Project Name: Project Code: Agency Name:	Soils of the Lower Macquar Macquarie Site ID: CSIRO Division of Soils (Ad	216 O	outh Wales bservation ID:	1		
Site Information Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.: Coology	N.J. McKenzie 16/06/85 Sheet No. : 8534 1:10000	Locality: Elevation: Rainfall: Runoff: Drainage:	No Data No Data Slow Imperfectly draine	d		
<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	No Data Lower-slope No Data % pndition (dry): Firm, Surface cru	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data			
	e, Minor or present (wind);					
Australian Soil C		Марріі	ng Unit:	GIN GIN AEOLIAN DEPOSITS		
ASC Confidence Confidence level	not specified	Great	oal Profile Form: Soil Group:	Gn4.13 N/A		
Vegetation:	:e: Complete clearing. Pasture, nat Tall Strata - Tussock grass, <0.	• •	Ū			
Surface Coarse						
Profile Morpho A1 0 - 0.22 r	n Dark reddish brown (5YR3/ Subangular blocky; Rough- macropores, Common (1-5	ped fabric; Common per 100mm2) Fine (1 es, Moderately moist	(1-5 per 100mm2) -2mm) macropores ; Firm consistence;	/ery fine (0.075-1mm) ;, Few (<1 per 0.01m2) Field pH 6 (Raupach); Many,		
B21 0.22 - 0.6	 2 - 0.63 m Reddish brown (5YR4/4-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated; Very few (0 - 2%), Calcareous, Medium (2 -6 mm), Nodules; Very few (0 - 2%), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 7 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Gradual, Smooth change to - 					
B22 0.63 - 1.3	Yellowish red (5YR4/6-Moist); ; Light clay; Moderate grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry Very firm consistence; Common cutans, 10-50% of ped faces or walls coated; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 8.5 (Raupach); Few, very fine (0-1mm) roots;					
Morphological	Notes					

Morphological Notes

Observation Notes

Mitchell Soil Profile Class, Moderately Drained Phase, Sheep compaction

Site Notes

Project Name:	Soils of the Low	er Macqua	rie Valley, New	South Wales	
Project Code: Agency Name:	Macquarie CSIRO Division	••	-	Observation ID:	1
• •		,	,		

Laboratory Test Results:

Depth	рН	1:5 EC C	Ex	changeable Mg	Cations K	Exchangeable Na Acidity	CEC	ECEC	ESP
m		dS/m	-			Cmol (+)/kg			%
0.1 - 0.15 0.3 - 0.35	5.6A 6.9A	0.101A 0.046A	5.4E	0.9	1.2	0.1		7.6D	
0.7 - 0.75 1.3 - 1.35	7.8A 8.7A	0.12A 0.313A	6.8E	6.3	0.3	1.3		14.7D	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	article	Size	Analysis
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt Clay
0.1 - 0.15 0.3 - 0.35							1.40 1.48		16.9A	35	17.8 30.3
0.7 - 0.75 1.3 - 1.35							1.49 1.53		13.9A	23	12.7 50.4

Depth	COLE		Gravimetric/Volumetric Water Contents							K unsat
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar g - m3/m3	1 Bar B	5 Bar	15 Bar	mm/h	mm/h
0.1 - 0.15 0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	0.017A 0.076A 0.049A 0.065A			0.18G 0.24G 0.22G 0.21G				0.08D 0.16D 0.15D 0.16D		

Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID: 216Observation 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)