Project Name: Project Code: Agency Name:	Soils of the Lower Macquarie Valley, New South Wales Macquarie Site ID: 330 Observation ID: 1 CSIRO Division of Soils (ACT)					
Date Desc.:0Map Ref.:SNorthing/Long.:6Easting/Lat.:5	I.J. McKenzie 1/08/85 sheet No. : 8434 1:10000 468900 AMG zone: 55 91000 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	No Data No Data Moderately rapid Well drained			
	Soil pit No Data	Conf. Sub. is Pare Substrate Materia				
Morph. Type: N Elem. Type: N Slope:	No Data /lid-slope No Data %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data			
Surface Soil Cone Erosion:	dition (dry): Hardsetting, Surf	face crust				
Soil Classification	<u>n</u>					
Australian Soil Clas N/A	ssification:	Маррі	ng Unit:	TRANGIE COWAL ALLUVIUM		
ASC Confidence: Confidence level not Site Disturbance:	t specified	Great	pal Profile Form: Soil Group: ivated at some stag	Gn3.12 N/A e		
Vegetation:			-	Described		
Surface Coarse F	Tall Strata - Tussock grass, <0.	.25m, Sparse. *Spec	ies includes - None	Recorded		
Profile Morpholog						
A11 0 - 0.08 m		5 per 100mm2) mac 5 per 0.01m2) Mediur	cropores, Few (<1 p m (2-5mm) macropo	er 100mm2) Medium (2-5mm) bres, Weak consistence; Field		
A12 0.08 - 0.28	Subangular blocky; Rough- macropores, Many (>5 per Medium (2-5mm) macropor	Dark reddish brown (5YR3/3-Moist); ; Light clay; Moderate 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, Moist; Weak consistence; Field pH 7.5 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Gradual, Smooth change to -				
B21 0.28 - 0.65	Reddish brown (5YR4/4-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 0.01m2) Medium (2-5mm) macropores, Moist; Firm consistence; Common cutans, 10-50% of ped faces or walls coated; Common cutans, 10-50% of ped faces or walls coated; Field pH 8 (Raupach); Common, very fine (0-1mm) roots; Diffuse, Smooth change to -					
B22 0.65 - 1.35	Polyhedral; Weak grade of 100mm2) Very fine (0.075- macropores, Few (<1 per 0.	Strong brown (7.5YR4/6-Moist); ; Light medium clay; Weak grade of structure, 10-20 mm, Polyhedral; Weak grade of structure, 10-20 mm, Cast; Rough-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 0.01m2) Medium (2-5mm) macropores, Moist; Weak consistence; Few cutans, <10% of ped faces or walls coated; Field pH 8 (Raupach); Common, very fine (0-1mm) roots;				
<u>Morphological No</u> A11	otes Many infilled channels in B h	nor. Same soil as or	n the beginning of T	ransect 1.		
Observation Note	•		0 000			

Observation Notes Wilga Soil Profile Class, Non-Calcic 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	СТ)		

Laboratory Test Results:

Depth	рН	1:5 EC		hangeable Mg	Cations K	Ex Na	changeable Acidity	CEC	I	ECEC	E	SP
m		dS/m	Ga	wig	ĸ	Cmol (+)/k					,	%
0.1 - 0.15 0.3 - 0.35	7.4A 8.1A	0.057A 0.047A	7.3E	1.5	1	0.3			1	10.1D		
0.7 - 0.75 1.3 - 1.35	8.3A 8.3A	0.044A 0.037A	14.9E	6.3	0.6	0.2				22D		
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle CS	Size A FS	nalysis Silt	
m	%	%	mg/kg	%	%	%	Mg/m3			%		-
0.1 - 0.15 0.3 - 0.35							1.53 1.58		12A	25	39	24.1
0.7 - 0.75 1.3 - 1.35							1.59 1.47		3.8A	15.6	41.5	39.1
Depth	COLE		Grav	/imetric/Vc	lumetric V	Vater Conte	nts		K sa	it k	(unsat	
-		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar 15	Bar				

m		Sat. 0.05 Bar	0.1 Баг 0.5 Баг g/g - m3/m3	i bar 5 b	ar 15 bar	mm/h	mm/h
0.1 - 0.15	0.025A		0.19G		0.09D		
0.3 - 0.35	0.052A		0.2G		0.14D		
0.7 - 0.75	0.043A		0.2G		0.14D		
1.3 - 1.35	0.029A		0.22G		0.12D		

Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID: 330Observation 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)