Project Name: Project Code: Agency Name:	Soils of the Lower Macquar Macquarie Site ID: CSIRO Division of Soils (Ad	339 O	outh Wales bservation ID:	1		
Site Information Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:	N.J. McKenzie 04/09/85 Sheet No. : 8434 1:10000	Locality: Elevation: Rainfall: Runoff: Drainage:	No Data No Data Very slow Moderately well d	rained		
<u>Geology</u> ExposureType: Geol. Ref.:	Soil pit No Data	Conf. Sub. is Pare Substrate Materia				
Land Form Rel/Slope Class: Morph. Type: Elem. Type: Slope:	Lower-slope No Data %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data			
Surface Soil Co Erosion:	ondition (dry): Firm, Hardsetting	9				
Soil Classificat	ion					
Australian Soil C N/A	lassification:	Маррі	ng Unit:	TRANGIE COWAL ALLUVIUM		
ASC Confidence Confidence level Site Disturbanc Vegetation:		Great	pal Profile Form: Soil Group: ivated at some stag	Dr2.13 N/A e		
Surface Coarse	Tall Strata - Tussock grass, 0.2 Fragments:	26-0.5m, Sparse. *Sp	ecies includes - Nor	ne Recorded		
Profile Morpho	logy					
A1 0 - 0.28 r		fabric; Many (>5 per Fine (1-2mm) macro	100mm2) Very fine pores, Moist; Weak	(0.075-1mm) macropores, consistence; Field pH 6.5		
B21 0.28 - 0.8	B3 m Dark brown (7.5YR3/4-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 0.01m2) Fine (1-2mm) macropores, Moist; Firm consistence; Many cutans, >50% of ped faces or walls coated; Field pH 7.5 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Clear, Smooth change to -					
B22 0.83 - 1.2	25 m Strong brown (7.5YR4/5-Moist); ; Sandy clay; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 0.01m2) Fine (1-2mm) macropores, Dry; Weak consistence; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8 (Raupach); Common, very fine (0-1mm) roots; Gradual, Smooth change to -					
B23 1.25 - 1.4	 1.4 m Strong brown (7.5YR4/5-Moist); ; Sandy clay; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 0.01m2) Fine (1-2mm) macropores, Dry; Weak consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 8.5 (Raupach); Few, very fine (0- 1mm) roots; 					
Morphological B22	Notes Many infilled channels in B2	2 and B23. CaCO3 is	s along old root cha	nnels.		
Observation No	otes					
Wilga Soil Profile	Class, Calcic Phase, Lucerne					

Wilga Soil Profile Class, Calcic Phase, Lucerne

Site Notes

Project Name:	Soils of the Lov	wer Macqua	arie Valley, New	South Wales	
Project Code: Agency Name:	Macquarie CSIRO Divisior	Site ID: of Soils (A		Observation ID:	1
0,		•	,		

Laboratory Test Results:

Depth	рН	1:5 EC		nangeable Ng	Cations K	Ex Na	changeable Acidity	CEC		ECEC		ESP
m		dS/m			R	Cmol (+)/k						%
0.1 - 0.15 0.3 - 0.35	6.3A 7.5A	0.094A 0.037A	4.9E	1.4	1.4	0.1				7.8D		
0.7 - 0.75 1.3 - 1.35	8.2A 8.9A	0.136A 0.17A	16.3E	8	0.4	0.1				24.8D		
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	article		nalys	is
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0.1 - 0.15 0.3 - 0.35							1.54 1.57		5A	39.5	33.	7 21.8
0.7 - 0.75 1.3 - 1.35							1.43 1.43		1.9A	18.8	41.	8 37.6

Depth	COLE		Gravimetric/Volumetric Water Contents					K sat	K unsat	
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar g - m3/m3	1 Bar 3	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 0.046A 0.047A 0.032A			0.18G 0.18G 0.25G 0.25G				0.07D 0.11D 0.13D 0.11D		

Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID: 339Observation 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)