

Project Name: BAGO-MARAGLE ESM
Project Code: BGM_ESM **Site ID:** 1021 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: P. Ryan	Locality:
Date Desc.: 04/04/95	Elevation: 1191 metres
Map Ref.: Sheet No. : 8526 DGPS	Rainfall: No Data
Northing/Long.: 6051086 AMG zone: 55	Runoff: Slow
Easting/Lat.: 609084 Datum: AGD66	Drainage: Rapidly drained

Geology

ExposureType: Soil pit	Conf. Sub. is Parent. Mat.: Probable
Geol. Ref.: SGGH	Substrate Material: Granodiorite

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: 20 %	Aspect: 90 degrees

Surface Soil Condition (dry): Loose

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Acidic Dystrophic Brown Kandosol Medium Non-gravelly Clay-loamy Clayey Very deep	Principal Profile Form: Gn2.24
ASC Confidence:	Great Soil Group: Brown earth
All necessary analytical data are available.	

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments: 0-2%, cobbly, 60-200mm, subrounded, Granodiorite

Profile Morphology

O1	0 - 0.02 m	Organic Layer; ;
A11	0.02 - 0.12 m	Dark brown (7.5YR3/2-Moist); ; Clay loam, sandy; Moderate grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Dry; Weak consistence; 0-2%, medium gravelly, 6-20mm, subrounded, dispersed, Granodiorite, coarse fragments; Field pH 5.5 (pH meter); Many, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Clear, Wavy change to -
A12	0.12 - 0.24 m	Very dark greyish brown (10YR3/2-Moist); Biological mixing, 2-10% , Faint; Fine sandy clay loam; Strong grade of structure, 5-10 mm, Polyhedral; 100-200 mm, Lenticular; Rough-ped fabric; Dry; Weak consistence; 0-2%, cobbly, 60-200mm, subrounded, dispersed, Granodiorite, coarse fragments; 0-2%, fine gravelly, 2-6mm, angular tabular, dispersed, Coal, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 6 (pH meter); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Clear, Wavy change to -
B1	0.24 - 0.35 m	Dark brown (7.5YR3/4-Moist); Biological mixing, 2-10% , Distinct; Fine sandy clay loam; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Dry; Firm consistence; Few cutans, <10% of ped faces or walls coated, faint; Field pH 6 (pH meter); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Gradual, Smooth change to -
B2	0.35 - 0.77 m	Strong brown (7.5YR4/6-Moist); Biological mixing, 2-10% , Faint; Medium sandy light clay; Massive grade of structure; Earthy fabric; Dry; Firm consistence; 20-50%, cobbly, 60-200mm, subrounded tabular, stratified, Granodiorite, coarse fragments; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Diffuse, Smooth change to -
B3	0.77 - 0.97 m	Dark yellowish brown (10YR4/4-Moist); ; Clayey sand; Massive grade of structure; Earthy fabric; Dry; Weak consistence; 20-50%, cobbly, 60-200mm, subrounded tabular, stratified, Granodiorite, coarse fragments; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Gradual, Wavy change to -
C	0.97 - 2.12 m	Greyish brown (2.5Y5/3-Moist); ; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; 20-50%, cobbly, 60-200mm, subrounded tabular, stratified, Granodiorite, coarse fragments; Field pH 6 (pH meter);

Morphological Notes

B2	Large tors present in this layer and those below. Two old root channels are al-so present.
C	Course fragments within weathering granodiorite are mafic xenoliths.

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Observation Notes

PGP centre peg 3 south of pit. Plot is on slope below tor-field. Upslope ash is replaced by mountain gum, snow gum.

Site Notes

PGP22, BAGO S.F., COMPT 34

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[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 (Ca ²⁺ ,Mg ²⁺ ,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/cm ³