Project Name: **Soils of the Lower Macquarie Valley, New South Wales**
Project Code: **Macquarie** **Site ID:** **128** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By:	N.J. McKenzie	**Locality:**	
Date Desc.:	05/04/85	**Elevation:**	No Data
Map Ref.:	1:10000	**Rainfall:**	No Data
Northing/Long.:	6464784 AMG zone: 55	**Runoff:**	No Data
Easting/Lat.:	594567 Datum: AGD66	**Drainage:**	No Data

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	No Data

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	No Data
Morph. Type:	No Data	**Relief:**	No Data
Elem. Type:	No Data	**Slope Category:**	No Data
Slope:	%	**Aspect:**	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
N/A

Mapping Unit: TRANGIE
COWAL ALLUVIUM

Principal Profile Form: Gn4.12
Great Soil Group: N/A

ASC Confidence:
Confidence level not specified

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.37 m	Dark reddish brown (5YR3/3-Moist); ; Silty clay loam; Moderate grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Medium (2-5mm) macropores, Weak consistence; Field pH 7.5 (Raupach); Many, fine (1-2mm) roots; Gradual, Smooth change to -
B21	0.37 - 0.78 m	Reddish brown (5YR4/4-Moist); ; Light medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Medium (2-5mm) macropores, Firm consistence; Field pH 7.5 (Raupach); Common, fine (1-2mm) roots; Diffuse, Smooth change to -
B22	0.78 - 1.35 m	Yellowish red (5YR4/5-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

Byron Soil Profile Class

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0.1 - 0.15	7.2A	0.044A	1.7E	0.6	0.4	0			2.7D	
0.3 - 0.35	7.9A	0.029A								
0.7 - 0.75	8.1A	0.051A	7.4E	5.9	0.3	0.7			14.3D	
1.3 - 1.35	8.8A	0.048A								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0.1 - 0.15							1.46		4.5A	41.1	31.8	22.6
0.3 - 0.35							1.53					
0.7 - 0.75							1.66		3.6A	35.5	25.3	35.6
1.3 - 1.35							1.66					

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0.1 - 0.15	0.033A			0.19G				0.09D		
0.3 - 0.35	0.037A			0.17G				0.09D		
0.7 - 0.75	0.061A			0.17G				0.13D		
1.3 - 1.35	0.052A			0.17G				0.13D		

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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)