Project Name: Project Code: Agency Name:	Soils of the Lower Macquar Macquarie Site ID: CSIRO Division of Soils (AC	340 O	outh Wales bservation ID:	1	
Date Desc.: Map Ref.: Northing/Long.:	N.J. McKenzie 04/09/85 Sheet No. : 8434 1:10000 6471650 AMG zone: 55 591650 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	No Data No Data Very slow Poorly drained		
ExposureType: Geol. Ref.:	Soil pit No Data	Conf. Sub. is Parent. Mat.:No DatSubstrate Material:No Dat			
Land Form Rel/Slope Class: Morph. Type: Elem. Type: Slope:	No Data Lower-slope No Data %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data		
Surface Soil Co	ndition (dry): Firm, Hardsetting	)			
Erosion:	- <b>-</b> -				
Soil Classification Australian Soil Cla N/A		Маррі	ng Unit:	TRANGIE COWAL ALLUVIUM	
ASC Confidence:       Gn4.32         Confidence level not specified       Great Soil Group:       N/A         Site Disturbance:       Complete clearing. Pasture, native or improved, cultivated at some stage					
Vegetation:	Tall Strata - Tussock grass, <0.	•	C C		
Surface Coarse	•				
Profile Morphole	ogy				
A1 0 - 0.2 m	Dark brown (7.5YR3/4-Moist); ; Silty clay; Moderate grade of structure, 50-100 mm, Subangular blocky; Rough-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 0.01m2) Medium (2-5mm) macropores, Moist; Weak consistence; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Gradual, Smooth change to -				
B21 0.2 - 0.6 r	<ul> <li>0.2 - 0.6 m Dark brown (7.5YR3/3-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Few (&lt;1 per 0.01m2) Medium (2-5mm) macropores, Moist; Firm consistence; Field pH 6.5 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Diffuse, Smooth change to -</li> </ul>				
B22 0.6 - 1 m Brown (7.5YR4/4-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 0.01m2) Medium (2-5mm) macropores, Moist; Firm consistence; Common cutans, 10-50% of ped faces or walls coated; Field pH 7 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1- 2mm) roots; Gradual, Smooth change to -					
B3 1 - 1.4 m	Brown (7.5YR4/4-Moist); , 7.5YR53, 10-20%, 5-15mm, Faint; Medium clay; Moderate grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 0.01m2) Medium (2-5mm) macropores, Moderately moist; Weak consistence; Common cutans, 10-50% of ped faces or walls coated; Field pH 7.5 (Raupach); Few, very fine (0-1mm) roots;				
Morphological N A1	No CaCO3. This site was fl		was not. B21= B	22??. The B3 is these	
soils has a puffy stickiness - high silt? <u>Observation Notes</u> Wilga Soil Profile Class, Non-Calcic Phase					

Wilga Soil Profile Class, Non-Calcic Phase Site Notes

Project Name:	Soils of the Lo	wer Macqua	arie Valle	ey, New South Wales	
Project Code:	Macquarie	Site ID:	340	Observation ID: 1	1
Agency Name:	CSIRO Divisio	n of Soils (A	NCT)		

## Laboratory Test Results:

Depth	pН	1:5 EC		hangeable Mg	Cations K	E: Na	xchangeable Acidity	CEC		ECEC	ESP
m		dS/m	Ga	wig	ĸ	Cmol (+)/					%
0.1 - 0.15 0.3 - 0.35	6A 6.6A	0.149A 0.036A	5.4E	1.2	1.9	0.1				8.6D	
0.7 - 0.75 1.3 - 1.35	7.3A 8.3A	0.057A 0.04A	13.7E	8	0.4	0.1				22.2D	
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	article CS	Size A FS	nalysis Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0.1 - 0.15 0.3 - 0.35							1.31 1.50		3.5A	34.7	36.7 25.2
0.7 - 0.75 1.3 - 1.35							1.53 1.60		1.6A	26	33.4 39
Depth	COLE		Grav	imetric/Vo	olumetric V	Vater Conte	ents		K si	at I	K unsat
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar g - m3/m3	1 Bar 3	5 Bar 15	Bar	mm	/h	mm/h

0.1 - 0.15	0.046A	0.26G	0.09D
0.3 - 0.35	0.035A	0.19G	0.09D
0.7 - 0.75	0.057A	0.23G	0.13D
1.3 - 1.35	0.055A	0.21G	0.14D

## Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID: 340Observation 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)