Project Name:	Soils of the Lo	ower Macqua	arie Vall	ey, New South Wales	
<b>Project Code:</b>	Macquarie	Site ID:	215	Observation ID:	1
Agency Name:	CSIRO Divisio	on of Soils (A	ACT)		

Site Informatio	n				
Desc. By:	N.J. McKenzie	Locality:			
Date Desc.:	16/06/85	Elevation:	No Data		
Map Ref.:	Sheet No. : 8534 1:10000	Rainfall:	No Data	ام: محمد ا	
Northing/Long.: Easting/Lat.:	6463100 AMG zone: 55 601800 Datum: AGD66	Runoff: Drainage:	Moderate Well drai		
0	borboo Datum. AGDoo	Diamaye.		leu	
<u>Geology</u> ExposureType:	Soil pit	Conf. Sub. is Pare	nt Mat ·	No Dat	2
Geol. Ref.:	No Data	Substrate Material		No Dat	
Land Form	No Bala	oubstrate materia	•	No Dui	Li
Rel/Slope Class:	No Data	Pattern Type:	No Data		
Morph. Type:	Mid-slope	Relief:	No Data		
Elem. Type:	No Data	Slope Category:	No Data		
Slope:	%	Aspect:	No Data		
Surface Soil Co	ondition (dry): Hardsetting				
Erosion: Stab	le, Minor or present (wind);				
Soil Classificat					
Australian Soil C		Manni	ng Unit:		GIN GIN
N/A		ινιαρρι	ng onn.		AEOLIAN
					DEPOSITS
		Princi	pal Profile	Form	Gn4.13
ASC Confidence			Soil Group		N/A
Confidence level		Oreat			11/7
Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage					
Vegetation:	<u> </u>				-
Tall Strata - Tussock grass, <0.25m, Sparse. *Species includes - None Recorded					
Surface Coarse Fragments:					
Profile Morpho	<u> </u>				
	iogy				

Profile	e Morphology	
A1	0 - 0.15 m	Yellowish red (5YR3/6-Moist); ; Sandy clay; Weak grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 0.01m2) Medium (2-5mm) macropores, Moderately moist; Weak consistence; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Diffuse, Smooth change to -
B1	0.15 - 0.65 m	Yellowish red (5YR4/8-Moist); ; Sandy clay; Weak grade of structure, 20-50 mm, Subangular blocky; 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, Dry; Weak consistence; Few cutans, <10% of ped faces or walls coated; Field pH 7 (Raupach); Common, very fine (0-1mm) roots; Diffuse, Smooth change to -
B2	0.65 - 1.35 m	Reddish yellow (7.5YR6/8-Moist); , 5YR46, 20-50% , 5-15mm, Distinct; Sandy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments; 2-10%, coarse gravelly, 20-60mm, subrounded, dispersed, coarse fragments; Few cutans, <10% of ped faces or walls coated; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 8.5 (Raupach); Few, very fine (0-1mm) roots;

 Morphological Notes

 B2
 Compacted bare surface - sheep - poor infiltration and very dry profile

Observation Notes Mitchell Soil Profile Class, Moderately 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 Soils (A	CT)		

## Laboratory Test Results:

Depth	рН	1:5 EC	Ex: Ca	changeable Mg	Cations K	E Na	xchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ja	ing	ĸ	Cmol (+)				%
0.1 - 0.15	5.9A	0.043A	2E	0.2	0.7	0			2.9D	
0.3 - 0.35	6.6A	0.022A								
0.7 - 0.75	8.4A	0.108A	3.9E	1.1	0.3	0.1			5.4D	
1.3 - 1.35	8.5A	0.199A								
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle	e Size /	Analysis
		С	Р	Р	Ν	ĸ	Density	GV CS		Silt Clay
m	%	%	ma/ka	%	%	%	Ma/m3		%	

	70	70	mg/kg	70	70	70	wg/ms		70			
0.1 - 0.15							1.70	32.8A	34.5	8.4	24.3	
0.3 - 0.35							1.61					
0.7 - 0.75							1.68	33.5A	27.9	7.5	31.1	
1.3 - 1.35							1.63					

Depth	COLE	Gra	Gravimetric/Volumetric Water Contents			
m		Sat. 0.05 Bar	0.1 Bar 0.5 Bar 1 Bar g/g - m3/m3	5 Bar 15 Bar	mm/h	mm/h
0.1 - 0.15 0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	0.011A 0.008A 0.023A 0.035A		0.11G 0.11G 0.14G 0.17G	0.07D 0.07D 0.08D 0.12D		

# Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID: 215Observation 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)