

**Project Name:** BAGO-MARAGLE FOREST SOIL SURVEY  
**Project Code:** BGM\_FSS **Site ID:** 0024 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

#### Site Information

<b>Desc. By:</b>	N.J. McKenzie	<b>Locality:</b>	
<b>Date Desc.:</b>	15/12/95	<b>Elevation:</b>	916 metres
<b>Map Ref.:</b>	Sheet No. : 8526 DGPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6023558 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	618482 Datum: AGD66	<b>Drainage:</b>	Well drained

#### Geology

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	Probable
<b>Geol. Ref.:</b>	DGA	<b>Substrate Material:</b>	Adamellite

#### Land Form

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	Lower-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Footslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	35 %	<b>Aspect:</b>	90 degrees

**Surface Soil Condition (dry):** Firm

**Erosion:** Partial, Minor (sheet)

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Haplic Mesotrophic Brown Kandosol Medium Moderately gravelly Clay-loamy Clay-loamy Deep	<b>Principal Profile Form:</b>	Um5.52

<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	N/A
All necessary analytical data are available.		

**Site Disturbance:** No effective disturbance. Natural

#### Vegetation:

#### Surface Coarse Fragments:

#### Profile Morphology

A1	0 - 0.19 m	Very dark grey (7.5YR3/1-Moist); ; Medium sandy clay loam; Weak grade of structure, 5-10 mm, Polyhedral; Sandy (grains prominent) fabric; Moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; 20-50%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; 2-10%, cobbly, 60-200mm, subrounded, dispersed, Adamellite, coarse fragments; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Clear, Wavy change to -
A3	0.19 - 0.4 m	Reddish brown (5YR4/4-Moist); Biological mixing, 10-20% , Distinct; Medium sandy clay loam; Weak grade of structure, 10-20 mm, Polyhedral; Sandy (grains prominent) fabric; Moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; 20-50%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Field pH 6.5 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Gradual, Smooth change to -
B21	0.4 - 0.65 m	Brown (7.5YR4/4-Moist); ; Coarse sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; 20-50%, fine gravelly, 2-6mm, angular, dispersed, coarse fragments; Field pH 6.5 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Diffuse, Smooth change to -
B22	0.65 - 1.05 m	Yellowish red (5YR5/6-Moist); ; Coarse sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; 20-50%, fine gravelly, 2-6mm, angular, dispersed, 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; Abrupt, Wavy change to -
R	1.05 - 1.06 m	Rock

#### Morphological Notes

A1	Rounded coarse fragments - transportational.
A3	Rounded coarse fragments - transportational.

#### Observation Notes

Clods with fungal mats.

#### Site Notes

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COMP 26H,9859-1,BRG 83,340M

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**Laboratory Test Results:**

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Cations		Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
				Mg	K					
0 - 0.19	4.72C		7.15H	1.05	0.87	0.08	1.11J 0K		10.26E	
0.19 - 0.4	4.91C		3.69H	0.56	0.74	0.04	0.56J 0K		5.59E	
0.4 - 0.65	4.54C		1.65H	0.56	0.78	0.06	0.59J 0K		3.64E	
0.65 - 1.05	4.64C		0.99H	0.48	0.66	0.02	0.2J 0K		2.35E	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Particle CS	Size FS	Analysis Silt	Analysis Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.19		5.22B		215B	0.2A		0.95	50.9				
0.19 - 0.4		2.3B		136.4B	0.1A		0.97	44.93				
0.4 - 0.65		0.9B		93.4B	0.04A		1.23	43.03				
0.65 - 1.05		0.45B		53.5B	0.02A		1.15	43.7				

[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