Project Name:	Soils of the Lo	ower Macqu	arie Vall	ey, New South Wales
Project Code: Agency Name:	Macquarie CSIRO Divisio	Site ID: on of Soils (/	101 (CT)	Observation ID: 1
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Desc. By: Date Desc. Map Ref.: Northing/Lat Geology	N.J. 21/0 Shee ong.: 6458	McKenzie 2/85 et No. : 8533 1:100000 3400 AMG zone: 55 000 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	No Data No Data No Data Well drair	ned				
ExposureT Geol. Ref.:		pit Data	Conf. Sub. is Pare Substrate Material		at.: No Data No Data				
Land Forr Rel/Slope C Morph. Typ Elem. Type Slope: Surface S Erosion:	Class: No [e: No [: No [%	Data Data	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data					
Soil Class	ification								
Australian N/A		ication:	Маррі	ng Unit:		OLD ALLUVIUM MEANDER PLAIN			
Principal Profile Form: Dr2.13 ASC Confidence: Great Soil Group: N/A Confidence level not specified Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage Vegetation: Vegetation:									
Surface C		⁻ all Strata - Hummock grass, 0. gments:	20 0.0m, . Opeoles	includes - i					
Profile Mo	rphology								
A11 0-	0.2 m	Dark reddish brown (5YR3/4 mm, Subangular blocky; Ear ManyGradual, Smooth chan	rthy fabric; Very weal						
A2 0.2	2 - 0.45 m	Yellowish red (5YR4/8-Moist grade of structure, 20-50 mn pH 6.5 (Raupach); Common	n, Subangular blocky	/; Earthy fa					
B21 0.4	l5 - 0.8 m	Yellowish red (5YR4/6-Moist); ; Sandy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Weak consistence; 0-2%, medium gravelly, 6-20mm, subangular, Detrital sedimentary rock (unidentified), coarse fragments; Common cutans, 10-50% of ped faces or walls coated; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 8 (Raupach); CommonGradual, Smooth change to -							
B22 0.8	3 - 1.3 m	Yellowish red (5YR4/6-Moist); ; Medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Weak consistence; Common cutans, 10-50% of ped faces or walls coated; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 8.5 (Raupach); Few							
Morpholo	gical Note	<u>s</u>							

Observation Notes Mitchell Soil Profile Class, Well Drained Phase Site Notes

Project Name:	Soils of the Low	ver Macqua	rie Valley, New	South Wales	
Project Code:	Macquarie		101	Observation ID:	1
Agency Name:	CSIRO Division	of Soils (A	CT)		

Laboratory Test Results:

Depth	рН	1:5 EC		hangeable Mq	Cations K	E: Na	xchangeable Acidity	CEC	:	ECEC	ESP	
m		dS/m	Ga	wig	ĸ	Cmol (+)/					%	
0.1 - 0.15 0.3 - 0.35	6.6A 7.1A	0.046A 0.029A	0.6E	0.1	1	0.2				1.9D		
0.7 - 0.75 1.3 - 1.35	8.1A 8.6A	0.042A 0.11A	6.5E	5.5	0.6	0.2				12.8D		
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk			Size Ar		
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt Clay	
0.1 - 0.15 0.3 - 0.35							1.59 1.71		45.9A	30.8	9.6 13.7	
0.7 - 0.75 1.3 - 1.35							1.66 1.54		29.8A	20.2	7.5 42.5	
Depth	COLE		Grav	vimetric/Vc	olumetric V	ater Conte	ents		Ks	at K	unsat	
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar g - m3/m3	1 Bar 3	5 Bar 1	5 Bar	mm	/h	mm/h	
0.1 - 0.15 0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	0.031/ 0.002/ 0.042/ 0.047/	A A		0.14G 0.12G 0.17G 0.21G			C).05D).05D).13D).14D				

Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID:101Observation 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)
XRD_C_II	Illite - X-Ray Diffraction
XRD_C_Kt	Kaolinite - X-Ray Diffraction