Project Name:	Soils of the Lo	wer Macqua	arie Valle	ey, New South Wales	
Project Code: Agency Name:	Macquarie CSIRO Divisio	Site ID: n of Soils (A	501 ACT)	Observation ID:	1

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Site	Into	rmation
0.00		manon

Site Informatio	<u>n</u>			
Desc. By:	N.J. McKenzie	Locality:		
Date Desc.:	30/11/85	Elevation: Rainfall:	No Data	
Map Ref.: Northing/Long.:	Sheet No. : 8434 1:10000 6472400 AMG zone: 55	Runoff:	No Data Slow	
Easting/Lat.:	575500 Datum: AGD66	Drainage:	Moderately well di	rained
Geology	brooco Balani reboo	Brunuge.	were a	
ExposureType:	Soil pit	Conf. Sub. is Pare	nt. Mat.: No Data	2
Geol. Ref.:	No Data	Substrate Material		
Land Form				
Rel/Slope Class:	No Data	Pattern Type:	No Data	
Morph. Type:	Lower-slope	Relief:	No Data	
Elem. Type:	No Data	Slope Category:	No Data	
Slope:	%	Aspect:	No Data	
Surface Soil C	ondition (dry): Hardsetting			
Erosion: Stab	le, Minor or present (wind);			
Soil Classifica	tion			
Australian Soil C	lassification:	Mannii	ng Unit:	OLD ALLUVIUM
N/A		mappi	ig onit.	MEANDER PLAIN
		Princir	al Profile Form:	Dy3.13
ASC Confidence	2.		Soil Group:	N/A
Confidence level		er our t	oon oroup:	
	ce: Complete clearing. Pasture, nat	ive or improved, culti	vated at some stag	e
Vegetation:	<u> </u>			
vegetation.	Tall Strata - Tussock grass, 0.2	6-0.5m. Sparse, *Spe	ecies includes - Nor	ne Recorded
Surface Coars	C			
Profile Morpho				
A1 0 - 0.25 m Dark reddish brown (5YR3/3-Moist); ; Sandy clay loam (Light); Weak grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Many (>5 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 0.01m2) Medium (2-5mm) macropores, Moist; Weak consistence; Field pH 7 (Raupach); Many, very fine (0-1mm) roots; Many, fine (1-2mm) roots; Gradual, Smooth change to -			fine (0.075-1mm) w (<1 per 0.01m2) Medium	
A2 0.25 - 0.	47 m Dark brown (7.5YR3/4-Mois structure, 20-50 mm, Suba (0.075-1mm) macropores, N 0.01m2) Medium (2-5mm) n very fine (0-1mm) roots; Ma	ngular blocky; Earthy /lany (>5 per 100mm nacropores, Moist; W	r fabric; Many (>5 p 2) Fine (1-2mm) ma eak consistence; F	er 100mm2) Very fine acropores, Few (<1 per ield pH 7 (Raupach); Many,
B21 0.47 - 0.	8 m Strong brown (7.5YR5/6-Mo structure, 20-50 mm, Angula 100mm2) Fine (1-2mm) ma >50% of ped faces or walls Nodules; Common (10 - 20 (Raupach); Many, very fine to -	ar blocky; Smooth-pe cropores, Moderately coated; Common (10 %), Calcareous, Coa	d fabric; Fine, (0 - 5 moist; Very firm cc - 20 %), Calcareou rse (6 - 20 mm), No	5) mm crack; Few (<1 per onsistence; Many cutans, us, Medium (2 -6 mm), odules; Field pH 8.5
B22 0.8 - 1.3	structure, 20-50 mm, Prisma 100mm2) Very fine (0.075-1 cutans, >50% of ped faces of	atic; Smooth-ped fabr Imm) macropores, M or walls coated; Few anganiferous, Coarse	ic; Fine, (0 - 5) mm oderately moist; Ve (2 - 10 %), Calcare	crack; Few (<1 per ry firm consistence; Many
Morphological	Notes			

A1 Drab hetereogeneous colour in B with heaps of Mn conc's. Mn/Fe conc's are a feature.

Observation Notes Mitchell Soil Profile Class, Moderately Drained Phase

Site Notes

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Project Code: Agency Name:	Macquarie CSIRO Division	••		Observation ID:	1
Ageney Name.			01)		

Laboratory Test Results:

Depth	рН	1:5 EC		nangeable Ng	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+				%
0.1 - 0.15 0.3 - 0.35	7.3A 7.6A	0.053A 0.028A	2.6E	0.4	1.1	0.3			4.4D	
0.7 - 0.75 1.3 - 1.35	8.8A 9.1A	0.164A 0.219A	10.3E	7.2	1.9	0.9			20.3D	
Depth	CaCO3	Organic	Avail.	Total	Total	Total		Partic		
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV C	S FS %	Silt Clay
0.1 - 0.15 0.3 - 0.35							1.60 1.66	36	.8A 37.4	10.3 15.5
0.7 - 0.75 1.3 - 1.35							1.58 1.72	22	.5A 19.6	5.1 52.8

1	.3	-	1	.3

Depth	COLE	Gravimetric/Volumetric Water Contents		K sat	K unsat
m		Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar g/g - m3/m3	15 Bar	mm/h	mm/h
0.1 - 0.15 0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	0.035A 0.028A 0.046A 0.043A	0.14G 0.11G 0.2G 0.17G	0.06D 0.05D 0.17D 0.16D		

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Laboratory Analyses Completed for this profile

15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15J_BASES	Sum of Bases
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method
P3A1	Bulk density - g/cm3
P3B1GV_15	15 BAR Moisture g/g - Gravimetric of ground sample (<2mm) using pressure plate
P3B4GV_01	0.1 BAR Moisture g/g - Gravimetric of soil clods (Soil Survey Staff,1967)
P5_COLE	Coefficient of Linear Extensibility (Grossman et al. 1968)