Project Name:BAGO-MARAGLE FOREST SOIL SURVEYProject Code:BGM_FSSSite ID:0126Observation ID:1Agency Name:CSIRO Division of Soils (ACT)

Site Information

Desc. Date D Map R Northi Eastin	Desc.: ef.: ng/Long.: g/Lat.:	N.J. McKenzie 10/05/96 Sheet No. : 8526 DGPS 6052807 AMG zone: 55 603014 Datum: AGD66	Rainfall: N Runoff: N	295 metres o Data o Data apidly drained					
<u>Geolo</u> Expos Geol. I	ureType:	No Data Sgg	Conf. Sub. is Parent. Substrate Material:	Mat.: Probable Granodiorite					
	ope Class: . Type: Type:	No Data Upper-slope Hillslope 11 %	Relief: N Slope Category: N	lo Data lo Data lo Data 70 degrees					
<u>Surfa</u>	<u>ce Soil Co</u>	ndition (dry): Firm							
Erosi									
<u>Soil C</u>	lassificati	<u>ion</u>							
Dystro ASC (phic Red Ka Confidence		Mapping Principal Great So	Profile Form: Um6.					
<u>Site D</u>	oisturbanc	e: No effective disturbance othe	than grazing by hoofed a	animals					
	ation:	F							
-	<u>ce Coarse</u> e Morphol	Fragments:							
A1	0 - 0.13 n	n Black (5YR2.5/1-Moist); ; ped fabric; Moist; Weak c dispersed, Granodiorite, c coated, faint; Common, v	Clay loam; Moderate grade of structure, 10-20 mm, Polyhedral; Rough- onsistence; 10-20%, coarse gravelly, 20-60mm, subangular, oarse fragments; Common cutans, 10-50% of ped faces or walls ery fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) o) roots; Abrupt, Wavy change to -						
B1	0.13 - 0.2	loam; Moderate grade of consistence; 2-10%, coar fragments; Common cuta 1mm) roots; Few, fine (1-	Dark reddish brown (5YR3/4-Moist); Biological mixing, 5YR2.52, 20-50%, Distinct; Silty clay loam; Moderate grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Moist; Weak consistence; 2-10%, coarse gravelly, 20-60mm, subangular, dispersed, Granodiorite, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, faint; Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Clear, Smooth change to -						
B21	0.25 - 0.5	grade of structure, 20-50 medium gravelly, 6-20mm <10% of ped faces or wal	mm, Polyhedral; Earthy f , subangular, dispersed, s coated, faint; Field pH 5	R32, 2-10%, Distinct; Silty clay loam; Weak abric; Moist; Very weak consistence; 0-2%, Granodiorite, coarse fragments; Few cutans, 5 (Raupach); Common, very fine (0-1mm) am) roots; Few, coarse (>5mm) roots; Diffuse,					
B22	0.5 - 1.2 ו	fabric; Moist; Very weak o dispersed, Granodiorite, o faint; Field pH 6 (Raupacl	Red (2.5YR4/6-Moist); ; Silty clay loam; Weak grade of structure, 20-50 mm, Polyhedral; Earthy fabric; Moist; Very weak consistence; 20-50%, coarse gravelly, 20-60mm, subangular, dispersed, Granodiorite, 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; Few, coarse (>5mm) roots; Gradual, Smooth change to -						
С	1.2 - 1.45	m Light yellowish brown (10YR6/4-Moist); ; Sandy loam; Massive grade of structure; Moist; Ve weak consistence; 50-90%, coarse gravelly, 20-60mm, subangular, dispersed, Granodiorite, coarse fragments; Field pH 6 (Raupach); Abrupt change to -							
<u>Morpl</u>	hological l								
A1		A relatively compact A1 w	5	face has subclover and may have					
B1		been trampled or trafficked Clear transition to B1.							

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Project Code:	BGM_FSS Site ID: 0126 Observation ID: 1
Agency Name:	CSIRO Division of Soils (ACT)
B21	Earthy and uniform layer. Texture has a slighly grittier feel than other profiles on granodiorite.
B22	Similar to 3 but coarse frags have increased.
C	Difficult to auger even to 1.45m because of large rocks .

Observation Notes

An open patch in ash regen. possibly a landing. Quite grassy with sub-clover. Profile appears more moist and differentiated compared to profiles under thick forest.

Site Notes

14917-1 COMP38H 2D,250M FR TRACK/CREST

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Laboratory Test Results:

Depth	рН	1:5 EC	Exc Ca	:hangeab Mg	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ga	Ng	ĸ	Cmol				%
0 - 0.13	4.77C		10.42H	1.99	1.04	0.06	3.03J 0K		16.54E	
0.13 - 0.25	4.7C		3.21H	1.01	0.5	0.03	1.38J 0K		6.12E	
0.25 - 0.5	4.19C		0.76H	0.73	0.28	0.03	1.69J 0K		3.5E	
0.5 - 1.2	4.08C		0.39H	0.44	0.24	0.03	1.8J 0K		2.89E	
1.2 - 1.45	4.28C		0.06H	0.06	0.11	0.02	0.54J 0K		0.79E	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	rticle	Size	Analysi	is
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.13		8.04B		810.7B	0.39A		0.75	11.73				
0.13 - 0.25		2.63B		634.6B	0.15A		1.02	14.7				
0.25 - 0.5		0.45B		382.7B	0.03A		1.12	5.56				
0.5 - 1.2		0.2B		361.8B	0.02A		1.27	6.89				
1.2 - 1.45		0.11B		301B	0.01A			9.84				

Depth	COLE	Gravimetric/Volumetric Water Contents K sat							K unsat	
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m			g/g - m3/m3					mm/h	mm/h	

0 - 0.13 0.13 - 0.25 0.25 - 0.5 0.5 - 1.2 1.2 - 1.45

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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 H - 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
7A2	Total nitrogen - semimicro Kjeldahl, automated colour
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
P10_GRAV	Gravel (%)
P3A1	Bulk density - g/cm3