Project Nai Project Coe Agency Na	de: BC	AGO-MARAGLE ESM 3M_ESM Site ID: SIRO Division of Soils (AC	1009 CT)	Observatio	on ID:	1
Site Inform Desc. By: Date Desc.: Map Ref.: Northing/Loi Easting/Lat.: <u>Geology</u> ExposureTy Geol. Ref.:	P. R 16/12 Shee ng.: 6044 5986	2/94 et No. : 8526 DGPS 1736 AMG zone: 55 179 Datum: AGD66 pit	Locality: Elevation: Rainfall: Runoff: Drainage: Conf. Sub. is P Substrate Mate		V	
Land Form Rel/Slope Cl Morph. Type Elem. Type: Slope: Surface So Erosion: Soil Classif	ass: No I : Upp Hills 3 % il Conditi	Data er-slope lope	Pattern Type: Relief: Slope Category Aspect:	No Data No Data		ione
Australian S	oil Classif phic Red K	andosol Thin Non-gravelly Cla		pping Unit: ncipal Profile	Form:	N/A Um7.11
ASC Confid All necessar Site Distur	ence: y analytical bance: N	data are available. o effective disturbance. Natura		eat Soil Group) :	Red earth
Vegetation Surface Co		gments:				
<u>Profile Mor</u> 01 0-0	phology).01 m	Organic Layer; ;				
	- 0.1 m	0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	dral; 100-200 mm lastic; Moderately	, Lenticular; R sticky; Field p	ough-pe oH 6 (pH	meter); Many, very fine (0-
A3 0.1	- 0.22 m	grade of structure, 5-10 mm	n, Polyhedral; 100 loderately plastic; w, fine (1-2mm) ro	-200 mm, Len Slightly sticky	ticular; R /; Field p	int; Clay loam, sandy; Strong lough-ped fabric; Moderately H 5.5 (pH meter); Common, 5mm) roots; Few, coarse
B21 0.22	2 - 0.46 m	fabric; Moderately moist; We	e, 5-10 mm, Suba eak consistence; (0-1mm) roots; Fe	ngular blocky; Moderately pla ew, fine (1-2mi	100-200 astic; Slię m) roots;	mm, Lenticular; Rough-ped
B22 0.46	6 - 0.81 m		derately moist; W v, very fine (0-1m	eak consistend	ce; Mode	andy; Massive grade of erately plastic; Slightly sticky; 2mm) roots; Few, medium (2-
B3 0.81	- 1.16 m	Yellowish red (5YR4/6-Mois fabric; Moderately moist; We meter);				
C 1.16	6 - 1.41 m	Light yellowish brown (10YF 6 (pH meter);	R6/4-Moist); ; Cla	yey coarse sai	nd; Non-	plastic; Non-sticky; Field pH
Morpholog	ical Note	S				
B3 C		Muscovite mica common in s Augered to substrate to 1.4n				
Observatio	n Notos					

Observation Notes Pit located between plots. Ash seedling.Trial planted off-site into predominantly mountain gum forest type.

Project Name:BAGO-MARAGLE ESMProject Code:BGM_ESMSite ID:100Agency Name:CSIRO Division of Soils (ACT) 1009

Observation ID: 1

Site Notes VI/1.17, ALPINE ASH SPACING TRIAL

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Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeab Mg	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	ou	mg	ĸ		(+)/kg			%
0.01 - 0.09	4.46C 5.25A		5.75H	2.25	1	0.09	2.15J 0K		11.24E	
0.11 - 0.21	4.2C 5.13A		1.6H	1.12	0.66	0.07	2.98J 0K		6.42E	
0.31 - 0.39	3.87C 4.79A		0.16H	0.58	0.63	0.07	4.09J 0K		5.53E	
0.61 - 0.71	3.77C 4.78A		0.06H	0.5	0.46	0.07	3.55J 0K		4.64E	
0.91 - 1.01	3.77C 4.76A		0.04H	0.28	0.36	0.08	2.67J 0K		3.43E	
1.31 - 1.41	4.33C 5.17A		0.06H	0.05	0.28	0.06	0.33J 0K		0.78E	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Par	ticle	Size	Analysi	s
		C	P	P	N	ĸ	Density	GV	cs	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0.01 - 0.09		7.24B		867.8B	0.3A		0.95	3.12				
0.11 - 0.21		3.4B		715.5B	0.14A		1.02	0.22				
0.31 - 0.39		1.31B		494B	0.07A		1.20	1.94				
0.61 - 0.71		0.41B		404.7B	0.03A		1.43	0.56				
0.91 - 1.01		0.15B		356.7B	0.02A		1.58	4.66				
1.31 - 1.41		0.14B		492.6B	0.01A			17.96				

Depth	COLE	Gravimetric/Volumetric Water Contents							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	3			mm/h	mm/h

0.01 - 0.09
0.11 - 0.21
0.31 - 0.39
0.61 - 0.71
0.91 - 1.01
1.31 - 1.41

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Laboratory Analyses Completed for this profile

15_NR 15E1_AL 15E1_CA 15E1_H 15E1_K	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 H - by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_K	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

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