Project Name:	Soils of the Lo	ower Macqua	arie Val	ley, New South Wales	
Project Code: Agency Name:	Macquarie CSIRO Divisio	Site ID: on of Soils (A	-	Observation ID:	1

	Site	Inform	nation
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Site informat							
Desc. By:	N.J. McKenz	zie	Locality:				
Date Desc.:	04/12/85		Elevation:	No Data			
Map Ref.:	Sheet No. : 8		Rainfall:	No Data			
Northing/Long	: 6478040 AM	IG zone: 55	Runoff:	Very slow	N		
Easting/Lat.:	579050 Dat	tum: AGD66	Drainage:	Poorly d	rained		
Geology			-	-			
ExposureType	Soil pit		Conf. Sub. is Pa	ront Mat	No Dat	2	
Geol. Ref.:	No Data		Substrate Mater		No Dat		
Geol. Rel.:	NO Data		Substrate Mater	iai:	NO Dai	a	
Land Form							
<b>Rel/Slope Clas</b>	s: No Data		Pattern Type:	No Data			
Morph. Type:	Flat		Relief:	No Data			
Elem. Type:	No Data		Slope Category				
Slope:	%		Aspect:	No Data			
•	, .	y): Cracking, Self	•	No Data			
		VI. Cracking, Sei	r-muiching				
Erosion:	_						
Soil Classific	<u>ation</u>						
Australian Soil	<b>Classification:</b>		Мар	ping Unit:		OLD ALLUVIUM	
N/A						BACKPLAIN	
			Drin	cipal Profile	Form	Ug5.25	
				•			
ASC Confiden			Gre	at Soil Grou	p:	N/A	
Confidence lev	el not specified						
<u>Site Disturba</u>	nce: Cultivation	n. Rainfed					
Vegetation:							
	Tall Strat	a - Tussock grass	0.51-1m, Sparse. *Sp	ecies include	es - None	Recorded	
Surface Coor		0					
Surface Coar	se Fragments	<u>s.</u>					
Profile Morph	ology						
A1 0-0.1	m Brown	n (7.5YR4/3-Moist)	; ; Medium heavy clay	· Moderate c	rade of s	tructure, 10-20 mm.	
						Very fine (0.075-1mm)	
						s, Moist; Firm consistence;	
						-2mm) roots; Gradual,	
		oth change to -	iany, very line (0-1111	1) 100ts, Mai	y, nne (1		
	01100	in change to -					
B21 0.1 - 0	28 m Grevis	sh brown (10YR5/2	2-Moist); ; Heavy clay;	Strong grad	e of struc	ture, 50-100 mm.	
B21 0.1 0	,					100mm2) Very fine (0.075-	
						% of ped faces or walls	
			6), Calcareous, Mediu				
						aupach); Common, very fine	
			, fine (1-2mm) roots;				
	(0-111		i, inte (1-21111) 100is,	Gradual, Shi	ootn chai	ige to -	
B22 0.28 -	0.7 m Brown	n (7.5YR5/3-Moist):	; ; Heavy clay; Strong	grade of stru	ucture. 20	)-50 mm. Polvhedral:	
						ery fine (0.075-1mm)	
						, >50% of ped faces or	
						, Nodules; Common (10 - 20	
						5 (Raupach); Few, very fine	
			Smooth change to -	regations, m	eiu pi i o.	5 (Raupacil), i ew, very line	
	(0-111	, 10003, Dilluse, C					
B3 0.7 - 1	.35 m Yellov	wish red (5YR5/6-M	loist); ; Heavy clay; N	loderate arac	le of strue	cture, 20-50 mm.	
						075-1mm) macropores,	
						d faces or walls coated;	
						mmon (10 - 20 %), Gypseous,	
			ystals; Field pH 9 (Ra				
	Cuar	130 (0 - 20 mm), Cr	ystais, i ieiu pi i s (Ra	iupacii), rew	, very nne	. (	
	Notes						

## Morphological Notes

Observation Notes Mullah Soil Profile Class, Grey Phase, slight gilai 10 from cnr fence Site Notes

Project Name:	Soils of the Low	er Macqua	rie Valley, New	South Wales	
Project Code:	Macquarie	Site ID:	524	<b>Observation ID:</b>	1
Agency Name:	<b>CSIRO</b> Division	of Soils (A	CT)		

## Laboratory Test Results:

Depth	рН	1:5 EC		hangeable		Exchangeab	le CEC	ECEC	ESP
m		dS/m	Ca	Mg	к	Na Acidity Cmol (+)/kg			%
0.1 - 0.15 0.3 - 0.35	8.6A 9.2A	0.141A 0.297A	25.2E	6.4	1.5	0.4		33.5D	
0.7 - 0.75 1.3 - 1.35	9.2A 7.8A	0.733A 3.9A	13.2E	13.1	0.9	8.3		35.5D	
Depth m	CaCO3 %	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total Bulk K Densit % Mg/m3		Size Analy FS Silt %	

0.1 - 0.15	1.38	9.5A	28.3	11.3	50.9
0.3 - 0.35	1.38				
0.7 - 0.75	1.30	9.9A	25	11.2	53.9
1.3 - 1.35	1.32				

Depth	COLE	Gravimetric/Volumetric Water Contents	K sat	K unsat
m		Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Ba g/g - m3/m3	ar mm/h	mm/h
0.1 - 0.15 0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	0.111A 0.111A 0.147A 0.103A	0.3G0.190.3G0.210.35G0.220.33G0.22	D D	

## Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID:524Observation 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)