Project Name:	Soils of the L	ower Macqu	arie Valley,	New South Wales	
Project Code: Agency Name:	Macquarie CSIRO Divisio	Site ID: on of Soils (/	518 ACT)	Observation ID:	1
0:1					

Site Information	<u>on</u>				
Desc. By:	N.J. McKenzie	Locality:			
Date Desc.:	03/12/85	Elevation:	No Data		
Map Ref.:	Sheet No. : 8434 1:10000 6476120 AMG zone: 55	Rainfall: Runoff:	No Data Slow		
Northing/Long.: Easting/Lat.:	578750 Datum: AGD66	Drainage:	Well drained		
Geology	STOTO Datam. AGDOO	Dramage.	Weil dramed		
ExposureType:	Soil pit	Conf. Sub. is Pare	nt. Mat.: No Dat	a	
Geol. Ref.:	No Data	Substrate Material			
Land Form					
Rel/Slope Class	No Data	Pattern Type:	No Data		
Morph. Type:	Flat	Relief:	No Data		
Elem. Type:	No Data	Slope Category:	No Data		
Slope:	%	Aspect:	No Data		
Surface Soil C	ondition (dry): Hardsetting				
Erosion:					
Soil Classifica	tion				
Australian Soil (		Manni	ng Unit:	OLD ALLUVIUM	
N/A		Mappi	ng onn.	MEANDER PLAIN	
		Princi	pal Profile Form:	Dr2.12	
ASC Confidenc	e.		Soil Group:	N/A	
Confidence level		orout	een ereup:		
Site Disturban	ce: Complete clearing. Pasture,	native or improved, but	never cultivated		
Vegetation:					
	Tall Strata - Tussock grass,	0.51-1m, Sparse. *Spec	cies includes - None	Recorded	
Surface Coars	e Fragments:				
Profile Morpho	logy				
A11 0 - 0.11		/loist): : Sandv clav: Wea	ak arade of structur	e, 10-20 mm, Platy; Earthy	
	fabric; Common (1-5 pe				
	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; Common, n	nedium (2-5mm) roots; C	Clear, Smooth chan	ge to -	
A12 0.11 - 0	.28 m Red (2.5YR4/5-Moist); ;	Sandv clav: Moderate a	rade of structure. 2	0-50 mm. Subangular	
				1mm) macropores, Many (>5	
				dium (2-5mm) macropores,	
	Moist; Weak consistence				
			common, fine (1-2m	m) roots; Common, medium	
	(2-5mm) roots; Clear, Sr	nooth change to -			
B21 0.28 - 0	.6 m Red (2.5YR4/6-Moist); ;	Medium clay; Moderate	grade of structure,	10-20 mm, Angular blocky;	
				m) macropores, Common (1-	
				consistence; Many cutans,	
	>50% of ped faces or wa		Raupach); Few, ver	y fine (0-1mm) roots;	
	Diffuse, Smooth change	10 -			
B22 0.6 - 1.3	5 m Red (2.5YR4/5-Moist); ;	Medium clay; Moderate	grade of structure,	10-20 mm, Angular blocky;	
	Rough-ped fabric; Few (				
	consistence; Many cutar				
	- 2 mm), Soft segregation			%), Manganiferous, Fine (0 -1mm) roots:	
		יוס, דוטוט איז ט (ולמטאמט	i), i cw, very nile (0		
Morphological	Notes				
<b>Observation N</b>	<u>otes</u>				
	lo Class, Woll Drainod Phase				

Mitchell Soil Profile Class, Well Drained Phase Site Notes

Project Name:	Soils of the Low	er Macqua	rie Valley, New	South Wales	
Project Code:		Site ID:		Observation ID:	1
Agency Name:	CSIRO Division	of Solis (A	61)		

## Laboratory Test Results:

Depth	рН	1:5 EC		angeable Iq	Cations K	Ex Na	changeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca IV	''y	ĸ	Cmol (+)/				%
0.1 - 0.15	6.8A	0.03A	-	0.5	0.8	0.3			3.5D	
0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	7.7A 8.3A 8.5A	0.02A 0.12A 0.05A	10E	3.4	0.7	0.2			14.3D	
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particl GV CS	FS S	alysis Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0.1 - 0.15 0.3 - 0.35							1.70 1.77	30.	8A 37.1	13 19.2
0.7 - 0.75 1.3 - 1.35							1.67 1.71	22.	2A 23.6	8.5 45.7
Depth	COLE		Gravi	metric/Vo	lumetric V	Vater Conte	nts	P	Ksat K	unsat

m	Si	at. 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	0.029A 0.058A 0.054A 0.041A		0.12G 0.12G 0.16G 0.18G		0.06D 0.08D 0.14D 0.14D		

## Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID: 518Observation 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)