Project Name:	BAGO-MARAGL	E FOREST	SOIL SURVEY		
Project Code:	BGM_FSS	Site ID:	0016	Observation ID:	1
Agency Name:	CSIRO Division	of Soils (A	CT)		

Site Information

Desc. Date I Map R Northi Eastir Geol. Expos Geol. Land Rel/SI Morph Elem. Slope Surfa Erosi	Desc.: Ref.: ing/Long.: ng/Lat.: <u>OqY</u> sureType: Ref.: Form lope Class: n. Type: Type: : suce Soil Co	P. Ryan 14/02/96 Sheet No. : 8526 DGPS 6028105 AMG zone: 55 621650 Datum: AGD66 Soil pit os No Data Upper-slope No Data 29 % ndition (dry): Firm I, Minor (sheet)	Locality: Elevation: Rainfall: Runoff: Drainage: Conf. Sub. is Pare Substrate Materia Pattern Type: Relief: Slope Category: Aspect:		a	
Acidic		assification: rown Kandosol Medium Gravelly (Deep		ng Unit: pal Profile Form:	N/A Gn2.21	
	Confidence cessary ana	ytical data are available.	Great	Soil Group:	Brown earth	
	<u>Disturbanc</u> tation:	e: No effective disturbance. Natu	ıral			
Surfa		Fragments: 10-20%, medium	gravelly, 6-20mm, sub	prounded tabular, So	chist; 10-20%, coarse gravelly,	
	le Morphol					
01	0 - 0.03 n					
A1	0.03 - 0.1	loam; Weak grade of struc consistence; 10-20%, mec pH 4.5 (Raupach); Many,	Dark brown (7.5YR3/4-Moist); Biological mixing, 10YR33, 2-10%, Faint; Medium sandy clay loam; Weak grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Moist; Weak consistence; 10-20%, medium gravelly, 6-20mm, subrounded, Schist, coarse fragments; Field pH 4.5 (Raupach); Many, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Abrupt, Wavy change to -			
AB	0.16 - 0.3	10-20%, Faint; Clay loam Subangular blocky; Rough 20mm, subrounded tabula (0-1mm) roots; Few, fine	Brown (7.5YR4/4-Moist); Mechanical, 7.5YR32, 20-50%, Distinct; Biological mixing, 10YR32, 10-20%, Faint; Clay loam, sandy; Moderate grade of structure, 5-10 mm, Polyhedral; 10-20 mm, Subangular blocky; Rough-ped fabric; Moist; Weak consistence; 10-20%, medium gravelly, 6-20mm, subrounded tabular, Schist, coarse fragments; Field pH 5 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Common, coarse (>5mm) roots; Clear, Broken change to -			
B2	0.33 - 0.5	loam; Weak grade of struc 10-20%, medium gravelly,	Strong brown (7.5YR5/6-Moist); Biological mixing, 10YR33, 2-10%, Faint; Medium sandy clay loam; Weak grade of structure, 5-10 mm, Polyhedral; Earthy fabric; Moist; Weak consistence; 10-20%, medium gravelly, 6-20mm, subrounded tabular, Schist, coarse fragments; Field pH 4.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Clear, Irregular change to -			
BC	0.58 - 0.8	loam; Massive grade of st 50%, coarse gravelly, 20-6	Yellowish brown (10YR5/8-Moist); Substrate influence, 2.5YR44, 20-50%, Prominent; Sandy loam; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Weak consistence; 20-50%, coarse gravelly, 20-60mm, subrounded tabular, Schist, coarse fragments; Field pH 4.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Clear, Wavy change to -			
С	0.83 - 1.0		Reddish brown (2.5YR4/4-Moist); ; Sandy loam; 50-90%, cobbly, 60-200mm, subrounded tabular, Schist, coarse fragments; Field pH 4.5 (Raupach);			
<u>Morp</u>	hological l	Notes				
A1		Evidence of mechanical dis	sturbance.			
AB		Buried lens of darker organic rich material with abundant charcoal. Evidence of mechanical disturbance				
C Obso	mation N-	Red colouring from weathe	ered iron rich sediment	S.		
Obse	rvation No	les				

Project Name:BAGO-MARAGLE FOREST SOIL SURVEYProject Code:BGM_FSSSite ID:0016Observation ID:1Agency Name:CSIRO Division of Soils (ACT)

Site is on ridge line with gravelly surface. Recently logged. <u>Site Notes</u>

COMP 23H,3754-1,272D,250M FR RD-CK JN

Project Name:BAGO-MARAGLE FOREST SOIL SURVEYProject Code:BGM_FSSSite ID:0016Observation ID:1Agency Name:CSIRO Division of Soils (ACT)

Laboratory Test Results:

Depth	рН	1:5 EC		hangeable			xchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	к	Na Cmol (+)	Acidity /kg			%
0 - 0.03										
0.03 - 0.16	3.98C		0.25H	0.16	0.17	0.03	3.06J 0K		3.67E	
0.16 - 0.33	3.91C		0.16H	0.14	0.17	0.03	3.93J 0K		4.42E	
0.33 - 0.58	4.02C		0H	0.09	0.13	0.03	1.64J 0K		1.9E	
0.58 - 0.83	4.13C		0H	0.1	0.09	0.02	0.9J 0K		1.12E	
0.83 - 1.08	4.16C		ОH	0.09	0.09	0.04	0.69J 0K		0.91E	
Depth	CaCO3	Organic	Avail.	Total	Total		Bulk			Analysis
m	%	С %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS FS %	Silt Clay
0 - 0.03										
0.03 - 0.16		4.14B		177.9E	0.1	1A	1.02	32.2		
0.16 - 0.33		3.8B		178.1E	3 0.1	A	0.99	26.6		
0.33 - 0.58		0.48B		124.4E	3 0.0	6A	1.73	26.78		
0.58 - 0.83		0.12B		126.6E		-		16.11		
0.83 - 1.08		0.07B		139.8E	8 0.0	2A		21.07		
Depth	COLE					Nater Cont			K sat	K unsat
		Sat.	0.05 Bar		0.5 Bar	1 Bar	5 Bar 15	Bar		

r	0.1	Bar	0.5	Bar	1
		g/g	-	m3/m3	

mm/h

mm/h

0 - 0.03
0.03 - 0.16
0.16 - 0.33
0.33 - 0.58
0.58 - 0.83
0.83 - 1.08

m

Project Name:BAGO-MARAGLE FOREST SOIL SURVEYProject Code:BGM_FSSSite ID:0016Observation 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 6B2 7A2 9A3 P10_GRAV	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 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 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 Total Phosphorus (ppm) - semimicro kjeldahl, automated colour Gravel (%)
P10_GRAV	Gravel (%)
P3A1	Bulk density - g/cm3