Project Name:	BAGO-MARAG	LE FORES	SOIL SURVEY		
Project Code:	BGM_FSS	Site ID:	0147	<b>Observation ID:</b>	1
Agency Name:	CSIRO Division	n of Soils (A	CT)		

### Site Information

Desc. E Date De Map Re Northin Easting	esc.: of.: og/Long.: o/Lat.:	P. Ry 11/03 Sheet 60510		Locality: Elevation: 1126 me Rainfall: No Data Runoff: No Data Drainage: Rapidly of				
<u>Geolog</u> Exposu Geol. R	ireType:	Soil pit Sgg		Conf. Sub. is Parent. Mat. Substrate Material:			Probable Granodiorite	
Land F Rel/Slo Morph. Elem. T Slope:	pe Class: Type:	No Data Mid-slope Hillslope 32 %		Pattern Ty Relief: Slope Cate Aspect:	•	No Data No Data No Data 45 degrees		
Surfac	e Soil Co	onditio	on (dry): Loose			-		
Erosio	n:							
Soil Cl	assificati	ion						
	ian Soil Cl		cation:		Маррі	ng Unit:		N/A
			andosol Thin Non-gravelly Loa	amy		oal Profile	Form:	Gn2.14
Clay-loa	amy Very d	еер		-				
	onfidence		data ara availabla		Great	Soil Group	<b>)</b> :	Red podzolic soil
	•	•	data are available. effective disturbance. Natura	-				
Vegeta		<u>e.</u> Nu		ai				
	e Coarse	Frag	ments:					
	Morphol	-						
01	0 - 0.02 n		Organic Layer; ;					
A1	0.02 - 0.0	)7 m	<ul> <li>Dark brown (7.5YR3/2-Moist); Biological mixing, 10YR44, 2-10%, Distinct; Loam; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Dry; Very weak consistence; 0-2%, medium gravelly, 6-20mm, subangular, coarse fragments; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (&gt;5mm) roots; Abrupt, Wavy change to -</li> </ul>					
A2	0.07 - 0.2	23 m	n Dark brown (7.5YR3/4-Moist); Yellowish brown (10YR5/4-Dry); Biological mixing, 7.5YR44, 10-20%, Faint; Medium sandy clay loam; Moderate grade of structure, 2-5 mm, Polyhedral; 5-10 mm, Polyhedral; Rough-ped fabric; Dry; Firm consistence; 2-10%, coarse gravelly, 20-60mm, angular tabular, Quartz, coarse fragments; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Clear, Wavy change to -					
B21	0.23 - 0.4	0.47 m Strong brown (7.5YR4/6-Moist); Biological mixing, 7.5YR33, 2-10%, Faint; Clay Ioam; Moderate grade of structure, 5-10 mm, Subangular blocky; 2-5 mm, Polyhedral; Rough-ped fabric; Dry; Weak consistence; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Diffuse, Smooth change to -						
B22	0.47 - 1.0	)2 m	Yellowish red (5YR4/6-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Moderately 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; Gradual, Smooth change to -					
B3	1.02 - 1.4	12 m	2 m Yellowish red (5YR4/6-Moist); ; Coarse sandy clay loam; Earthy fabric; Moderately moist; Weak consistence; 10-20%, medium gravelly, 6-20mm, subangular, coarse fragments; Field pH 4.5 (Raupach); Gradual change to -					
С	1.42 - 2.2	7 m Yellowish brown (10YR5/4-Moist); ; Clayey coarse sand; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; Field pH 6 (Raupach);						
Morph	ological l	Notes	A1 harizan has anly aparadi					

A1 A1 horizon has only sporadic covreage.

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A2 Pale A2 horizon.

Increase in weathering coarse fragments. Sand content increases. Possible old

#### **Observation Notes**

Followed fishing trail towards Burrong Ck. Crossed creek and placed site 40m uphill.

#### Site Notes

В3

BUDDONG CK, SOUTH OF FISHING TRAIL

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#### Laboratory Test Results:

Depth	рН	1:5 EC		hangeable Ng	e Cations K	E Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca I	vig	ĸ	Cmol (+)				%
0 - 0.02 0.02 - 0.07	4.69C		9.86H	1.82	0.98	0	2.4J 0K		15.06E	
0.07 - 0.23	4.4C		1.32H	0.39	0.55	0	3.76J 0K		6.02E	
0.23 - 0.47	4.45C		0.56H	0.66	0.71	0	1.9J 0K		3.84E	
0.47 - 1.02	4.16C		0.09H	0.46	0.43	0	2.68J 0K		3.65E	
1.02 - 1.42	4.14C		0.05H	0.29	0.34	0	2.23J 0K		2.91E	
1.42 - 2.27	4.54C		0.09H	0.16	0.3	0	0.43J 0.06K		1.04E	
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Parti GV (	icle Size CS FS	Analysis Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3	GV (	%	Sint Clay
0 - 0.02 0.02 - 0.07 0.07 - 0.23 0.23 - 0.47 0.47 - 1.02 1.02 - 1.42 1.42 - 2.27		9.82B 4.21B 1.02B 0.37B 0.2B 0.09B		453.8E 315.5E 317.2E 272.9E 280.1E 477.5E	3         0.16           3         0.06           3         0.03           3         0.02	6A 6A 3A 2A	0.66 0.87 1.01 1.23	11.53 9.29 4.19 4.06 13.79 9.88		
Depth	COLE	Sat.	Grav 0.05 Bar		olumetric V 0.5 Bar	Vater Cont 1 Bar		Bar	K sat	K unsat
m		Sat.	0.03 Bar		0.5 Баг /g - m3/m		5 Dar 15	Dai	mm/h	mm/h

0 - 0.02 0.02 - 0.07 0.07 - 0.23 0.23 - 0.47 0.47 - 1.02 1.02 - 1.42 1.42 - 2.27

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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 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 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 organic - semimicro Kieldabl_ 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