Date D Map R Northi	Desc.: lef.: ing/Long.: ig/Lat.:	N.J. McKenzie 12/02/96 Sheet No. : 8526 DGPS 6044984 AMG zone: 55 615152 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	1090 metres No Data No Data Well drained						
TerefStope Class: No Data Pattern Type: No Data Morph. Type: Upper-slope Stope Category: No Data Stope: 8 % Aspect: 0 degrees Stop: 8 % Aspect: 0 degrees Stop: Relief: No No Asstratian Soil Classification: Mapping Unit: N/A Ascic Confidence: Asc Confidence: Un6. ASC Confidence: No No Suite Disturbance: No edita are available. Stread and structure, 10-20 mm, Granular, 2-5 Profile Morphology Parker brown (7.5YR3/2-Moist): Clay loam; Moderate grade of structure, 10-20 mm, Granular, 2-5 Marking to a structure, 200 mm, Granular, 2-5 mm, Granular, Rough-ped fabric; Moderately moist; Very weak consistence; 2-10%, coarse gravelly, 20-60 mm, subangular, dispersed, Granodiorite, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, faint; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (-5mm) roots; Clear, Smooth change to - B21 0.14 - 0.4	Expos	sureType:	•								
Erosion: Soil Classification Australian Soil Classification: Mapping Unit: N/A Acidic Dystrophic Red Kandosol Medium Slightly gravelly Principal Profile Form: Um6. Clay-loamy Clay-loamy Very deep Great Soil Group: N/A All necessary analytical data are available. Great Soil Group: N/A Site Disturbance: No effective disturbance other than grazing by hoofed animals Vegetation: Surface Coarse Fragments: Profile Morphology A1 0 - 0.14 m Dark brown (7.5YR3/2-Moist); ; Clay loam; Moderately molit: Very weak consistence; 2-10%, coarse gravelly, 20-60mm, subangular, dispersed, Granodiorite, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, faint; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Clar, Smooth change to - B21 0.14 - 0.4 m Reddish brown (SYR4/4-Moist); Biological mixing, 5YR32, 2-10%, Distinc; Clay loam; Weak grade of structure, 20-60 mm, subangular, dispersed, Granodiorite, coarse fragments; Few cutans, -10% of ped faces or walls coated, faint; Field pH 5 (Raupach); Many, very fine (0-1mm) roots; Gradual, Smooth change to - B21 0.14 - 0.4 m Reddish brown (SYR4/4-Moist); Biological mixing, 5YR32, 2-10%, Distinc; Clay loam; Weak grade of structure, 2-60 mm, subangular, dispersed, Granodiorite, coarse fragments; Few cutans, -10% of ped faces or walls coated, faint; Field pH 5 (Raupach); Many, very fine (0-1mm) roots; Gra	Rel/Sle Morph Elem.	ope Class: n. Type: Type:	Upper-slope Hillslope	Relief: Slope Category:	No Data No Data						
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Acidic Dystrophic Red Kandosol Medium Slighty gravelly Principal Profile Form: Um6. Clay-loamy Clay-loamy Very dep SSC Confidence: Great Soil Group: N/A All necessary analytical data are available. Site Disturbance: N/A Surface Coarse Fragments: Profile Morphology A1 0 - 0.14 m Dark brown (7.5YR3/2-Moist); Clay loam; Moderate grade of structure, 10-20 mm, Granular; 2-5 mm, Granular; Rough-ped fabric; Moderately moist; Very weak consistence; 2-10%, coarse gravelly, 20-60mm, subangular, dispersed, Granodiorite, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, faint; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Clear, Smooth change to - B21 0.14 - 0.4 m Reddish brown (5YR4/4-Moist); Biological mixing, 5YR32, 2-10%, Distinct; Clay loam; Weak grade of structure, 20-50 mm, Polyhedral; Earthy fabric; Moderately moist; Weak consistence; 2-10%, coarse (gravell), 20-60mm, subangular, dispersed, Granodiorite, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5.5 (Raupach); Many, very fine (0-1mm) roots; Gradual, Smooth change to -	Soil C	Classificat	ion								
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	B3	1.35 - 2 r	Moderately moist; Weak consistence; 2-10%, coarse gravelly, 20-60mm, subangular, dispersed,								
	Morn	hological	Notes								
				ayer 2 and more coa	rse sand - almost a	a light clay.					

Observation Notes

Site is on north side of knoll, above creek flat. Crossed track just west of site. Site Notes

Project Name:BAGO-MARAGLE FOREST SOIL SURVEYProject Code:BGM_FSSSite ID:0080Observation ID:1Agency Name:CSIRO Division of Soils (ACT)

Project Name:BAGO-MARAGLE FOREST SOIL SProject Code:BGM_FSSSite ID:0080Agency Name:CSIRO Division of Soils (ACT) BAGO-MARAGLE FOREST SOIL SURVEY Observation ID: 1

Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeabl Mg	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Wg	ĸ	Cmol				%
0 - 0.14	4.04C		0.71H	0.41	0.65	0.05	4.93J 0K		6.76E	
0.14 - 0.4	4.25C		0.19H	0.21	0.63	0.03	2.04J 0K		3.1E	
0.4 - 0.63	4.17C		0.3H	0.48	0.63	0.04	1.52J 0K		2.97E	
0.63 - 1.35	4.14C		0.01H	0.23	0.45	0.04	1.21J 0K		1.93E	
1.35 - 2	4.11C		ОH	0.21	0.34	0.06	1.37J 0K		1.97E	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	rticle	Size	Analys	is
	0/	C	P	P	N N	ĸ	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.14		6.02B		1211.1B	0.28A		0.70	19.79				
0.14 - 0.4		1.46B		777.9B	0.09A		1.11	19.52				
0.4 - 0.63		0.47B		490.7B	0.05A		1.23	17.95				
0.63 - 1.35		0.2B		287.3B	0.02A		1.45	11.38				
1.35 - 2		0.07B		146.7B	0.01A			7.97				

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 - 0.14 0.14 - 0.4 0.4 - 0.63 0.63 - 1.35 1.35 - 2

Project Name:BAGO-MARAGLE FOREST SOIL SURVEYProject Code:BGM_FSSSite ID:0080Observation ID:1Agency Name:CSIRO Division of Soils (ACT)

Laboratory Analyses Completed for this profile

15_NR 15E1_AL 15E1_CA 15E1_H 15E1_K 15E1_MG 15E1_NA 2A1 4B2 6D2	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
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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