Project Name: Project Code:	Soils of the Lower Macqua Macquarie Site ID:		outh Wales Observation ID:	1			
Agency Name:	CSIRO Division of Soils (A						
Site Information	<u>n</u>						
Desc. By:	N.J. McKenzie	Locality:					
Date Desc.: Map Ref.:	13/06/85 1:10000	Elevation: Rainfall:	No Data No Data				
Northing/Long.:		Runoff:	Slow				
Easting/Lat.:	596967 Datum: AGD66	Drainage:	Moderately well d	Irained			
<u>Geology</u>							
ExposureType: Geol. Ref.:	Soil pit No Data	Conf. Sub. is Pare Substrate Materia					
Land Form	No Dala	Substrate Materia	II. NO Dat	d			
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 Co							
Soil Classificat	e, Minor or present (wind); <b>ion</b>						
Australian Soil C	lassification:	Марр	ing Unit:	GIN GIN			
N/A				AEOLIAN			
				DEPOSITS			
			ipal Profile Form:	Gn4.13			
ASC Confidence Confidence level		Great	Soil Group:	N/A			
	:e: Cultivation. Rainfed						
Vegetation:							
	Tall Strata - Tussock grass, 0.2	26-0.5m, Sparse. *Sp	becies includes - No	ne Recorded			
Surface Coarse							
Profile Morpho							
A11 0 - 0.3 m	Dark reddish brown (5YR3/ Subangular blocky; Earthy Many (>5 per 100mm2) Fir	fabric; Many (>5 per	100mm2) Very fine	(0.075-1mm) macropores,			
	Many, very fine (0-1mm) ro						
A12 0.3 - 0.4							
	Field pH 7 (Raupach); Fev			acropores, Firm consistence; oth change to -			
B21 0.4 - 1.1	Rough-ped fabric; Few (<1	Yellowish red (5YR3/6-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Firm consistence; Field pH 7.5 (Raupach); Few, very fine (0-1mm) roots;					
B22 1.1 - 1.5	m Yellowish red (5YR4/6-Moi	st); ; Light clay; Field	pH 8.5 (Raupach);				
	N1						

Morphological Notes A11 Very uniform looking profile

**Observation Notes** 

Mitchell Soil Profile Class, Moderately Drained Phase, Wheat - fallow. This side of valley appears to have the deep soil. Site Notes

Project Name:	Soils of the Low	er Macqua	rie Valley, New	South Wales	
Project Code:		••		Observation ID:	1
Agency Name:	CSIRO Division	of Solis (Ad	(1)		

## Laboratory Test Results:

Depth	рН	1:5 EC		changeable			changeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	К	Na Cmol (+)/	Acidity kg			%
0.1 - 0.15	6.2A	0.038A	4.4E	0.2	0.6	0			5.2D	
0.3 - 0.35	6.7A	0.025A								
0.7 - 0.75	8.5A	0.039A	6.5E	6.8	0.3	1.7			15.3D	
1.3 - 1.35	9.2A	0.24A								
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particl	e Size Aı	nalysis
		С	Р	Р	Ν	ĸ	Density	GV CS		Silt Clay
m	%	%	ma/ka	%	%	%	Ma/m3		%	

	70	70	iiig/kg	70	70	70	Mg/III5		70			
0.1 - 0.15							1.62	20.2A	38.9	14	27	
0.3 - 0.35							1.59					
0.7 - 0.75							1.52	14.1A	26.4	10.4	49.2	
1.3 - 1.35							1.52					

Depth	COLE	Gravimetric/Volumetric Water Contents				ic/Volumetric Water Contents K sa			
m		Sat. 0.05 Bar	0.1 Bar   0.5 Bar g/g - m3/m3	1 Bar }	5 Bar	15 Bar	mm/h	mm/h	
0.1 - 0.15 0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	0.024A 0.043A 0.042A 0.053A		0.15G 0.17G 0.2G 0.21G			0.09D 0.09D 0.17D 0.2D			

## Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID: 206Observation 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)