

Project Name: BAGO-MARAGLE FOREST SOIL SURVEY
Project Code: BGM_FSS **Site ID:** 0152 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	14/03/97	Elevation:	877 metres
Map Ref.:	Sheet No. : 8526 DGPS	Rainfall:	No Data
Northing/Long.:	6023015 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	617632 Datum: AGD66	Drainage:	Rapidly 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:	40 %	Aspect:	90 degrees

Surface Soil Condition (dry): Loose

Erosion: Partial, Moderate (sheet)

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Basic Paralithic Orthic Tenosol Loamy Moderately gravelly Loamy Loamy Deep	Principal Profile Form:	Uc4.22
ASC Confidence:	Great Soil Group:	Earthy sand

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments: 20-50%, cobbly, 60-200mm, subrounded, Adamellite; 20-50%, cobbly, 60-200mm, subrounded tabular, Adamellite

Profile Morphology

A1	0 - 0.15 m	Brown (10YR4/3-Moist); Yellowish brown (10YR5/4-Dry); ; Coarse sandy loam; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Dry; Very weak consistence; 20-50%, cobbly, 60-200mm, subrounded, Adamellite, coarse fragments; Field pH 7 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Gradual, Irregular change to -
B21	0.15 - 0.48 m	Strong brown (7.5YR4/6-Moist); Yellowish brown (10YR5/6-Dry); ; Coarse sandy loam; Weak grade of structure, 5-10 mm, Polyhedral; Sandy (grains prominent) fabric; Dry; Very weak consistence; 20-50%, coarse gravelly, 20-60mm, subrounded, Adamellite, coarse fragments; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Diffuse, Irregular change to -
B22	0.48 - 0.84 m	Dark yellowish brown (10YR4/6-Moist); ; Coarse sandy loam; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; 20-50%, cobbly, 60-200mm, subrounded, Adamellite, coarse fragments; Field pH 5.5 (Raupach); Abrupt, Smooth change to -
BC	0.84 - 1.3 m	Light brown (7.5YR6/4-Moist); ; Clayey coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Weak consistence; 50-90%, cobbly, 60-200mm, subrounded, Adamellite, coarse fragments; Field pH 5 (Raupach);

Morphological Notes

A1 Morphology suggests it is an A2 where the A1 has been eroded.
B21 Cobbles down to this layer are weakly weathered. Those below are strongly weathered.

Observation Notes

A high Thorium site, west of ridge rd. Steep exposed site with loose terracetes of soil and litter.

Site Notes

POUND CK RIDGE RD - 500M N 278DEG 150M

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity			%
							(+)/kg			
0 - 0.15	4.91C		4.29H	1.04	0.82	0.01	1.03J		7.19E	
0.15 - 0.48	4.55C		1.12H	0.55	0.75	0	1J		3.41E	
0.48 - 0.84	4.34C		0.77H	0.81	0.73	0	1.23J		3.55E	
0.84 - 1.3	4.37C		0.63H	0.68	0.51	0	0.72J		2.55E	

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 - 0.15		2.64B		99.9B	0.12A		0.95	15.04				
0.15 - 0.48		0.74B		46.6B	0.04A		1.15	16.75				
0.48 - 0.84		0.27B		38.3B	0.02A		1.22	15.09				
0.84 - 1.3		0.17B		27.8B	0.01A			14.69				

[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