Project Name:	Soils of the Lo	ower Macqua	arie Vall	ey, New South Wales	
Project Code:	Macquarie	Site ID:	320	Observation ID:	1
Agency Name:	CSIRO Divisio	on of Soils (A	NCT)		

Site Informatio Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.: Geology ExposureType: Geol. Ref.:	n N.J. McKenzie 29/07/85 Sheet No. : 8434 1:10000 6467167 AMG zone: 55 588533 Datum: AGD66 Soil pit No Data	Locality: Elevation: Rainfall: Runoff: Drainage: Conf. Sub. is Pare Substrate Materia		ta
Land Form Rel/Slope Class: Morph. Type: Elem. Type: Slope: Surface Soil Co Erosion:	No Data Mid-slope No Data % Dndition (dry): Cracking, Surfac	Pattern Type: Relief: Slope Category: Aspect: ce crust	No Data No Data No Data No Data	
Soil Classificat	ion			
Australian Soil C	lassification:	Маррі	ng Unit:	OLD ALLUVIUM
N/A ASC Confidence Confidence level Site Disturbance Vegetation:		Great		MEANDER PLAIN Ug5.38 N/A
Surface Coarse	G	26-0.5m, Sparse. "Sp	ecies includes - inc	ne Recorded
Profile Morpho				
A1 0 - 0.2 m	Subangular blocky; Smooth	n-ped fabric; Commor per 100mm2) Fine (any, very fine (0-1mm	n (1-5 per 100mm2 I-2mm) macropore I) roots; Many, fine) Very fine (0.075-1mm) s, Moist; Strong consistence;
B21 0.2 - 0.5	blocky; Smooth-ped fabric; (0.075-1mm) macropores, per 100mm2) Medium (2-5i 50% of ped faces or walls o	Medium, (5 - 10) mm Common (1-5 per 100 mm) macropores, Mo coated; Very few (0 - 3 (Raupach); Common	a crack; Common (1 Dmm2) Fine (1-2mr ist; Strong consiste 2 %), Calcareous, , very fine (0-1mm)	1-5 per 100mm2) Very fine n) macropores, Common (1-5 ence; Common cutans, 10- Medium (2 -6 mm), Soft roots; Common, fine (1-2mm)
B22 0.5 - 1 m	blocky; Smooth-ped fabric; macropores, Moderately n walls coated; Common (10	Fine, (0 - 5) mm crac noist; Strong consiste - 20 %), Calcareous, se (6 - 20 mm), Nodul	ck; Few (<1 per 100 once; Common cuta Coarse (6 - 20 mn es; Field pH 9 (Rau	Omm2) Very fine (0.075-1mm) ans, 10-50% of ped faces or n), Nodules; Common (10 - 20 upach); Common, very fine (0-
B23 1 - 1.2 m	Smooth-ped fabric; Few (<	1 per 100mm2) Very Common cutans, 10- - 20 mm), Soft segre	fine (0.075-1mm) n 50% of ped faces o gations; Few (2 - 1	nacropores, Moderately or walls coated; Few (2 - 10 0 %), Manganiferous,

Morphological Notes B23 Similar to 319

Observation Notes

Buddah Soil Profile Class, Roadside as per 319 Site Notes

Project Name:	Soils of the Lov	wer Macqua	arie Valley, Ne	w South Wales	
Project Code:	Macquarie	Site ID:	320	Observation ID:	1
Agency Name:	CSIRO Divisior	n of Soils (A	NCT)		

Laboratory Test Results:

Depth	pН	1:5 EC	Ex Ca	changeable Mg	Cations K		nangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ja	Mg	ĸ	Cmol (+)/kg				%
0.1 - 0.15	7.4A	0.094A	1.5E	1.1	0.9	0.4			3.9D	
0.3 - 0.35 0.7 - 0.75	8.6A 9.3A	0.147A 0.436A	5.7E	10.6	0.5	3.9			20.7D	
1.3 - 1.35	9.2A	0.785A								
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle	Size Anal	/sis

m	%	С %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0.1 - 0.15 0.3 - 0.35							1.51 1.50		23.2A	36.7	13.1	27
0.7 - 0.75 1.3 - 1.35							1.55 1.58		15.2A	26.8	10.6	47.5

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 B g/g - m3/m3	Bar mm/h	mm/h		
0.1 - 0.15 0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	0.062A 0.069A 0.066A 0.068A	0.21G 0.0 0.23G 0.1 0.23G 0.1 0.21G 0.1	6D 6D			

Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID: 320Observation 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)