

Project Name: BAGO-MARAGLE ESM
Project Code: BGM_ESM **Site ID:** 1014 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	25/01/95	Elevation:	1225 metres
Map Ref.:	Sheet No. : 8526 DGPS	Rainfall:	No Data
Northing/Long.:	6053624 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	606574 Datum: AGD66	Drainage:	Well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	SGGH	Substrate Material:	Granodiorite

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Footslope	Slope Category:	No Data
Slope:	%	Aspect:	270 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Humose-Acidic Dystrophic Red Kandosol Medium Slightly gravelly Clay-loamy Clay-loamy Very deep	Principal Profile Form:	Um7.11
ASC Confidence:	Great Soil Group:	Red earth

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments:

Profile Morphology

O1	0 - 0.01 m	Organic Layer; ;
A1	0.01 - 0.13 m	Dark reddish brown (5YR2.5/2-Moist); Biological mixing, 2-10% , Faint; Clay loam; Moderate grade of structure, 2-5 mm, Polyhedral; >500 mm, Platy; Rough-ped fabric; Moderately moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, angular tabular, dispersed, Coal, coarse fragments; Field pH 6.5 (pH meter); Many, very fine (0-1mm) roots; Many, fine (1-2mm) roots; Common, medium (2-5mm) roots; Few, coarse (>5mm) roots; Clear, Smooth change to -
A3	0.13 - 0.26 m	Dark reddish brown (5YR3/2-Moist); Biological mixing, 10-20% , Faint; Clay loam; Moderate grade of structure, 5-10 mm, Polyhedral; 100-200 mm, Lenticular; Rough-ped fabric; Moderately moist; Weak consistence; 2-10%, coarse gravelly, 20-60mm, subangular, dispersed, coarse fragments; 2-10%, fine gravelly, 2-6mm, angular tabular, dispersed, Coal, coarse fragments; 0-2%, coarse gravelly, 20-60mm, subrounded tabular, dispersed, Granodiorite, coarse fragments; Field pH 6.5 (pH meter); Many, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Clear, Smooth change to -
B1	0.26 - 0.39 m	Reddish brown (5YR4/4-Moist); Biological mixing, 5YR31, 2-10% , Distinct; Clay loam; Weak grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Moist; Weak consistence; Field pH 6 (pH meter); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Gradual, Smooth change to -
B2	0.39 - 0.81 m	Reddish brown (5YR4/4-Moist); Biological mixing, 0-2% , Distinct; Clay loam; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, subrounded tabular, dispersed, coarse fragments; 0-2%, medium gravelly, 6-20mm, subrounded platy, dispersed, coarse fragments; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Common, medium (2-5mm) roots; Many, coarse (>5mm) roots; Diffuse, Smooth change to -
2B3	0.81 - 1.06 m	Strong brown (7.5YR4/6-Moist); ; Medium sandy clay loam; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 10-20%, coarse gravelly, 20-60mm, subrounded, stratified, coarse fragments; 2-10%, coarse gravelly, 20-60mm, subrounded tabular, stratified, Granodiorite, coarse fragments; Field pH 5 (pH meter); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Gradual, Smooth change to -
2C1	1.06 - 1.76 m	Light yellowish brown (10YR6/4-Moist); ; Sandy loam; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Field pH 6 (pH meter); Diffuse change to -

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2C2	1.76 - 3.51 m	Light yellowish brown (10YR6/4-Moist); ; Clayey sand; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Field pH 6 (pH meter); Diffuse change to -
2C3	3.51 - 4.21 m	Yellowish brown (10YR5/4-Moist); ; Loamy coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Field pH 5 (pH meter);

Morphological Notes

2B3 A transition zone between basalt/granodiorite colluvium and in situ weathered granodiorite. Mixture of granodiorite and basalt gravel.

Observation Notes

Basalt colluvium from upslope overlies granodiorite. PGP is situated on slope inflection point.

Site Notes

PGP 6, BAGO S.F., COMPT 27

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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
4A1	pH of 1:5 soil/water suspension
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