

Project Name: BAGO-MARAGLE FOREST SOIL SURVEY
Project Code: BGM_FSS **Site ID:** 0150 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: P. Ryan	Locality:
Date Desc.: 13/03/97	Elevation: 868 metres
Map Ref.: Sheet No. : 8526 DGPS	Rainfall: No Data
Northing/Long.: 6023967 AMG zone: 55	Runoff: No Data
Easting/Lat.: 612703 Datum: AGD66	Drainage: Imperfectly drained

Geology

ExposureType: Soil pit	Conf. Sub. is Parent. Mat.: Probable
Geol. Ref.: Dga	Substrate Material: Adamellite

Land Form

Rel/Slope Class: No Data	Pattern Type: No Data
Morph. Type: Mid-slope	Relief: No Data
Elem. Type: Hillslope	Slope Category: No Data
Slope: 36 %	Aspect: 90 degrees

Surface Soil Condition (dry): Hardsetting

Erosion: Partial, Minor (sheet)

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Bleached-Acidic Dystrophic Brown Dermosol Medium	Principal Profile Form: Gn3.84
Gravelly Clay-loamy Clayey Moderately deep	
ASC Confidence:	Great Soil Group: Soloth

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments: 10-20%, medium gravelly, 6-20mm, subangular tabular, Adamellite; 10-20%, coarse gravelly, 20-60mm, subangular platy, Adamellite

Profile Morphology

A1	0 - 0.12 m	Yellowish brown (10YR5/4-Moist); Pale brown (10YR6/3-Dry); ; Medium sandy clay loam; Weak grade of structure, 5-10 mm, Polyhedral; Earthy fabric; Dry; Very weak consistence; 10-20%, coarse gravelly, 20-60mm, subangular, Adamellite, 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; Clear, Irregular change to -
A2e	0.12 - 0.33 m	Light brownish grey (10YR6/2-Moist); White (10YR8/2-Dry); ; Medium sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, Adamellite, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules, weak, segregations;Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Clear, Wavy change to -
B1	0.33 - 0.5 m	Yellow (10YR7/6-Moist); Very pale brown (10YR7/4-Dry); Substrate influence, 10YR66, 20-50% , Faint; Substrate influence, 10YR53, 2-10% , Distinct; Medium sandy clay; Moderate grade of structure, 10-20 mm, Prismatic; Smooth-ped fabric; Dry; Very firm consistence; 10-20%, coarse gravelly, 20-60mm, subangular, Adamellite, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules, weak, segregations;Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots; Gradual, Irregular change to -
B2t	0.5 - 0.73 m	Yellowish brown (10YR5/6-Moist); Substrate influence, 5YR58, 10-20% , Distinct; Substrate influence, 10YR42, 2-10% , Distinct; Light medium clay; Moderate grade of structure, 20-50 mm, Prismatic; , Angular blocky; Smooth-ped fabric; Dry; Strong consistence; 2-10%, coarse gravelly, 20-60mm, subangular, Adamellite, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 5.5 (Raupach); Gradual, Irregular change to -

Morphological Notes

B1	Sporadic vertical pores lined with grey clay.
B2t	Clay coating of pores increases. Intra-ped fabric close to parent material. Density increases at base of layer.

Observation Notes

Exposed westerly face of ridge paralleling western powerline rd in S.Maragle. SF Major fire within last 5yrs. Signs of post-fire erosion. High erosion. High radiometric K site.

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Site Notes

BURNT WESTERLY FACE NR SMA TK, MARAGLE

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
							(+)/kg		
0 - 0.12	4.1C		0.93H	0.71	0.46	0.07	2.49J 0K		4.65E
0.12 - 0.33	3.95C		0.04H	0.32	0.24	0.05	2.51J 0K		3.15E
0.33 - 0.5	3.83C		0.11H	0.51	0.33	0.24	3.43J 0K		4.62E
0.5 - 0.73	3.8C		0.06H	0.66	0.65	0.39	5.85J 0K		7.61E

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.12		2.6B		36.8B	0.09A		1.16	12.6				
0.12 - 0.33		0.3B		35.7B	0.02A		1.19	11.02				
0.33 - 0.5		0.19B		30.3B	0.01A		1.47	9.11				
0.5 - 0.73		0.16B		36.9B	0.01A		1.52	7.07				

[illegible]

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Laboratory Analyses Completed for this profile

15_NR	Sum of Ex. cations + Ex. acidity - Not recorded
15E1_AL	Exchangeable Al - 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 (%)
P3A1	Bulk density - g/cm3