Project Name:	BAGO-MARAGL	E FOREST	SOIL SURVEY		
Project Code:	BGM_FSS	Site ID:	0155	<b>Observation ID:</b>	1
Agency Name:	<b>CSIRO</b> Division	of Soils (A	CT)		

## Site Information

Desc. B Date De Map Re Northin Easting Geolog	esc.: f.: g/Long.: /Lat.:	P. Ryan 08/04/97 Sheet No. : 8526 DGPS 6049535 AMG zone: 55 606297 Datum: AGD66 Undisturbed soil core		Locality: Elevation: Rainfall: Runoff: Drainage:	Elevation: 1289 metres Rainfall: No Data Runoff: No Data				
Geol. R		Sgg		Substrate l					
Morph. Elem. T Slope:	pe Class: Type:	No Data Flat Hillcrest 2 % <b>ndition (dry):</b> Firm		Relief:	lope Category: No Data				
Erosio									
Soil Cl	assificati	<u>on</u>							
Acidic D	i <b>an Soil Cl</b> ystrophic E √ery deep		cation: Dermosol Thin Non-gravelly \$	Mapping Unit: Silty Principal Profile Form:		-	N/A Um6.32		
All nece	,	lytical	data are available.		Great	Soil Group:	No suitable group		
Vegeta		<u>e.</u> No	effective disturbance. Natura	11					
	e Coarse	Frag	ments:						
	Morphol		Ornerie Leven						
01	0 - 0.02 n		Organic Layer; ;				5 40 mm Dalida dadi 0 5 mm		
A1	0.02 - 0.1	1 m	<ul> <li>(7.5YR2.5/2-Moist); ; Silty clay loam; Moderate grade of structure, 5-10 mm, Polyhedral; 2-5 mm, Polyhedral; Smooth-ped fabric; Dry; Weak consistence; Few cutans, &lt;10% of ped faces or walls coated, distinct; Field pH 4.5 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Clear change to -</li> </ul>						
B21	0.11 - 0.3	3 m	Dark brown (7.5YR3/4-Moist); ; Silty clay loam; Moderate grade of structure, 5-10 mm, Polyhedral; 2-5 mm, Polyhedral; Smooth-ped fabric; Dry; Firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 4 (Raupach); Common, very fine (0- 1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Gradual change to -						
B22	0.3 - 0.48	ßm	Strong brown (7.5YR4/6-Moist); ; Silty clay; Moderate grade of structure, 5-10 mm, Subangular blocky; 2-5 mm, Polyhedral; Smooth-ped fabric; Dry; Firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 4 (Raupach); Few, very fine (0-1mm) roots; Gradual change to -						
B3	0.48 - 0.9	95 m	M Yellowish brown (10YR5/6-Moist); ; Silty clay loam; Weak grade of structure, 10-20 mm, Angular blocky; Earthy fabric; Moderately moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 4 (Raupach); Few, very fine (0-1mm) roots; Clear change to -						
C1	0.95 - 1.4	l7 m	Light brownish grey (2.5Y6/3-Moist); ; Coarse sandy loam; Massive grade of structure; Sandy (grains prominent) fabric; Weak consistence; Field pH 4 (Raupach); Gradual change to -						
C2	1.47 - 2.5	52 m	Pale yellow (2.5Y7/3-Moist); Substrate influence, 2.5Y76, 10-20%, Faint; Substrate influence, 2.5Y2.51, 2-10%, Distinct; Loamy coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Weak consistence; 2-10%, coarse gravelly, 20-60mm, subrounded platy, Granodiorite, coarse fragments; Field pH 5 (Raupach);						
Morphological Notes									
C1			Clear change to weathering	g granodiorite	e - pale.				
C2			Weathering granodiorite, feldspar and Fe-Mn minerals. Banding of Ferro-Manganesium minerals.						
Observ	vation No	tes							

**Observation Notes** 

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Site is 50m north of Bulongra rd, 1km east of BM154.

Site Notes

BULONGA RD, 1KM EAST OF BM154

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## Laboratory Test Results:

Depth	pH	1:5 EC		hangeable			Exchangeable	CEC		ECEC	;	ESP
m		dS/m	Ca I	Иg	к	Na Cmol (	Acidity (+)/kg					%
0 - 0.02												
0.02 - 0.11	4.15C		0.58H	0.56	0.58	0	6.51J 0K			8.23E		
0.11 - 0.3	4.06C		0.46H	0.51	0.44	0	6.16J			7.58E		
0.3 - 0.48	3.99C		0.47H	0.58	0.38	0	0K 5.93J			7.36E		
0.48 - 0.95	3.94C		0.05H	0.34	0.16	0	0K 4.88J			5.43E		
						-	0K					
0.95 - 1.47	4.08C		0.07H	0.1	0.12	0.02	1.16J 0K			1.46E	:	
1.47 - 2.52	4.16C		0.06H	0.1	0.05	0	0.77J 0K			0.98E		
							UN					
Depth	CaCO3	Organic	Avail.	Total	Total				rticle		Analys	
m	%	C %	P mg/kg	P %	N %	K %		GV	CS	FS %	Silt	Clay
0 - 0.02												
0.02 - 0.11		4.79B		1009.4E	3 0.2	7A	0.91	8.44				
0.11 - 0.3		1.84B		724B	0.1		1.07	6.21				
0.3 - 0.48		0.77B		463.4B			1.01	4.26				
0.48 - 0.95		0.19B		333.1B			1.47	6.17				
0.95 - 1.47 1.47 - 2.52		0.07B 0.04B		396.2B 257.3B				7.81 12.69				
<b>D</b>	0015											- 4
Depth	COLE	0-4	Grav	imetric/Vo				Dan	Ks	at	K uns	at

Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar g/g - m3/m3 mm/h

mm/h

0 - 0.02 0.02 - 0.11 0.11 - 0.3 0.3 - 0.48 0.48 - 0.95 0.95 - 1.47 1.47 - 2.52

m

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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 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 (Ca2+,Mg2+,Na+,K+) 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 (%)
•••••	
FJAI	Duik uensity - g/uno