Project	t Name: t Code: y Name:	Soils of the Lower Macquar Macquarie Site ID: CSIRO Division of Soils (AC	539 C	South Wales Observation ID: 1				
Desc. B Date De Map Re Northin Easting	sc.: 0 f.: 5 g/Long.: 6 /Lat.: 5	N.J. McKenzie )9/12/85 Sheet No. : 8434 1:10000 5482067 AMG zone: 55 582583 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	No Data No Data Moderate Well drair				
<u>Geolog</u> Exposu Geol. Re	reType: S	Soil pit No Data	Conf. Sub. is Parent. Mat.: No Da Substrate Material: No Da					
Morph. Elem. Ty Slope:	pe Class:   Type:   ype:	No Data Flat No Data %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data				
		dition (dry): Hardsetting, Rec	ently cultivated					
Erosio Soil Cla	<u>n:</u> assificatio	n						
Australi N/A	an Soil Cla	ssification:	Mapping Unit:			TRANGIE COWAL ALLUVIUM		
	onfidence: ence level no	ot specified	Principal Profile Form: Great Soil Group:			Gn4.12 N/A		
		Complete clearing. Pasture, nat	ive or improved, cul	tivated at sc	ome stag	e		
<u>Vegeta</u>	tion:	Tall Strata - Tussock grass, 0.2	6-0.5m Sparse *Sr	pecies inclu	des - Nor	ne Recorded		
Surface	e Coarse F	Fragments:						
-	Morpholo							
A11p	0 - 0.08 m	Dark brown (7.5YR3/4-Mois blocky; Earthy fabric; Comm (1-5 per 100mm2) Fine (1-2 Many, very fine (0-1mm) roc	non (1-5 per 100mm mm) macropores, M	2) Very fine loist; Weak	(0.075-1 consiste	mm) macropores, Common nce; Field pH 7 (Raupach);		
A12	0.08 - 0.26	0.26 m Dark reddish brown (5YR3/2-Moist); ; Medium clay; Moderate 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; Few cutans, <10% of ped faces or walls coated; Field pH 7.5 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Clear, Smooth change to -						
B21	821 0.26 - 0.56 m Reddish brown (5YR4/4-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Polyhedral; Rough-ped 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, Moderately moist; Weak consistence; Many cutans, >50% of ped faces or walls coated; Field pH 7.5 (Raupach); Common, very fine (0-1mm) roots; Clear, Smooth change to -							
B22	B22 0.56 - 1.4 m Brown (7.5YR4/4-Moist); ; Light medium clay; Weak grade of structure, 10-20 mm, Polyhedral; Rough-ped 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, Wet; Weak consistence; Few cutans, <10% of ped faces or walls coated; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 8 (Raupach); Common, very fine (0-1mm) roots							
<u>Morpho</u> A11p	ological N	otes Like 538, many infilled chanr	nels @ depth.					
<u>Observ</u>	vation Note	es						
Wilda So	oil Profile Cl	ass, Calcic Phase						

Wilga Soil Profile Class, Calcic Phase

Site Notes

Project Name:	Soils of the Lov	wer Macqua	arie Valley, New	South Wales	
Project Code: Agency Name:	Macquarie CSIRO Division	••	539 (CT)	Observation ID:	1
Ageney Nume:					

## Laboratory Test Results:

Depth	рН	1:5 EC		hangeable Mq	Cations K	Exchangeabl Na Acidity	e CEC	ECEC	ESP
m		dS/m	Ju	ing .	N	Cmol (+)/kg			%
0.1 - 0.15	6.6A	0.052A	6E	1.2	1.3	0.1		8.6D	
0.3 - 0.35 0.7 - 0.75	7.6A 8.8A	0.033A 0.086A	14.6E	4	0.3	0.1		19D	
1.3 - 1.35	9.3A	0.174A							
Depth	CaCO3	Organic	Avail.	Total	Total	Total Bulk	Particle		Analysis
m	%	C %	P mg/kg	P %	N %	K Density % Mg/m3		FS %	Silt Clay

0.1 - 0.15 0.3 - 0.35	1.47 1.50	6.5A	32.9	35.1 25.5
0.7 - 0.75 1.3 - 1.35	1.39 1.47	1A	33.1	37.5 28.4

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
0.1 - 0.15	0.042A			0.19G				0.12D		
0.3 - 0.35	0.061A			0.23G				0.19D		
0.7 - 0.75	0.047A			0.24G				0.14D		
1.3 - 1.35	0.02A			0.25G				0.17D		

## Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID: 539Observation ID: 1Agency Name:CSIRO Division of Soils (ACT)

## 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)