Project	t Name: t Code: y Name:	BG	GO-MARAGLE FOREST M_FSS Site ID: IRO Division of Soils (AC	0025		bservatio	on ID:	1	
Desc. B Date De Map Re Northin Easting	esc.: f.: g/Long.: /Lat.:	P. Ry 16/12 Sheet 6030		Locality: Elevation: Rainfall: Runoff: Drainage:		700 metres No Data No Data Moderately well c		rained	
<u>Geoloc</u> Exposu Geol. R	reType:	Soil p Sgg	it	Conf. Sub. Substrate I					
Land F Rel/Slop Morph. Elem. T Slope:	pe Class: Type:		r-slope ope	Relief: N Slope Category: N		No Data No Data No Data 0 degrees			
Surfac	e Soil Co	onditio	on (dry): Firm						
Erosio									
Soil Cl	assificat	<u>ion</u>							
Bleache	ian Soil C d Mesotro layey Dee	phic Ye	<b>cation:</b> ellow Kurosol Thin Gravelly C	lay-		ng Unit: pal Profile	Form:	N/A Dy5.41	
•	onfidence	•			Great	Soil Group	):	Yellow podzolic soil	
	,		data are available.	-1					
Vegeta	-	<u>e.</u> NC	effective disturbance. Natura	al					
	e Coarse	Frag	ments:						
<b>Profile</b>	Morpho	logy							
A1	0 - 0.05 r	n	<ul> <li>Very dark greyish brown (10YR3/2-Moist); ; Coarse sandy clay loam; Moderate grade of structure 2-5 mm, Granular; 5-10 mm, Subangular blocky; Rough-ped fabric; Moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 5 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Abrupt, Smooth change to -</li> </ul>						
A21j	0.05 - 0.1	18 m		icture; Sandy ravelly, 2-6m fine (0-1mm)	(grains im, suba	prominent) angular, Qu	fabric; I artz, coa		
A22e	0.18 - 0.3	33 m	Light yellowish brown (10YF 10YR54, 2-10%, Faint; Coa prominent) fabric; Moist; Fir coarse fragments; Field pH to -	arse sandy lo m consistenc	am; Mas ;e; 10-20	ssive grade 0%, fine gra	e of struc avelly, 2-	ture; Sandy (grains	
B21t	0.33 - 0.4	47 m Reddish yellow (7.5YR6/6-Moist); Substrate influence, 10YR64, 10-20%, Faint; Light medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 5 (Raupach); Few, very fine (0-1mm) roots; Clear, Wavy change to -							
B22t	0.47 - 0.8	35 m	Yellowish red (5YR4/6-Moist); Substrate influence, 7.5YR54, 10-20%, Faint; Substrate influence, 10YR74, 2-10%, Distinct; Medium clay; Strong grade of structure, 20-50 mm, Prismatic; 10-20 mm, Angular blocky; Smooth-ped fabric; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Clear, Irregular change to -						
С	0.85 - 1.4	4 m	M Yellowish brown (10YR5/6-Moist); Substrate influence, 5YR46, 2-10%, Prominent; Light clay; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 2-10%, fine gravelly, 2-6mm, subangular tabular, coarse fragments; Field pH 5 (Raupach);						
Morph	ological	Notes							

 Morphological Notes

 A22e
 Slight cementation could indicate densipan development.

## Project Name: BAGO-MARAGLE FOREST SOIL SURVEY Project Code: BGM\_FSS Site ID: 0025 Observation ID: 1 Agency Name: CSIRO Division of Soils (ACT) Site ID: 0025 Site ID: 1

С

B22t

Vertical ped surfaces provide preferential pathways for roots and water. Mottling occurs along these surfaces which are wet. Root channels penetrate this layer from above causing some clay skin surfaces.

#### **Observation Notes**

#### Site Notes

COMP 43H,74279-1,253D,100M FROM TRACK

Project Name:BAGO-MARAGLE FOREST SOIL SURVEYProject Code:BGM\_FSSSite ID:0025Observation ID:1Agency Name:CSIRO Division of Soils (ACT)

### Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeab Mg	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	wig	ĸ		(+)/kg			%
0 - 0.05	4.38C		4.87H	0.84	0.36	0.01	0.8J 0.06K		6.94E	
0.05 - 0.18	4.11C		0.64H	0.37	0.17	0.02	0.63J 0K		1.82E	
0.18 - 0.33	4.23C		0.86H	0.57	0.31	0.02	0.35J 0K		2.11E	
0.33 - 0.47	4.12C		2.53H	1.71	0.44	0.04	0.84J 0K		5.57E	
0.47 - 0.85	4.22C		3.61H	2.85	0.45	0.12	0.77J 0K		7.8E	
0.85 - 1.4	4.09C		4.18H	4.26	0.32	0.39	1.85J 0K		11E	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Densitv	Particle GV CS	Size FS		: Clav
m	%	%	r mg/kg	Р %	N %	к %	Mg/m3	GV C3	гз %	Sin	Ciay
0 - 0.05		2.72B		345.3B	0.09A		1.29	26.78			
0.05 - 0.18		0.48B		188.3B	0.02A		1.47	31.43			
0.18 - 0.33		0.21B		125.3B	0.01A		1.62	43.59			
0.33 - 0.47		0.27B		101.8B	0.02A		1.71	48.56			
0.47 - 0.85		0.32B		119.9B	0.03A		1.73	41.42			
0.85 - 1.4		0.13B		100.6B	0.01A			27.96			

Depth	COLE	Gravimetric/Volumetric Water Contents K s							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m			g/g - m3/m3						mm/h	mm/h

0 - 0.05 0.05 - 0.18 0.18 - 0.33 0.33 - 0.47 0.47 - 0.85 0.85 - 1.4

# Project Name:BAGO-MARAGLE FOREST SOIL SURVEYProject Code:BGM\_FSSSite ID:0025Observation ID:1Agency Name:CSIRO Division of Soils (ACT)

#### Laboratory Analyses Completed for this profile

15_NR 15E1_AL 15E1_CA 15E1_H 15E1_K 15E1_MG 15E1_NA 2A1 4B2 6B2 7A2 9A3 P10_GRAV	Sum of Ex. cations + Ex. acidity - Not recorded Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Air-dry moisture content pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1 Total organic carbon - high frequency induction furnace, volumetric Total nitrogen - semimicro Kjeldahl , automated colour Total Phosphorus (ppm) - semimicro kjeldahl, automated colour Gravel (%)
•••••	
FJAI	Duik density - grono