Project Name:	Soils of the Lo	ower Macqua	arie Valle	ey, New South Wales	
Project Code: Agency Name:	Macquarie CSIRO Divisio	Site ID: on of Soils (A	102 ACT)	Observation ID:	1

Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:	N.J. McKenzie 21/02/85 Sheet No. : 8534 1:100000 6458583 AMG zone: 55 590200 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	No Data No Data No Data No Data		
<u>Geology</u> ExposureType: Geol. Ref.:	Soil pit No Data	Conf. Sub. is Pare Substrate Material			
Land Form Rel/Slope Class: Morph. Type: Elem. Type: Slope: Surface Soil Co Erosion:		Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data		
Soil Classificat	ion				
Australian Soil C N/A	lassification:		ng Unit:	OLD ALLUVIUM MEANDER PLAIN Dr2.12	
ASC Confidence Confidence level	not specified	Great	Principal Profile Form: D Great Soil Group: N		
	e: Complete clearing. Pasture, nat	tive or improved, culti	vated at some sta	age	
Vegetation:	Tall Strata Hummaak groop	260 Em *Species	ingludga Nong F	Papardad	
Surface Coarse	Tall Strata - Hummock grass, 0	1.20-0.5111, . Species	includes - None r	Recorded	
Profile Morphol					
A11 0 - 0.2 m	Dark brown (7.5YR3/4-Mois	fabric; Fine, (0 - 5) m	m crack; Very we	structure, 100-200 mm, ak consistence; Field pH 7.5	
A12 0.2 - 0.45	<ul> <li>- 0.45 m Dark reddish brown (5YR3/4-Moist); ; Sandy clay (Light); Weak grade of structure, 100-200 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Fine, (0 - 5) mm crack; Very weak consistence; Field pH 6.5 (Raupach); CommonAbrupt, Smooth change to -</li> </ul>				
B21 0.45 - m Yellowish red (5YR3/5-Moist); , 10-20% , 15-30mm, Faint; Medium clay; Moderate grade of structure, Angular blocky; Smooth-ped fabric; Weak consistence; 0-2%, coarse fragments; Common cutans, 10-50% of ped faces or walls coated; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7 (Raupach); Few					
B22 - m	Yellowish red (5YR4/6-Moist); , 10-20% , 15-30mm, Faint; Medium clay; Moderate grade of structure, Angular blocky; Smooth-ped fabric; Weak consistence; 0-2%, coarse fragments; Common cutans, 10-50% of ped faces or walls coated; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 8 (Raupach); Gradual, Smooth change to -				
Morphological	Notes				

## Morphological Notes

Observation Notes Mitchell Soil Profile Class, Well Drained Phase

Site Notes

Project Name:	Soils of the Low	/er Macqua	rie Valley, New	South Wales	
Project Code: Agency Name:	Macquarie CSIRO Division	Site ID:	102 CT)	Observation ID:	1
Agency Name.	CONC DIVISION		01)		

## Laboratory Test Results:

Depth	рН	1:5 EC		nangeable /Iq	Cations K	E: Na	changeable Acidity	CEC	ECEC	ESP
m		dS/m		ng	ĸ	Cmol (+)/				%
0.1 - 0.15	7.1A	0.073A	0.5E	0.1	0.8	0.1			1.5D	
0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	6.9A 7.7A 8.5A	0.038A 0.032A 0.064A	5.9E	5.3	0.3	0.4			11.9D	
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV CS	FS	nalysis Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0.1 - 0.15 0.3 - 0.35							1.70 1.71	42.6	6A 34.1	9.9 13.4
0.7 - 0.75 1.3 - 1.35							1.67 1.46	26.2	2A 25.7	12.4 35.7
Depth	COLE		Gravi	imetric/Vo	olumetric V	Vater Conte	ents	к	sat k	( unsat

m	Sat. 0.0	5 Bar 0.1 Bar 0.5 Bar g/g - m3/n	15 Bar	mm/h	mm/h
0.1 - 0.15         0.024/           0.3 - 0.35         0.017/           0.7 - 0.75         0.052/           1.3 - 1.35         0.078/	A A	0.11G 0.13G 0.16G 0.21G	0.05D 0.06D 0.13D 0.13D		

## Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID:102Observation 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)