

Project Name: BAGO-MARAGLE FOREST SOIL SURVEY
Project Code: BGM_FSS **Site ID:** 0151 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	07/04/97	Elevation:	1145 metres
Map Ref.:	Sheet No. : 8526 DGPS	Rainfall:	No Data
Northing/Long.:	6041174 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	616077 Datum: AGD66	Drainage:	Very poorly drained

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Tb	Substrate Material:	Schist

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Valley flat	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Melacic Kandosolic Redoxic Hydrosol Very thick Non-gravelly Clayey Clayey Very deep	Principal Profile Form:	Gn2.82
ASC Confidence:	Great Soil Group:	Wiesenboden
All necessary analytical data are available.		

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments:

Profile Morphology

O1	0 - 0.05 m	Organic Layer; ;
A11	0.05 - 0.21 m	Black (5YR2.5/1-Moist); ; Clay loam (Sapric); Weak grade of structure, 5-10 mm, Angular blocky; Rough-ped fabric; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, angular tabular, Quartz, coarse fragments; Field pH 4.5 (Raupach); Many, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Clear change to -
A12	0.21 - 0.53 m	(2.5Y2.5/1-Moist); ; Light clay (Sapric); Weak grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular tabular, Quartz, coarse fragments; Field pH 4.5 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Common, medium (2-5mm) roots; Clear change to -
A13	0.53 - 1.2 m	Very dark grey (10YR3/1-Moist); ; Light medium clay; Massive grade of structure; Earthy fabric; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular tabular, Quartz, coarse fragments; Field pH 5 (Raupach); Few, very fine (0-1mm) roots; Sharp change to -
B2	1.2 - 1.49 m	Grey (5Y6/1-Moist); Substrate influence, 10YR68, 10-20% , Distinct; Substrate influence, 2.5Y51, 2-10% , Faint; Light clay; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 7 (Raupach); Few, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Abrupt change to -
C1	1.49 - 1.81 m	Dark bluish grey (5B4/1-Moist); Substrate influence, 10-20% , Distinct; Massive grade of structure; Moist; Weak consistence; Field pH 6.5 (Raupach); Abrupt change to -
C2	1.81 - 2.03 m	Strong brown (7.5YR5/8-Moist); Substrate influence, 10-20% , Distinct; Substrate influence, 2.5Y76, 0-2% , Faint; Massive grade of structure; Moist; Weak consistence; Field pH 7 (Raupach); Abrupt change to -
C3	2.03 - 3.17 m	; Massive grade of structure; Moderately moist; Weak consistence; Field pH 8.5 (Raupach); Abrupt change to -
2C1	3.17 - 3.45 m	Yellowish brown (10YR5/6-Moist); ; Massive grade of structure; Moderately moist; Firm consistence; Field pH 7.5 (Raupach);
2C1	4.2 - 4.65 m	Yellowish brown (10YR5/6-Moist); ; Massive grade of structure; Moderately moist; Firm consistence; Field pH 8 (Raupach);

Morphological Notes

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A11	Organic horizon. Abundant roots with occasional quartz gravel.
A12	Fine roots have redoxic coatings. Fine muscovite mica.
A13	Fine muscovite mica present.
B2	Thin B horizon, Fe stains adjacent to roots. Fine muscovite mica present.
C1	Weathering granodiorite.
C2	Weathering granodiorite with strong Fe - staining.
C3	Slightly less weathered granodiorite.
2C1	Meta-sediments! Phyllite xenolith or part of the meta-sediment screen to the south (BM083).
2C1	Meta-sediments.

Observation Notes

Drillcore site. Macpherson's Plains, west of eastern power line road. Site is beside stream 50m west of powerline.

Site Notes

MCPHERSON'S PLAIN-EASTERN POWERLINE RD

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Laboratory Test Results:

[illegible]

Depth m	CaCO3 %	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle Size			Analysis	
								GV	CS	FS %	Silt	Clay
0 - 0.05												
0.05 - 0.21		8.94B		1232.8B	0.47A		0.81	15.55				
0.21 - 0.53		2.48B		644.6B	0.18A		1.08	10.13				
0.53 - 1.2		1.68B		618.8B	0.11A		1.40	19.69				
1.2 - 1.49		0.2B		96B	0.02A			13.68				
1.49 - 1.81		0.16B		53.5B	0.01A			9.71				
1.81 - 2.03								5.12				
2.03 - 3.17								8.26				
3.17 - 3.45								13.86				
4.2 - 4.65								36.2				

[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