Project Name:	BAGO-MARAC	GLE FORES	SOIL SURVEN	(
Project Code:	BGM_FSS	Site ID:	0117	Observation ID:
Agency Name:	CSIRO Divisio			

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Site Information

Desc. E Date De Map Re	esc.: ef.: ig/Long.:	P. Ry 25/04 Sheet 60541		Locality: Elevation: Rainfall: Runoff: Drainage:		1269 met No Data No Data Well draiı		
<u>Geolog</u> Exposu Geol. R	ireType:	Soil p Tb	it	Conf. Sub. Substrate			Probab Basalt	le
Land F Rel/Slo Morph. Elem. T Slope:	pe Class: Type:	No Da Crest Hillcro 3 %		Pattern Ty Relief: Slope Cate Aspect:		No Data No Data No Data 270 degr	ees	
Erosio			on (dry): Soft					
	assificati							
						ng Unit: pal Profile Form:		N/A Gn4.11
ASC C All nece	onfidence essary ana	: lytical o	data are available.		Great	Soil Group):	Chocolate soil
Vegeta	isturbanc ation: e Coarse		mente					
	Morphol		ments.					
01	0 - 0.05 n		Organic Layer; ;					
A1	0.05 - 0.1							
A3	0.17 - 0.2	28 m Dark reddish brown (5YR3/2-Moist); Biological mixing, 5YR34, 10-20%, Distinct; Silty clay; Strong grade of structure, 2-5 mm, Polyhedral; 5-10 mm, Polyhedral; Rough-ped fabric; Moderately moist; Weak consistence; Few cutans, <10% of ped faces or walls coated, faint; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Few, medium (2-5mm) roots; Common, coarse (>5mm) roots; Clear, Smooth change to -						
B21	0.28 - 0.5	5 m	m Dark reddish brown (5YR3/4-Moist); Biological mixing, 5YR33, 2-10%, Faint; Silty clay; Weak grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, subrounded, Basalt, coarse fragments; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Diffuse, Smooth change to -					
B22	0.5 - 0.85	Dark reddish brown (5YR3/4-Moist); ; Light medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Moist; Weak consistence; 20-50%, medium gravelly, 6- 20mm, subrounded tabular, Basalt, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Common, coarse (>5mm) roots;						
<u>Morph</u> A1	ological	<u>Notes</u>	Strong structure due to worr	n casting.				
A3			Strong structure due to worn	n casting.				

B21 Structure almost disappears.

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B22

Large floaters appear at 0.60m. At 0.8m floaters form pavement with soil between flags. Could not auger this, although BC horizon may continue.

Observation Notes

Top of basalt flow west of Bullongra Rd. Adjacent to very large ash.Blackberries abundant

Site Notes

COMP 26H 2708-1 247D 70M FR BULLONGRA

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Laboratory Test Results:

Depth	рН	1:5 EC		hangeable			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	К	Na Cmol (+)	Acidity)/kg			%
0 - 0.05										
0.05 - 0.17	4.18C		7.78H	2.49	1.11	0.13	10.25J 0K		21.76	E
0.17 - 0.28	4.34C		3.84H	1.49	0.93	0.09	6.62J 0K		12.97	E
0.28 - 0.5	4.32C		1.18H	0.7	0.72	0.08	4.47J		7.14E	E
0.5 - 0.85	4.2C		0.38H	0.26	0.47	0.07	0K 4.64J 0K		5.83E	E
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density		ticle Size CS FS	Analysis Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0 - 0.05										
0.05 - 0.17		14.49B		1449.1			0.42	47.7		
0.17 - 0.28 0.28 - 0.5		8.49B 3.88B		1742.3 1492.4	-	-	0.61 0.73	28.07 4.85		
0.28 - 0.5		3.00D 2.87B		1721.5	-		0.73	4.65		
0.0 0.00		2.070		1721.0	B 0.1	57	0.00	11.01		
Depth	COLE	Gravimetric/Volumetric Water Contents K sat K unsat							K unsat	
m		Sat.	0.05 Bar		0.5 Bar /g - m3/m	1 Bar 3	5 Bar 15	Bar	mm/h	mm/h
0 - 0 05				5						

0 - 0.05 0.05 - 0.17 0.17 - 0.28 0.28 - 0.5 0.5 - 0.85

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Laboratory Analyses Completed for this profile