Project Name:	Soils of the Lo	wer Macqua	arie Val	ley, New South Wales	
Project Code: Agency Name:	Macquarie CSIRO Divisio	Site ID: n of Soils (A		Observation ID:	1

Site In	<u>nformatio</u>	<u>1</u>						
Desc.	•	N.J. McKenzie		Locality:				
Date D		09/12/85		Elevation:	No Data			
Map R				Rainfall:	No Data			
	ng/Long.:	6481500 AMG zone:		Runoff:	Slow	ساء المن		
Eastin	•	582100 Datum: AGI	J66 I	Drainage:	Moderately v	vell ar	ained	
<u>Geolo</u>						_		
•	ureType:	Soil pit		Conf. Sub. is Pare		o Data		
Geol. I		No Data		Substrate Materia	I: No	o Data	1	
Land	<u>Form</u>							
	ope Class:	No Data		Pattern Type:	No Data			
	. Type:	Mid-slope		Relief:	No Data			
Elem.	••	No Data		Slope Category:	No Data			
Slope:		%		Aspect:	No Data			
<u>Surfa</u>	<u>ce Soil Co</u>	ndition (dry): Firm	n					
Erosi Soil C	on: Iassificati	on						
							TRANQUE	
	lian Soil C	assification:		Mappi	ng Unit:		TRANGIE	
N/A							COWAL ALLUVIUM	
					pal Profile Fo	rm:	Uf1.13	
	Confidence			Great	Soil Group:		N/A	
		not specified						
Site D	listurbanc	e: Extensive clearing	, for example p	oisoning, ringbarki	ng			
Veget	ation:							
			12.01-20m, Sp	arse. *Species incl	udes - Eucalyp	otus ca	amaldulensis	
Surfa	ce Coarse	Fragments:						
Profile	e Morphol	ogy						
A1	0 - 0.1 m							
A2	0.1 - 0.46	Earthy fabric; I 100mm2) Fine Moderately mo Common, fine	Brown (7.5YR4/3-Moist); ; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Many (>5 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 0.01m2) Medium (2-5mm) macropores, Moderately moist; Weak consistence; Field pH 7 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Common, coarse (>5mm) roots; Sharp, Smooth change to -					
2B2	0.46 - 0.6	D.65 m Brown (7.5YR4/3-Moist); ; Medium clay; Weak grade of structure, 10-20 mm, Platy; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Many (>5 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 0.01m2) Medium (2-5mm) macropores, Moderately moist; Weak consistence; Field pH 7.5 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Common, coarse (>5mm) roots; Clear, Smooth change to -						
3A	0.65 - 0.9	Common (1-5 (1-2mm) mac	per 100mm2) \ ropores, Few (-	/ery fine (0.075-1m <1 per 0.01m2) Me	m) macropore dium (2-5mm)	s, Cor macre	10-20 mm; Earthy fabric; mmon (1-5 per 100mm2) Fine opores, Moist; Firm Gradual, Smooth change to	
3B	0.95 - 1.3	Polyhedral; Ea (<1 per 0.01m)	urthy fabric; Cor 2) Medium (2-5	mmon (1-5 per 100	mm2) Very fine Wet; Firm cons	e (0.0 sisten	structure, 10-20 mm, 75-1mm) macropores, Few ce; Few cutans, <10% of -1mm) roots;	
<u>Morpl</u>	nological	<u>Notes</u>						
A1		Buried grey soi bands = in eac	h band there is	al bands to 67 cms usually a laminate basis of sig texture	d layer (1-2cm			

Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID: 537Observation ID: 1Agency Name:CSIRO Division of Soils (ACT)

Macquarie Soil Profile Class <u>Site Notes</u>

Project Name:	Soils of the Lo	wer Macqua	arie Valley	v, New South Wales
Project Code:	Macquarie	Site ID:	537	Observation ID: 1
Agency Name:	CSIRO Divisior	n of Soils (A	NCT)	

## Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeable Mq	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ja	Mg	N	Cmol (+				%
0.1 - 0.15 0.3 - 0.35	7A 7.6A	0.037A 0.043A	7.2E	3.9	0.6	0.1			11.8D	
0.7 - 0.75 1.3 - 1.35	7.5A 7.4A	0.036A 0.049A	9.6E	4.6	0.3	0.3			14.8D	
Depth	CaCO3	Organic	Avail.	Total	Total	Tota	l Bulk	Particle	Size Analys	sis

		С	Р	Р	Ν	к	Density	GV	CS	FS	Silt	Clay	
m	%	%	mg/kg	%	%	%	Mg/m3			%			
0.1 - 0.15							1.43		16.5A	37.7	17.6	3 28.2	
0.3 - 0.35							1.23						
0.7 - 0.75							1.39		2.6A	43.7	24.3	29.3	
1.3 - 1.35							1.56						

Depth	COLE	Gravimetric/Volume	K sat	K unsat	
m		Sat. 0.05 Bar 0.1 Bar 0.5 I g/g - n	 15 Bar	mm/h	mm/h
0.1 - 0.15 0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	0.041A 0.091A 0.01A 0.06A	0.18G 0.26G 0.22G 0.21G	0.12D 0.15D 0.13D 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)