Project Name:	BAGO-MARA	GLE FORES	T SOIL SU	RVEY
Project Code:	BGM_FSS	Site ID:	0135	Observation ID:
Agency Name:	CSIRO Divisio			

1

Site Information

Desc. B Date De Map Re Northin Easting	esc.: ef.: ig/Long.: g/Lat.:	N.J. N 17/05 Shee 6060	McKenzie /96 t No. : 8526 DGPS 602 AMG zone: 55 28 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:		512 metro No Data No Data Rapidly d			
<u>Geoloc</u> Exposu Geol. R	ireType:	Soil pit Os				No Dat Schist	a		
Morph. Elem. T Slope:	pe Class: Type: ype:	No Data Mid-slope Hillslope 37 %		Pattern Ty Relief: Slope Cate Aspect:	•	No Data No Data No Data 45 degrees			
Erosio	Surface Soil Condition (dry): Firm Erosion: Partial, Minor (sheet) Soil Classification								
Acidic L	Australian Soil Classification: Acidic Lithic Bleached-Orthic Tenosol Thin Moderately gravelly Clay-loamy Clayey Moderately deep			Mapping Unit: Principal Profile Form:			Form:	N/A Gn4.2	
ASC Co All nece	onfidence essary ana	: lytical	data are available.		Great	Soil Group):	N/A	
Vegeta	ation:		effective disturbance. Natura ments: 10-20%, fine gravel		ngular p	laty, ; 10-2	0%, mec	dium gravelly, 6-20mm, angular platy,	
	Morphol								
01	0 - 0.01 n	n	Organic Layer; ;						
A1	0.01 - 0.0)4 m	Dark reddish brown (5YR3/2-Moist); ; Medium sandy clay loam; Moderate grade of structure, 2-5 mm, Granular; Rough-ped fabric; Moderately moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, angular platy, dispersed, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 4.5 (Raupach); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -						
A2	0.04 - 0.1	l1 m	Brown (7.5YR5/4-Moist); Substrate influence, 10YR64, 20-50%, Distinct; Silty clay loam; Weak grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Moderately moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, angular platy, dispersed, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 4.5 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Clear, Smooth change to -						
B21	0.11 - 0.3	33 m	Yellowish red (5YR4/5-Moist); ; Light medium clay; Weak grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Moderately moist; Weak consistence; 50-90%, medium gravelly, 6-20mm, angular platy, dispersed, coarse fragments; 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; Few, medium (2-5mm) roots; Common, coarse (>5mm) roots; Clear, Smooth change to -						
B22	0.33 - 0.5	56 m	 Yellowish red (5YR5/6-Moist); ; Light medium clay; Weak grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Moderately moist; Weak consistence; 50-90%, medium gravelly, 6-20mm, angular platy, dispersed, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, faint; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Gradual, Wavy change to - 						
Morphological Notes A1 Minimal A1 horizon.									
A2			the mottles are sporadic and	leached.					
B21			Very gravelly but LMC when	sieved.					
B22			Texture is heavier again and	auite stickv.					

B22 Texture is heavier again and quite sticky.

Project Name:BAGO-MARAGLE FOREST SOIL SURVEYProject Code:BGM_FSSSite ID:0135Observation ID:1Agency Name:CSIRO Division of Soils (ACT)

Steep exposed slope burnt >20 years ago. Similar to BM133 but the profile is more strongly developed - particularly the redness and clay content of the B2.

Site Notes

COMP 121H 876-1 33D,350M FROM CREEK/RD

Project Name: Project Code: Agency Name: BAGO-MARAGLE FOREST SOIL SURVEY BGM_FSS Site ID: 0135 CSIRO Division of Soils (ACT) Observation ID: 1

Laboratory Test Results:

Depth	рН	1:5 EC		hangeable	e Cations K		Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	ĸ	Na Cmol (+	Acidity)/kg			%
0 - 0.01										
0.01 - 0.04	3.68C		3.25H	1.35	1.2	0.06	7.96J 3.82K		17.64	E
0.04 - 0.11	3.79C		0.52H	0.48	0.67	0.06	6.72J 0K		8.44E	E
0.11 - 0.33	4.07C		0.06H	0.59	0.72	0.06	2.49J 0K		3.92E	1
0.33 - 0.56	4.01C		0.06H	0.55	0.6	0.06	2.5J 0K		3.77E	1
Depth	CaCO3	Organic	Avail.	Total						Analysis
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS FS %	Silt Clay
0 - 0.01										
0.01 - 0.04 0.04 - 0.11		13.14B 5.68B		355.7E 251B	-			53.23 42.47		
0.11 - 0.33		1.03B		266.5E	-			52.58		
0.33 - 0.56		0.55B		273.2E	3 0.0	7A		52.09		
Depth	COLE		Grav	/imetric/V	olumetric	Water Con	tents		K sat	K unsat
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar /g - m3/m	1 Bar 13	5 Bar 15	Bar	mm/h	mm/h
0 - 0.01										

0-0.01 0.01 - 0.04 0.04 - 0.11 0.11 - 0.33 0.33 - 0.56

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Laboratory Analyses Completed for this profile

15_NR	Sum of Ex. cations + Ex. acidity - Not recorded
15E1_AL	Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
15E1_H	Exchangeable H - by compulsive exchange, no pretreatment for soluble salts
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
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 (%)